





# NATIONAL INSTITUTES OF HEALTH

## Research Grants

FISCAL YEAR 1975 FUNDS



U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE  
Public Health Service      National Institutes of Health

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Public Health Service      National Institutes of Health  
DHEW Publication No. (NIH) 76-1042

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**NATIONAL INSTITUTES OF HEALTH**  
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U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE  
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## **PREFACE**

The mission of the National Institutes of Health is to protect and improve the health of the American people. To achieve this goal, NIH conducts biomedical research in its own laboratories; provides grants to nonprofit organizations and academic institutions for research; provides grants for the training of research investigators; supports biomedical communications through programs and activities of the National Library of Medicine; and provides grants for facilities and other resources required for cancer research. In addition, the research contract mechanism is used under appropriate circumstances.

Listings of NIH grants and research contracts are prepared annually by the Division of Research Grants. This book presents a listing of research grants awarded from fiscal year 1975 funds.



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## INTRODUCTION

### Coverage

This volume presents the research grants (including the research career program awards) awarded by the National Institutes of Health. Research grants awarded by other constituent agencies of the Public Health Service are not included in this volume.

The awards shown in this volume are those made from fiscal year 1975 funds, as well as a small number from fiscal year 1973 released funds, which were obligated in fiscal year 1975. The preponderance of fiscal year 1973 released funds were obligated in fiscal year 1974 and were shown in the publication for that year. Awards made from fiscal year 1973 released funds are designated as fiscal year 1973/75.

### Appendix

Organizations appearing in more than one geographical location, or requiring a clarifying comment, are listed in the Appendix in alphabetic sequence.



## TECHNICAL NOTE

### Organization Identification

In the presentation of grants made from fiscal year 1975 funds, emphasis is placed on listing the organizations in the city and State of the unit in which professional responsibility of the principal investigator lies. Study of the structure of grantee organizations in the United States (primarily universities and colleges, and State departments of mental health or their equivalents) has led to the following qualifications in the listing of their names:

1. Within a given city, if an institution of higher education is comprised of two or more campuses reporting directly to the central administration, each campus is listed separately.
2. In the listing of governmental organizations, Federal as well as non-Federal, the name of the parent department precedes that of the individual component, and the organization is listed as many times within a given city as there are components of the organization receiving grants.
3. If a foundation has been established for the purpose of receiving and administering funds for grants, the name and location of the organization having professional responsibility for the grant are shown rather than the name and location of the foundation. The name of the foundation is indicated in the appendix if it differs materially from the name of the organization.
4. If an association receiving a grant has a fixed national headquarters, the grants are listed at the headquarters location. If however, the association does not have a fixed headquarters, the grants are listed in the city shown for this organization in the Encyclopedia of Associations. These qualifications do not apply to foreign institutions or to some domestic organizations, because a systematic study of their organizational structure has not been made. Organizations which require a clarifying comment, or which appear in more than one geographical location are listed alphabetically in the appendix.

### Supplemental Awards

Only grants made from fiscal year 1975 funds and from fiscal year 1973/75 released funds are listed in this publication. Fiscal year 1975 supplemental awards to fiscal year 1975 grants, or fiscal year 1973/75 supplemental awards to fiscal year 1975 grants, or to fiscal year 1973/75 grants, are combined with and reported under the parent grant. However, supplemental grants awarded from fiscal year 1975 funds, or from fiscal year 1973/75 funds, to a parent grant awarded in a previous fiscal year are shown separately; if two or more such supplements were made during fiscal year 1975, these supplements are combined.





## ABBREVIATIONS

The NIH component supporting a grant is indicated by the code letters in the left-hand column. These code letters form part of the identification of the grant number.

<i>Code for supporting component</i>		<i>Abbreviation of supporting component</i>
	Institutes and Research Divisions.....	IRD
AG	National Institute on Aging.....	NIA
AI	National Institute of Allergy and Infectious Diseases.....	NIAID
AM	National Institute of Arthritis, Metabolism, and Digestive Diseases.....	NIAMDD
CA	National Cancer Institute.....	NCI
DE	National Institute of Dental Research.....	NIDR
ES	National Institute of Environmental Health Sciences.....	NIEHS
EY	National Eye Institute.....	NEI
GM	National Institute of General Medical Sciences...	NIGMS
HD	National Institute of Child Health and Human Development.....	NICHD
HL	National Heart and Lung Institute.....	NHLI
NS	National Institute of Neurological and Communicative Disorders and Stroke.....	NINCDS
RR	Division of Research Resources.....	DRR
TW	Fogarty International Center.....	FIC
LM	National Library of Medicine.....	NLM
	Department of Health, Education, and Welfare.....	DHEW
	Public Health Service.....	PHS
	National Institutes of Health.....	NIH

The initial review groups and study sections giving technical review to applications are indicated by alphabetical code under the column headed "IRG" in the listing of research grants and awards (tables 2 and 3). A listing of initial review groups by code follows.

### Initial Review Groups

AFY...	Applied Physiology and Bioengineering
AID...	NIAID Training Committee
AIRC..	NIAID Allergy and Immunology Research Committee
ALY...	Allergy and Immunology
AMK...	NIAMDD Research Career Program Committee
AMP...	Arthritis and Metabolic Diseases Program Project Committee
AR....	Animal Resources Committee

BBCA.. Biophysics and Biophysical Chemistry A  
 BBCE.. Biophysics and Biophysical Chemistry B  
 BCM... Biomedical Communications  
 BIO... Biochemistry  
 BLR... Biomedical Library Review Committee  
 BM.... Bacteriology and Mycology  
 BP.... Bladder-Prostate Cancer Advisory Committee  
 CAK... Cancer Special Program Advisory Committee  
 CAP... Cancer Research Center Review Committee  
 CBY... Cell Biology  
 CCG... Cancer Control Grants Review Committee  
 CCI... Cancer Clinical Investigation Review Committee  
 CDC... Communicable Disease Control  
 CDR... Communicative Disorders Review Committee  
 CEC... Clinical Cancer Education Committee  
 CLR... DRR General Clinical Research Center Committee  
 CMS... Communicative Sciences  
 COM... Computer and Biomathematical Sciences  
 CPR... Clinical Projects Research Review Committee  
 CTY... Molecular Cytology  
 CVA... Cardiovascular and Pulmonary  
 CVB... Cardiovascular and Renal  
 DBR... Developmental Behavioral Sciences  
 DEN... Oral Biology and Medicine  
 DEP... NIDR Program Project Committee  
 DER... NIAMDD Dermatology Training Grants Committee  
 DSR... Dental Research Institute Review Committee  
 DTL... NIDR Dental Training Committee  
 EDC... Epidemiology and Disease Control  
 END... Endocrinology  
 ESTC.. Environmental Sciences Training Committee  
 ET.... Experimental Therapeutics  
 EXP... Experimental Psychology  
 GD.... Growth and Development Training Review Committee  
 GEN... Genetics  
 GIN... NIAMDD Gastroenterology and Nutrition Training Committee  
 GMA... General Medicine A  
 GMB... General Medicine B  
 GMK... NIGMS Research Career Award Committee  
 GMP... NIGMS Program Project Committee  
 GRS... General Research Support Program Advisory Committee  
 HBP... NHLI National High Blood Pressure Education Research Program  
           Committee  
 HDAG.. Adult Development and Aging Research and Training Committee  
 HDGD.. Growth and Development Research and Training Committee  
 HDMC.. Maternal and Child Health Research Committee  
 HDMR.. Mental Retardation Research and Training Committee  
 HDPB.. Perinatal Biology and Infant Mortality  
 HDPR.. Population Research and Training Committee  
 HED... Human Embryology and Development  
 HEM... Hematology  
 HEP... NHLI Program Project Committee  
 HEPA.. Heart Program Project Committee A  
 HLS... History of the Life Sciences  
 HT.... NHLI Heart Training Committee  
 HTA... NHLI Heart Training Committee A  
 IMB... Immunobiology  
 JP.... NIMH Juvenile Problems Committee  
 LB.... Colon-Rectum Cancer Advisory Committee

MBC... Microbial Chemistry  
 MBY... Molecular Biology  
 MCHA... Medicinal Chemistry A  
 MCHB... Medicinal Chemistry B  
 MET... Metabolism  
 MP... Metropolitan Mental Health Problems Committee  
 MSM... NIMH Small Grants  
 NBPA... Neurological Disorders Program Project Review Committee  
 NCR... No committee review  
 NEUA... Neurology A  
 NEUB... Neurology B  
 NP... Neuropsychology Research Committee  
 NSPA... Neurological Disorders Program Project A Review Committee  
 NSPB... Neurological Disorders Program Project B Review Committee  
 NSRA... NINCDS Neurological Sciences Research A Training Committee  
 NSRB... NINCDS Neurological Sciences Research B Training Committee  
 NSS... No initial review group  
 NTN... Nutrition  
 OEM... Oral Biology and Medicine  
 PBC... Pathobiological Chemistry  
 PC... Physiological Chemistry  
 PCR... Personality and Cognition Research Committee  
 PHR... Public Health Review Committee  
 PHRA... Pharmacology  
 PHRB... Pharmacology B  
 PHY... Physiology  
 PME... Advisory Committee on Primate Research Centers  
 POP... Population Research  
 PPR... Preclinical Psychopharmacology Research Committee  
 PR... Primate Research  
 PTHA... Pathology A  
 PTHB... Pathology B  
 PTR... Pharmacology--Toxicology Review Committee  
 PUL... Pulmonary Training Committee  
 RAD... Radiation  
 REB... Reproductive Biology  
 RRT... Radiological Health Research and Training Review Committee  
 SGYA... Surgery A  
 SGYB... Surgery B  
 SOH... Safety and Occupational Health  
 SRC... Special Review Committee  
 SSS... Special Study Section  
 STC... Special Training Review Committee  
 SUP... Suicide Prevention Committee  
 TEC... Clinical Trials Review Committee  
 TMP... Tropical Medicine and Parasitology  
 TOX... Toxicology  
 VIS... Visual Sciences  
 VISA... Visual Sciences A  
 VISB... Visual Sciences B  
 VR... Virology  
 VSN... NEI Vision Program Committee  
 YIP... NHLI Pulmonary Young Investigator Grant Committee

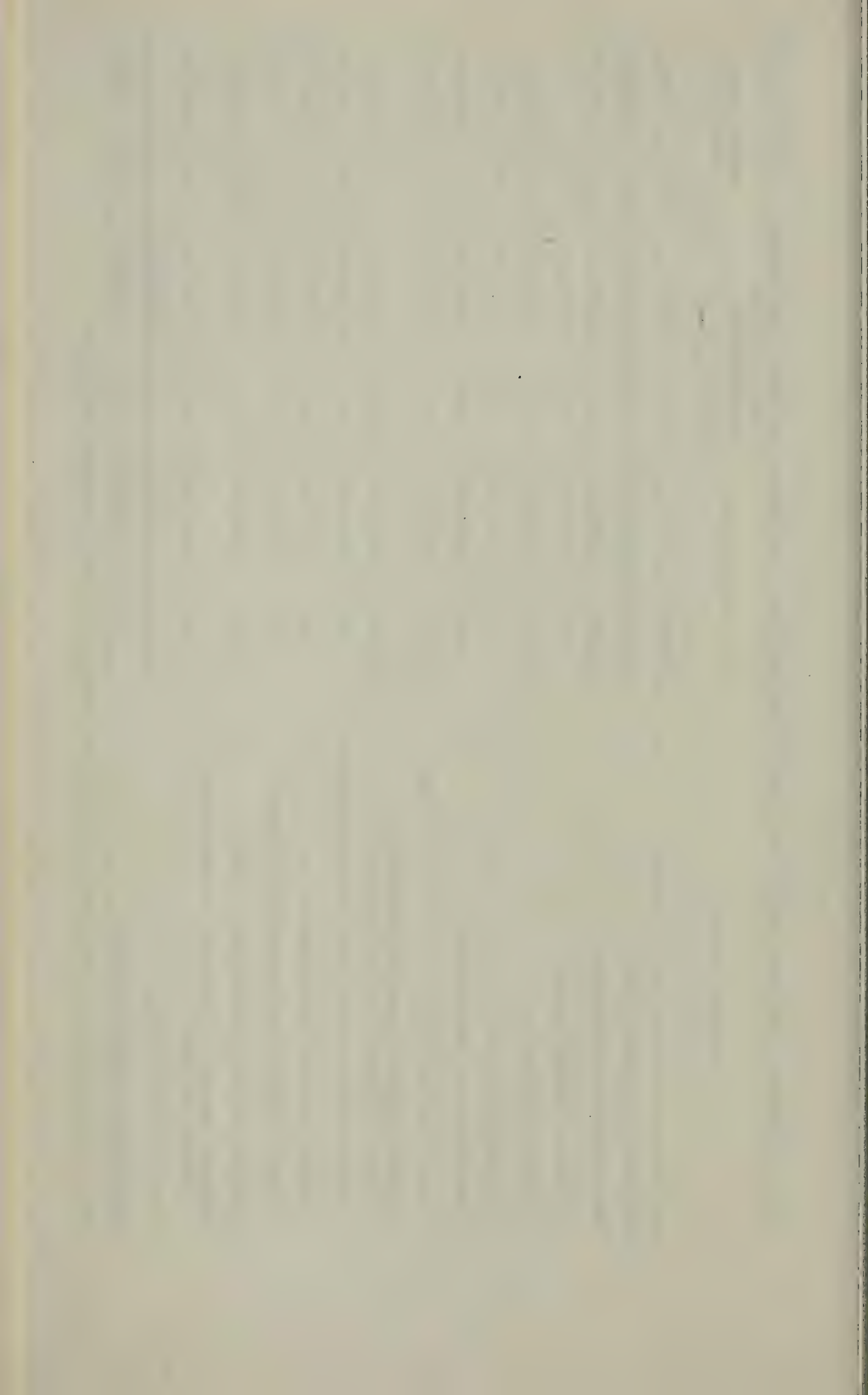




TABLE 1.--SUMMARY OF NATIONAL INSTITUTES OF HEALTH RESEARCH GRANTS AND AWARDS, BY SUPPORTING COMPONENT, FISCAL YEAR 1975

Supporting component	All research grants		Research projects, program projects, program centers, and general support		Research career program awards	
	Number	Dollars	Number	Dollars	Number	Dollars
Total National Institutes of Health.....	14,562	1,148,039,937	13,454	1,120,952,839	1,108	27,087,098
Institutes and Research Divisions.....	14,502	1,145,991,457	13,398	1,119,057,176	1,104	26,934,281
Division of Research Resources.....	761	120,934,617	761	120,934,617		
National Cancer Institute.....	2,695	274,028,528	2,575	271,222,276	120	2,806,252
National Eye Institute.....	570	29,915,306	534	29,147,380	36	767,926
National Heart and Lung Institute.....	1,882	182,058,111	1,715	177,280,084	167	4,778,027
National Institute of Allergy and Infectious Diseases.....	1,242	69,581,019	1,143	67,067,759	99	2,513,260
National Institute of Arthritis, Metabolism, and Digestive Diseases.....	2,081	122,082,398	1,914	117,979,684	167	4,102,714
National Institute of Child Health and Human Development.....	1,260	84,091,324	1,182	82,179,991	78	1,911,333
National Institute of Dental Research.....	366	25,342,561	341	24,751,496	25	591,065
National Institute of Environmental Health Sciences.....	225	18,448,943	214	18,217,483	11	231,460
National Institute of General Medical Sciences.....	2,066	127,940,799	1,767	120,938,425	299	7,002,374
National Institute of Neurological and Communicative Disorders and Stroke.....	1,329	89,577,633	1,227	87,347,763	102	2,229,870
National Institute on Aging.....	25	1,990,218	25	1,990,218		
Total National Library of Medicine.....	60	2,048,480	56	1,895,663	4	152,817

NOTE: For information as to how this table was prepared, see Introduction, p. vii, and Technical Note, p. ix.





**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975**

Principal investigator	Project title	IRG	Grant number	Dollars
GRAND TOTAL, 13,454 GRANTS				120,952,839
UNITED STATES,* 13,326 GRANTS				117,184,678
OTHER COUNTRIES, 128 GRANTS				3,768,161

## UNITED STATES

### ALABAMA

#### AUBURN

##### AUBURN UNIVERSITY ZIP CODE 36830

BECKETT, SIDNEY D	HEART CONDUCTION DEFECTS	CVB	3R01 HL12811-05S1	1,245
BECKETT, SIDNEY D	HEART CONDUCTION DEFECTS	CVB	5R01 HL12811-06	53,902
BERGER, ROBERT S	CHEMISTRY OF VECTOR PHEROMONES	TMP	5R01 AI10174-05	33,513
ORGANIZATION TOTAL	3		88,660	

#### BIRMINGHAM

##### SOUTHERN RESEARCH INSTITUTE ZIP CODE 35205

GREENE, MICHAEL E	NONINVASIVE INTRAOCULAR PRESSURE MONITORING SYSTEM	VISA	1R01 EY01478-01	29,682
GRISWOLD, DANIEL P, JR	BIOLOGY AND TREATMENT OF MURINE COLON CARCINOMA	SRC	1R26 CA17303-01	133,756
LLOYD, ROGER A	LEFT VENTRICULAR VOLUME MEASUREMENT BY THERMODILUTION	CVA	5R01 HL16644-02	49,943
ORGANIZATION TOTAL	3		213,381	

##### UNIVERSITY OF ALABAMA IN BIRMINGHAM ZIP CODE 35294

ACTON, RONALD T	MEMBRANE SPECIFICITIES RELATED TO NEOPLASIA	ALY	5R01 CA15338-02	38,792
ALFORD, CHARLES A, JR	PATHOGENESIS OF INFECTION IN HUMAN MALDEVELOPMENT	VR	5R01 HD01687-10	64,443
ANDREOLI, THOMAS E	TRANSPORT PROCESSES IN LIPID MEMBRANES AND RENAL TUBULES	PHRA	2R01 AM14873-06	75,213
BAKER, HENRY J	HUMAN GANGLIOSIDOSIS	NEUB	5R01 NS10967-03	114,906
BENNETT, J CLAUDE	STUDIES ON GAMMA GLOBULIN STRUCTURE	ALY	5R01 AI09153-10	48,763
BENNETT, J CLAUDE	COORDINATED STUDIES IN RHEUMATIC DISEASES	AMP	5P01 AM03555-16	181,861
BOSHELL, BURIS R	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	SSS	5R01 AM06744-13	63,578
BRASCHO, DONN J	CANCER EDUCATION GRANT	CEC	1R25 CA17965-01	110,452
BUGG, CHARLES E	CRYSTAL STRUCTURES OF PURINE AND PYRIMIDINE ANALOGS	BBCA	2R01 CA12159-04	38,449
BUTLER, WILLIAM T	STUDY OF PHOSPHOPROTEINS OF CALCIFIED TISSUES	DEN	5R01 DE03636-03	29,042
BUTLER, WILLIAM T	BIOCHEMISTRY OF PERIODONTAL TISSUES	DEN	5R01 DE03864-02	55,099
BUTTERWORTH, C E, JR	FOLIC ACID METABOLISM IN MEGALOBLASTIC ANEMIA	HEM	5R01 AM08644-11	46,855
CAIN, STEPHEN M	SURVIVAL VALUE OF PHYSIOLOGIC RESPONSES TO HYPOXIA	CVA	2R01 HL14693-04	54,755
CASSELL, GAIL H	CONTROL OF RESPIRATORY MYOPLASMOSIS	SRC	1R01 RR00959-01	52,167
CHEUNG, HERBERT C	MUSCLE CONTRACTION/MACROMOLECULAR CONFORMATION	BBCA	5R01 AM14589-05	30,785
COMPANS, RICHARD W	INFLUENZA VIRUS STRUCTURE, BIOSYNTHESIS AND ASSEMBLY	VR	1R01 AI12680-01	74,995
COMPANS, RICHARD W	RNA TUMOR VIRUS STRUCTURE AND BIOGENESIS	VR	7R01 CA18611-01	35,416

\*Includes Puerto Rico.

NOTE 1.—For information as to how this table was prepared, see Technical Note, p. ix.

NOTE 2.—Grants are listed according to the State or country and city of the component part of the organization professionally responsible for the work (see Technical Note, p. ix). If an organization appears in more than one geographic location or requires a clarifying comment, appropriate annotations have been made in the Appendix.

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ALABAMA—Continued</b>				
COOPER, MAX D.	CELL DIFFERENTIATION STUDIES IN CANCER IMMUNOBIOLOGY	CAK	1P01 CA16673-01	346,721
CURTISS, ROY, III	EXTRACHROMOSOMAL ELEMENTS IN GRAM NEGATIVE BACTERIA	MBC	5R01 AI11456-03	29,978
DURANT, JOHN R.	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	CAP	2P02 CA13148-04	1,757,265
FISCHER, THEODORE E.	RESEARCH OF POLYURETHANES FOR MAXILLOFACIAL USE	DEN	1R01 DE04138-01	65,275
FLETCHER, SAMUEL G.	PHYSIOLOGY OF SPEECH ARTICULATION PROCESSES & DISORDERS	CDR	1P15 NS11852-01A1	130,333
FULLMER, HAROLD W.	INSTITUTE OF DENTAL RESEARCH	DSR	5P13 DE02670-09	1,353,524
GOODALL, MARCUS C.	ION CHANNELS AND NEUROTRANSMITTERS	BBCB	9R01 NS12279-04A1	31,949
HALSEY, JAMES H, JR.	ROLE OF ASPIRIN IN CEREBRAL ISCHEMIA	TEC	5R01 HL14338-03	32,833
HALSEY, JAMES H, JR.	SUPPORT FOR CEREBROVASCULAR DISEASE RESEARCH CENTER	NSPA	5P01 NS08802-06	246,376
HALSEY, JAMES H, JR.	STROKE ACUTE CARE RESEARCH UNIT	NSPA	5P17 NS11109-03	60,131
HICKEY, TERRY L.	DEVELOPMENT OF THE RETINOGENICULATE SYSTEM	VISB	1R01 EY01338-01A1	23,128
HIRAMOTO, RAYMOND N.	A MATHEMATICAL MODEL FOR QUANTITATION OF CANCER CELLS	ALY	5R01 CA14125-02	37,389
HIRSCHOWITZ, BASIL I.	VAGAL CONTROL OF GASTRIC SECRETION	GMA	5R01 AM09260-10	61,638
HO, KANG-JEY	HUMAN ARTERIOSCLEROSIS WITH COMPARATIVE STUDIES	MET	3R01 HL13612-04S1	2,948
HURST, ROBERT E.	HIGH RESOLUTION SEPARATIONS OF GLYCOSAMINOGLYCANS	PC	5R01 AM17535-02	32,502
JACKSON, RAYMOND J.	ADENOSINE METABOLISM IN LYMPHOCYTES	BIO	1R01 CA17057-01	58,686
JAMES, THOMAS N.	MECHANISMS OF CARDIOVASCULAR DISEASE	HEP	5P01 HL11310-09	2,137,654
JOHNSTON, RICHARD B, JR.	MECHANISMS OF RESISTANCE TO BACTERIAL INFECTION	BM	2R01 AM10286-04	38,709
KIELY, DONALD E.	CHEMICAL STUDIES RELATED TO CYCLITOL BIOSYNTHESIS	MCHA	2R01 GM19252-07	42,936
KOCHAKIAN, CHARLES D.	MECHANISMS OF ANDROGEN ACTIONS	END	5R01 AM11060-18	41,764
LAMON, EDDIE W.	THE IMMUNE RESPONSE TO VIRALLY DETERMINED TUMOR ANTIGENS	IMB	1R01 CA17273-01	47,851
LAWTON, ALEXANDER R, III	DIFFERENTIATION OF B-LYMPHOCYTES	IMB	5R01 AI11502-03	28,047
LEBOWITZ, JACOB	CIRCULAR DNA-IMPLICATIONS FOR CANCER & DRUG RESISTANCE	BBCA	1R01 CA17077-01	45,535
LEVENE, RALPH Z.	PATHOGENESIS OF PRIMARY OPEN ANGLE GLAUCOMA	SSS	7R01 EY01536-01	117,250
LINDSEY, J RUSSELL	LABORATORY ANIMAL RESOURCE FOR BIOMEDICAL RESEARCH	AR	3P06 RR00463-06S1	8,090
LINDSEY, J RUSSELL	LABORATORY ANIMAL RESOURCE FOR BIOMEDICAL RESEARCH	SRC	2P06 RR00463-07	93,868
MARTINEZ, MARIO G.	CLINICAL CANCER EDUCATION PROGRAM (DENTAL)	CEC	1R25 CA17934-01	26,411
MC CALLUM, CHARLES A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05300-14	168,123
MC GHEE, JERRY R.	STUDIES ON EFFECTIVE CARIES IMMUNITY	DEN	1R01 DE04217-01	69,715
MESTECKY, JIRI F.	J CHAIN OF HUMAN PATHOLOGIC IMMUNOGLOBULINS	ALY	2R01 AI10854-04	65,300
NAVAR, LUIS G.	REGULATION OF RENAL HEMODYNAMICS	CVA	7R01 HL18426-01	35,144
OMURA, GEORGE A.	SOUTHEASTERN CANCER STUDY GROUP	CCI	3R10 CA03013-18S1	22,181
OMURA, GEORGE A.	SOUTHEASTERN CANCER STUDY GROUP	CCI	2R10 CA03013-19	79,884
OYSTER, CLYDE W.	NEUROPHYSIOLOGY OF OPTOKINETIC NYSTAGMUS	VISB	2R01 EY00771-04	38,766
PITTMAN, JAMES A, JR.	GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00032-15	440,395
PITTMAN, JAMES A, JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05349-14	255,345
PRETLOW, THOMAS G.	CHEMICAL CARCINOGENESIS IN VITRO	PTHB	5R01 CA15089-02	55,468
PRETLOW, THOMAS G.	CARCINOMA OF THE PROSTATE	SRC	5R26 CA16430-02	33,134
PRETLOW, THOMAS G.	CARCINOMA OF THE COLON	SRC	5R26 CA16764-02	55,978
RACKLEY, CHARLES E.	STUDY OF ISCHEMIC HEART DISEASE	SRC	1P17 HL17667-01	894,275
REDDY, WILLIAM J.	MECHANISM OF ACTION OF INSULIN	MET	2R01 AM15235-05	60,454
REHM, WARREN S.	FLUID AND ELECTROLYTE TRANSPORT IN THE CORNEA	VISA	5R01 EY00456-07	34,039
REYNOLDS, DAVID W.	HERPES VIRUS INFECTIONS IN HIGH RISK CANCER GROUPS	VR	1R01 CA16424-01	56,195
SACHS, GEORGE.	ENZYMATIC BASIS OF ACID SECRETION	PHY	5R01 AM15878-03	58,301
SACHS, GEORGE.	CHARACTERISTICS OF COLONIC CANCER MEMBRANES	SRC	1R26 CA16722-01A1	63,980
SACHS, GEORGE.	TRANSPORT CHANGES IN NEOPLASIA	PHY	1R01 CA16877-01A1	35,028
SCHNEIDER, LEON H.	STUDY OF SALIVARY GLAND STRUCTURE AND FUNCTION	PHY	5R01 DE02110-11	70,356
SCHROENLOHER, RALPH E.	STRUCTURE AND FUNCTION OF IMMUNOGLOBULINS	ALY	2R01 AI10664-10	42,230
SCHUTZBACH, JOHN S.	THE BIOSYNTHESIS OF CELL ENVELOPE GLYCOPROTEINS	MBY	1R01 CA16777-01	63,116
SHINGLETON, HUGH M.	GYNECOLOGIC ONCOLOGY GROUP	CCI	5R10 CA12484-05	44,040
SHIOTA, TETSUO	PTERINS IN CLINICAL PATIENTS	MET	5R01 AM16622-03	40,021
SHIOTA, TETSUO	THE BIOSYNTHESIS AND REGULATION OF PTERIDINE COENZYMES	PC	1R01 CA16976-01	16,655
SPARKS, DAVID L.	EYE MOVEMENT CONTROL: THE ROLE OF BRAIN STEM NEURONS	VISB	5R01 EY01189-03	28,685
SPENNEY, JERRY G.	CONDUCTANCE PATHWAYS IN ACUTE GASTRODUODENAL INJURY	PHY	5R01 AM17315-02	29,898
WEST, SEYMOUR S.	AUTOMATION OF ULTRAMICROANALYSES OF MACROMOLECULES	SSS	5P01 GM18252-05	234,419
WHITE, WILLIAM E, JR.	CARCINOGENESIS, MUTAGENESIS, AND PHOTO-LABELING OF DNA	ET	1R01 CA17394-01	27,515
WOLCOTT, R MICHAEL	CELL MEMBRANE ALTERATIONS ASSOCIATED WITH MALIGNANCY	ALY	1R01 CA16322-01	54,870
WOLCOTT, R MICHAEL	EFFECT OF CADMIUM TOXICITY ON THE IMMUNE SYSTEM	TOX	5R01 ES00836-03	37,873
YIELDING, K LEMONE	DNA REPAIR AND COLON CANCER	SRC	1R26 CA16376-01A1	47,400
YIELDING, K LEMONE	DNA REPAIR MECHANISMS: REGULATION AND CANCER RELEVANCE	BIO	1R01 CA17629-01	56,915

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ALABAMA—Continued</b>				
ORGANIZATION TOTAL	77	11,330,060		
<b>HUNTSVILLE</b>				
<b>HUNTSVILLE HOSPITAL</b>	<b>ZIP CODE 35801</b>			
HOWIE, VIRGIL M.....	THE IMMUNOLOGY OF RECURRENT OTITIS MEDIA IN CHILDREN.....	BM	2R01 AI10838-03	34,880
ORGANIZATION TOTAL	1	34,880		
<b>OAKWOOD COLLEGE</b>	<b>ZIP CODE 35806</b>			
COOPER, EMERSON A.....	BIOMEDICAL RESEARCH PROGRAM FOR OAKWOOD COLLEGE.....	GRS	5S06 RR08048-04	31,354
ORGANIZATION TOTAL	1	31,354		
<b>MOBILE</b>				
<b>UNIVERSITY OF SOUTH ALABAMA</b>	<b>ZIP CODE 36688</b>			
BAUGH, CHARLES M.....	CANCER CHEMOTHERAPY: GAMMAGLUTAMATES OF METHOTREXATE....	ET	5R01 CA16048-02	27,247
BLACKBURN, WILL R.....	LUNG GROWTH IN VIVO AND IN VITRO: HORMONAL INFLUENCES.....	HED	5R01 HL17328-02	46,890
DONOVAN, ARTHUR J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05774-01	49,245
FARNELL, DANIEL R.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	AR	5P06 RR00834-02	17,583
GLENN, THOMAS M.....	PHARMACOLOGIC STUDIES OF CIRCULATORY SHOCK.....	PHRA	5R01 GM21235-02	29,697
GORDON, ALLEN R.....	REGULATION OF TENSION IN SMOOTH MUSCLE.....	PHY	1R01 AM18415-01	52,653
HUGGINS, CLYDE G.....	BIOCHEMISTRY OF THE ANGIOTENSIN I CONVERTING ENZYME.....	GMB	5R01 HL15384-03	42,561
HUGHES, EDWIN R.....	STUDY OF MANGANESE DEFICIENCY AND LYSOSOMAL FUNCTION.....	NTN	5R01 AM17550-02	32,314
HURST, MAX W.....	CARDIOVASCULAR PHOSPHOINOSITIDE METABOLISM.....	MET	5R01 HL15567-02	24,650
KREISBERG, ROBERT A.....	GLUCONEOGENESIS IN MAN IN HEALTH AND DISEASE.....	MET	5R01 AM17345-02	38,470
MORGAN, PAUL H.....	ACTIVATION OF THE FIRST COMPONENT OF COMPLEMENT.....	ALY	5R01 AI11527-02	27,218
MORTILLARO, NICHOLAS A.....	INTERACTIONS OF THE INTESTINAL STARLING FORCES.....	PHY	5R01 AM17616-02	29,350
PETERSON, RAYMOND D.....	ROLE OF THE PITUITARY IN EXPERIMENTAL LEUKEMOGENESIS.....	PTHB	1R01 CA17819-01	43,604
ORGANIZATION TOTAL	13	461,482		
<b>MONTGOMERY</b>				
<b>ALABAMA STATE UNIVERSITY</b>	<b>ZIP CODE 36104</b>			
OLIVIERE, JAMES.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08098-03	49,290
ORGANIZATION TOTAL	1	49,290		
<b>TALLADEGA</b>				
<b>TALLADEGA COLLEGE</b>	<b>ZIP CODE 35160</b>			
BACON, ARTHUR L.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08105-02	84,625
ORGANIZATION TOTAL	1	84,625		
<b>TUSCALOOSA</b>				
<b>STILLMAN COLLEGE</b>	<b>ZIP CODE 35401</b>			
SINGH, JARNAIL.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08021-03	69,725
ORGANIZATION TOTAL	1	69,725		
<b>TUSKEGEE INSTITUTE</b>				
<b>TUSKEGEE INSTITUTE</b>	<b>ZIP CODE 36088</b>			
BOWIE, WALTER C.....	MOVEMENT OF THE MITRAL VALVE.....	CVB	3R01 HL08258-10S1	3,729
BOWIE, WALTER C.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05572-08	45,108
HENDERSON, JAMES H.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08091-03	259,014
JONES, WILLIAM O.....	DEVELOPMENT OF A CENTRALIZED ANIMAL RESOURCE FACILITY.....	AR	5P06 RR00878-02	35,320
SETTLER, SHERIDAN H, JR.....	CULTURE OF SUSPECTED VIRUSES IN HUMAN OCULAR DISEASE.....	VR	1R01 EY01173-01A1	35,998
SIDDIQUE, IRTAZA H.....	ENDOTOXIN-LIKE PROPERTIES OF LISTERIA MONOCYTOGENES.....	BM	5R01 AI08844-06	25,214
ORGANIZATION TOTAL	6	404,383		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ALABAMA—Continued</b>				
<b>UNIVERSITY</b>				
<b>UNIVERSITY OF ALABAMA</b>	<b>ZIP CODE 35406</b>			
ABRAMOVITCH, RUDOLPH A.....	PYRROLE DERIVATIVES AS ANTICANCER AGENTS.....	MCHB	5R01 CA15628-02	35,500
ABRAMOVITCH, RUDOLPH A.....	BIOLOGICALLY ACTIVE HETEROCYCLIC N-OXIDES.....	MCHB	3R01 GM16626-05S1	3,687
BRAMLETT, CHRISTOPHER L.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	1S05 RR07151-01	22,764
ELLIS, NORMAN R.....	SCIENTIFIC CONFERENCE ON MENTAL RETARDATION.....	EXP	1R13 HD09211-01	6,997
HARDMAN, JOHN K.....	STUDY OF PROPERTIES OF TRYPTOPHAN SYNTHETASES.....	BIO	5R01 GM20547-03	37,379
HAYES, A WALLACE.....	THE EFFECTS OF MYCOTOXINS ON MAMMALIAN SYSTEMS.....	TOX	2R01 ES00464-04	30,986
HAYES, A WALLACE.....	CARCINOGENICITY OF ENVIRONMENTAL MYCOTOXINS.....	TOX	5R01 ES00674-02	62,706
MEGO, JOHN L.....	PROTEIN CATABOLISM IN SUBCELLULAR ORGANELLES.....	MBY	1R01 GM21829-01	37,556
ORGANIZATION TOTAL	8	237,575		
STATE TOTAL	115	13,005,415		
<b>ALASKA</b>				
<b>COLLEGE</b>				
<b>UNIVERSITY OF ALASKA</b>	<b>ZIP CODE 99701</b>			
ELSNER, ROBERT W.....	CIRCULATORY REACTIONS TO ASPHYXIA.....	PHY	1R01 HL16020-01A1	72,158
FEIST, DALE D.....	NEURO-ENDOCRINAL ADAPTATIONS TO COLD AND SEASON.....	NEUB	1R01 ES00689-01A1	35,014
LUICK, JACK R.....	SUPPORT FOR ANIMAL CARE FACILITY.....	AR	5P06 RR00877-02	24,889
RAE, K M.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07001-09	33,518
REICHARDT, PAUL B.....	THE CONSTRUCTION OF BIOLOGICALLY IMPORTANT LACTONES.....	MCHA	5R01 GM20443-03	25,137
WEST, GEORGE C.....	RESEARCH IN ZOOPHYSIOLOGY IN ALASKA.....	GMP	3P01 GM10402-12S1	361,155
ORGANIZATION TOTAL	6	551,871		
STATE TOTAL	6	551,871		
<b>ARIZONA</b>				
<b>PHOENIX</b>				
<b>ST. JOSEPH'S HOSPITAL AND MEDICAL CENTER</b>	<b>ZIP CODE 85001</b>			
EIDELBERG, EDUARDO.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05575-06	67,028
ORGANIZATION TOTAL	1	67,028		
<b>TEMPE</b>				
<b>ARIZONA STATE UNIVERSITY</b>	<b>ZIP CODE 85281</b>			
ALVARADO, RONALD H.....	ONTOGENY OF OSMOTIC AND IONIC REGULATION.....	PHY	7R01 AM18256-01	14,904
BIRGE, EDWARD A.....	ANALYSIS OF RECOMBINATIONLESS MUTANTS OF BACTERIA.....	MBG	1R01 GM22112-01	29,240
BURKE, W J.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07112-08	33,568
MC GAUGHEY, ROBERT W.....	ANALYSIS OF MAMMALIAN OVARIAN FOLLICULAR FLUIDS.....	REB	5R01 HD06532-02	37,776
MUNK, MORTON E.....	COMPUTER-AIDED STRUCTURE ELUCIDATION.....	COM	1R01 GM21703-01	38,862
PATTERSON, ROBERT A.....	EFFECTS OF SCORPION VENOM ON VASCULAR CHEMORECEPTORS.....	TOX	1R01 GM22047-01	17,789
PETTIT, GEORGE R.....	NATURALLY OCCURRING ANTINEOPLASTIC AGENTS.....	MCHB	5R01 CA16049-02	66,965
WOODY, ROBERT W.....	OPTICAL PROPERTIES OF BIOLOGICAL MACROMOLECULES.....	BBCA	5R01 GM17850-06	67,363
WOOLF, CHARLES M.....	BEHAVIOR GENETICS-PHOTOTAXIS-GEOTAXIS IN DROSOPHILA.....	GEN	5R01 GM19583-02	24,803
ORGANIZATION TOTAL	9	331,270		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ARIZONA—Continued</b>				
<b>TUCSON</b>				
<b>UNIVERSITY OF ARIZONA</b>	<b>ZIP CODE 85721</b>			
BATES, ROBERT B.	STRUCTURES OF COMPOUNDS OF BIOLOGICAL INTEREST	BBCA	5R01 CA10944-07	36,015
BENSON, BRYANT	STRUCTURE AND ACTION OF PINEAL ANTIGONADOTROPIN	REB	1R01 HD08759-01	48,439
BOONE, MAX L.	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	2P01 CA13576-03	29,710
BOONE, MAX L.	HEAT AND RADIATION IN CANCER THERAPY AND DIAGNOSIS	CAP	1P01 CA17343-01	303,694
BOURQUE, DON P.	BIOCHEMISTRY AND GENETICS OF CHLOROPLAST RIBOSOMES	GEN	3R01 GM21242-01S1	2,795
BRENDEL, KLAUS	STUDY OF DRUGS IN CARBOHYDRATE-LIPID INTERRELATION	MET	5R01 AM14977-06	40,872
BRESSLER, RUBIN	EFFECT OF PHARMACOLOGIC AGENTS ON METABOLISM OF HEART	MET	5R01 HL13636-05	73,435
BROWN, BURNELL R, JR	ANESTHETIC-DRUG INTERACTIONS WITH THE LIVER	PHRA	5R01 AM16715-04	45,987
BURROWS, BENJAMIN	CENTER FOR STUDY OF OBSTRUCTIVE LUNG DISEASES	SRC	5P17 HL14136-05	419,320
CARTER, DEAN E.	APPROACHES TO TREATMENTS OF METHYL MERCURY TOXICITY	TOX	1R01 ES01005-01	33,260
CHVAPIL, MILOS	PROTECTION BY ZINC AGAINST TOXIC METALS AND GASES	TOX	5R01 ES00790-03	39,911
CORRIGAN, JAMES J, JR	NEUTRALIZATION OF ENDOTOXIN TOXICITY WITH POLYMYXIN B	BM	5R01 AI10353-04	19,581
CUSANOVICH, MICHAEL A.	REGENERATION OF THE VISUAL PIGMENT RHODOPSIN	VISB	1R01 EY01113-01A2	14,101
CUSANOVICH, MICHAEL A.	MECHANISM OF ACTION OF VERTEBRATE CYTOCHROME C	BIO	5R01 GM21277-02	22,454
DANTZLER, WILLIAM H.	REGULATION OF INDIVIDUAL NEPHRON FILTRATION RATES	PHY	5R01 AM16294-03	33,179
ENEMARK, JOHN H.	STRUCTURAL MODELS FOR MOLYBDO-ENZYMES	BBCA	1R01 ES00966-01	34,540
FELTHAM, ROBERT D.	CONTROL OF REACTIONS OF COORDINATED LIGANDS	MCHB	5R01 HL16205-02	63,376
FISHER, H KENNETH	DELIVERY OF PULMONARY SURFACTANT TO ALVEOLAR SURFACES	CVA	1R01 HL17775-01	38,245
FORSTER, LESLIE S.	ELECTRONIC PROPERTIES OF COMPLEX MOLECULES	BBCA	5R01 GM19921-09	28,987
GERNER, EUGENE W.	RADIATION INDUCED DEFECTS IN CELL KINETICS	RAD	1R01 CA18273-01	25,855
GLASS, RICHARD S.	A MECHANISM FOR OXIDATIVE PHOSPHORYLATION	BIO	5R01 HL15104-04	33,469
GOLDBERG, STANLEY J.	EVALUATION OF LUNG HYDRAULIC IMPEDANCE IN CHILDREN	PTHB	5R01 HD05936-04	22,687
GORE, ROBERT W.	PHYSICAL & MECHANICAL PARAMETERS IN THE MICROCIRCULATION	CVB	5R01 HL15524-03	25,359
GRIMES, WILLIAM J.	CELL SURFACES AND CELLS TRANSFORMED BY ONCOGENIC VIRUSES	PC	2R01 CA12753-04	32,520
GRUENER, RAPHAEL P.	BASIC CAUSES OF NERVE-MUSCLE EXCITABILITY DYSFUNCTION	NEUB	5R01 NS10417-03	24,324
HADLEY, MAC E.	HYPOTHALAMIC REGULATION OF PARS INTERMEDIA FUNCTION	END	5R01 AM16282-03	28,875
HALL, H K, JR	SYNTHETIC ANALOGS OF POLYSACCHARIDES	MCHA	3R01 GM18595-04S1	1,725
HALONEN, MARILYN J.	PATHOPHYSIOLOGICAL CHANGES IN THE LUNG INDUCED BY IGE	YIP	1R23 HL18372-01	39,460
HANAHAN, DONALD J.	LIPIDS AND PROTEINS IN COAGULATION AND MYELINATION	PC	5R01 HL15528-08	88,372
HANAHAN, DONALD J.	MEMBRANE STRUCTURE AND BEHAVIOR IN ERYTHROCYTES	PC	5R01 HL14521-05	32,692
HATTLER, BRACK G.	STUDY OF CELLULAR IMMUNITY USING A TUMOR MODEL	IMB	5R01 CA14459-03	61,369
HAUSSLER, MARK R.	FUNCTION OF VITAMIN D METABOLITES AND BONE DISEASE	GMB	2R01 AM15781-04	50,027
HEDGE, GEORGE A.	NEUROENDOCRINE REGULATION OF ACTH AND TSH SECRETION	END	5R01 AM13794-05	42,021
HRUBY, VICTOR J.	SYNTHESIS AND RECEPTOR STUDIES OF HORMONE ANALOGS	MCHA	5R01 AM15504-02	26,065
HRUBY, VICTOR J.	PEPTIDE HORMONE STRUCTURE AND FUNCTION	BBCA	5R01 AM17420-02	24,395
JETER, WAYBURN S.	CHARACTERISTICS OF TRANSFER FACTOR OF GUINEA PIG	IMB	5R01 AI11007-02	48,960
JOHNSON, PAUL C.	REGULATION OF BLOOD FLOW IN THE MICROCIRCULATION	PHY	5R01 HL15390-09	64,598
JOHNSON, PAUL C.	REGULATION AND EXCHANGE IN THE MICROCIRCULATION	HEP	1P01 HL17421-01	178,848
KASSANDER, A RICHARD, JR.	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	5S05 RR07002-10	40,236
LUCAS, DAVID O.	INTERFERON PRODUCTION BY LEUKOCYTES	ALY	5R01 AI11687-02	24,008
LUDOVICI, PETER P.	PLAQUES AND TOXINS IN CELL STRUCTURE BY P AERUGINOSA	BM	5R01 AI10279-02	22,910
MATHEWS, CHRISTOPHER K.	ENZYMOLGY OF NORMAL AND VIRUS-INFECTED BACTERIA	MBC	2R01 AI08230-08	52,961
MEEZAN, ELIAS	GLYCOPROTEIN STRUCTURE AND METABOLISM IN DIABETES	PTHA	5R01 AM15394-05	50,824
MENDELSON, NEIL H.	CONTROL OF GROWTH AND DIVISION	MBC	2R01 GM18735-04	53,467
MORKIN, EUGENE	CELLULAR MECHANISMS IN CARDIAC HYPERTROPHY	CVA	7R01 HL17971-01	43,564
MORROW, GRANT, III.	METABOLIC STUDIES IN METHYLMALONIC ACIDEMIA	MET	5R01 HD06575-03	49,739
NETTING, ROBERT M.	POPULATION REGULATION IN A SWISS VILLAGE	POP	5R01 HD08587-02	6,503
OLSON, GEORGE B.	COMPUTER ANALYSIS OF LYMPHOCYTES FROM LEUKEMIC MICE	PTHB	1R01 CA15641-01A1	70,217
OLSON, MERLE S.	REGULATION OF ENERGY METABOLISM IN LIVER	BIO	5R01 AM13967-05	20,829
OLSON, MERLE S.	INTEGRATED REGULATION OF MYOCARDIAL ENERGY METABOLISM	BIO	5R01 HL16111-02	43,227
PEACOCK, ERLE E, JR	BIOLOGICAL CONTROL OF SCAR TISSUE	SGYB	5R01 AM14047-07	129,600
PEACOCK, ERLE E, JR	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00714-03	119,948
PINCKARD, ROBERT N.	FACTORS CONTROLLING SYNTHESIS OF HUMORAL ANTIBODIES	ALY	5R01 AI09160-07	22,954
PINCKARD, ROBERT N.	DIAGNOSIS AND CHARACTERIZATION OF MYOCARDIAL INFARCTION	PTHA	3R01 HL14467-03S1	1,211
PINCKARD, ROBERT N.	COMPLEMENT ACTIVATION BY HEART SUBCELLULAR MEMBRANES	ALY	1R01 HL18194-01	49,870
RUPLEY, JOHN A.	STUDIES ON HEMOPROTEINS, LYSOZYME AND INSULIN	PC	5R01 GM09410-13	74,812



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ARIZONA—Continued</b>				
RUSSELL, DIANE H.....	POLYAMINE METABOLISM IN CANCER AND CANCER CHEMOTHERAPY.....	PTHB	5R01 CA14783-03	78,475
SALEMME, FRANCIS R.....	CYTOCHROME STRUCTURE AND INTERACTION.....	BIO	5R01 GM21534-02	48,209
SALMON, SYDNEY E.....	SOUTHWEST ONCOLOGY GROUP.....	CCI	2R10 CA13612-02	89,480
SALMON, SYDNEY E.....	KINETICS OF MONOCLONAL PLASMA CELL NEOPLASIA OF MAN.....	ET	2R01 CA14102-04	44,130
SALMON, SYDNEY E.....	MEDICAL ONCOLOGY PROGRAM PROJECT.....	CAP	1P01 CA17094-01	915,549
SHELTON, RALPH L.....	PREDICTING ARTICULATION FROM CINEFLUOROGRAPHIC MEASURES.....	CMS	2R01 DE03350-05	40,620
TOLLIN, GORDON.....	FLAVIN-PROTEIN INTERACTIONS IN FLAVOENZYME CATALYSIS.....	B8CB	5R01 AM15057-05	38,829
VANSELOW, NEAL A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05675-07	181,216
WETZEL, MARY C.....	INTERLIMB ASPECTS OF THE NEURAL CONTROL OF LOCOMOTION.....	NEUB	5R01 NS11491-02	43,603
WILSKA, ALVAR P.....	DEVELOPMENT OF LOW-VOLTAGE ELECTRON MICROSCOPE.....	MBY	5R01 GM11852-12	39,969
WITTE, CHARLES L.....	LYMPH-AN INDICATOR OF SPLANCHNIC TISSUE RESPIRATION.....	SGYB	5R01 HL13341-05	49,439
WYCKOFF, RALPH W.....	BIOPHYSICAL STUDY OF TEETH AND BONE.....	BBCA	5R01 DE01919-13	41,104
ZUKOSKI, CHARLES F.....	CONTROL OF TISSUE REJECTION BY ZINC.....	SGYB	5R01 AM16489-03	56,908
ORGANIZATION TOTAL	69	4,723,933		
STATE TOTAL	79	5,122,231		
<b>ARKANSAS</b>				
<b>FAYETTEVILLE</b>				
UNIVERSITY OF ARKANSAS      ZIP CODE 72701				
MILLET, FRANCIS S.....	NMR STUDIES OF MEMBRANE BOUND PROTEINS.....	BBCB	5R01 GM20488-03	33,333
MONEY, WILLIAM L.....	THE ULTIMOBRANCHIAL BODY AND THYROID TUMORS.....	END	5R01 CA14758-02	17,862
ORGANIZATION TOTAL	2	51,195		
<b>LITTLE ROCK</b>				
UNIVERSITY OF ARKANSAS MEDICAL CENTER      ZIP CODE 72201				
BARRON, ALMEN L.....	CHLAMYDIAL GENITAL INFECTION: AN ANIMAL MODEL SYSTEM.....	BM	7R01 AI13069-01	21,990
BERRY, DAISILEE H.....	SOUTHWEST ONCOLOGY GROUP - PEDIATRIC DIVISION.....	CCI	2R10 CA15995-02	32,958
BOND, GARY C.....	ARTERIAL BARORECEPTORS AND RENAL FUNCTION.....	CVB	2R01 HL16303-02	46,727
BRUCE, THOMAS.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05350-14	76,236
CAVE, MAC D.....	MODES OF DNA AMPLIFICATION EXPRESSED BY OOCYTES.....	GEN	5R01 GM21446-02	20,726
CHRIST, DARYL D.....	EFFECTS OF GENERAL ANESTHETICS ON SYMPATHETIC GANGLIA.....	PHRA	2R01 NS10393-04	32,128
DOHERTY, JAMES E., III.....	STUDY OF TRITIATED DIGOXIN.....	PHRA	5R01 HL06642-12	3,300
DYKMAN, ROSCOE A.....	STUDY OF CHILDREN WITH MINIMAL BRAIN DYSFUNCTION.....	DBR	1R01 HD09119-01	61,464
ELDERS, MINNIE J.....	THE METABOLIC ACTIVITY OF THYMIC HORMONE.....	END	2R01 AM15901-04	42,780
ELDERS, MINNIE J.....	GROWTH HORMONE AND SULFATION FACTOR IN ACUTE LEUKEMIA.....	END	5R01 CA13907-03	28,853
FISER, ROBERT H, JR.....	STUDIES OF INSULIN RESISTANCE IN ADOLESCENT OBESITY.....	END	1R01 HD09944-01	41,479
GILMORE, SHIRLEY A.....	RADIATION-INDUCED CHANGES IN THE NEONATAL NERVOUS SYSTEM.....	RAD	5R01 NS04761-12	36,366
GILMORE, SHIRLEY A.....	EFFECT OF UNDERNUTRITION ON THE IMMATURE NERVOUS SYSTEM.....	NEUB	5R01 NS09990-02	28,322
LIPSMAYER, ELEANOR A.....	EFFECT OF POLY I:C ON DELAYED HYPERSENSITIVITY.....	IMB	5R01 AI10023-05	14,299
MORRIS, MANFORD D.....	STUDIES ON A PRIMATE MODEL OF HYPERLIPIDOPROTEINEMIA.....	MET	1R01 HL17941-01	16,918
MOSS, A J, JR.....	EFFECTS OF FAST NEUTRONS ON CULTURED MAMMALIAN CELLS.....	RAD	5R01 CA13270-03	38,037
MOSS, A J, JR.....	A SCREENING METHOD FOR MALIGNANCY.....	EDC	1R01 CA17587-01	52,325
ROTH, SANFORD I.....	THE PARATHYROID GLANDS IN NEOPLASTIC DISEASES.....	END	7R01 CA18616-01	51,898
ROTH, SANFORD I.....	COMPARATIVE HISTOGENESIS OF HAIR AND SQUAMATE SKIN.....	GMA	7R01 CA18622-01	74,086
SCHVEING, LAWRENCE E.....	CHRONOBIOLOGICAL APPROACH TO CANCER CHEMOTHERAPY.....	ET	5R01 CA14388-03	49,019
SKINNER, ROBERT D.....	SPINAL TRACT PROJECTIONS TO INTERNEURONS OF VENTRAL HORN.....	NEUA	5R01 NS10304-03	18,034
STRAUB, KARL D.....	THE EFFECTS OF INSULIN ON THE MEMBRANE NA-K ATPASE.....	PHY	1R01 AM17973-01	25,925
TRANUM, BILLY L.....	PROTECTION OF PLATELET PRECURSORS.....	HEM	1R01 CA17427-01	53,475
WADKINS, CHARLES L.....	CONTROL MECHANISMS OF BIOLOGICAL CALCIFICATION.....	GMB	5R01 AM11528-08	61,853
WINTER, CHARLES G.....	PURIFICATION OF ACTIVE FRAGMENTS OF THE SODIUM PUMP.....	PHY	5R01 AM16483-02	26,787
WOODBURNE, RUSSELL T.....	TRAVEL TO XTH INTERNATIONAL CONGRESS OF ANATOMISTS.....	NSS	1R13 GM22095-01	4,000
WYNN, JAMES O.....	FUNCTION AND DEGRADATION OF THYROXINE.....	END	3R01 AM12452-06S1	28,745
YEH, YUN-CHI.....	BIOCHEMICAL AND GENETIC STUDIES OF DNA SYNTHESIS.....	GEN	3R01 GM18012-04S1	2,613
ZWEMER, RAYMUND L.....	INTERNATIONAL ANATOMICAL NOMENCLATURE.....	BCM	5R13 LM01810-03	4,800

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ARKANSAS—Continued</b>				
ORGANIZATION TOTAL	29	996,143		
<b>SILOAM SPRINGS</b>				
<b>JOHN BROWN UNIVERSITY</b>	<b>ZIP CODE 72761</b>			
GRIGGS, HENRY G.	ULTRAVIOLET AND IONIZING RADIATION DAMAGE	RAD	7R01 CA18809-01	28,300
ORGANIZATION TOTAL	1	28,300		
STATE TOTAL	32	1,075,638		
<b>CALIFORNIA</b>				
<b>BAKERSFIELD</b>				
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE COLLEGE, BAKERSFIELD</b>	<b>ZIP CODE 93309</b>			
SILVERMAN, PHILIP	A CROSS-CULTURAL STUDY ON THE TREATMENT OF THE AGED	DBR	5R01 HD08577-02	59,472
ORGANIZATION TOTAL	1	59,472		
<b>BERKELEY</b>				
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY—DEPARTMENT OF HEALTH</b>	<b>ZIP CODE 94704</b>			
DAS GUPTA, PRITHWIS	DEMOGRAPHIC PORTRAIT OF SPANISH-SURNAMED CALIFORNIANS	POP	5R01 HD07598-02	48,168
LENNETTE, EDWIN H	IMMUNOLOGY AND EPIDEMIOLOGY OF CERTAIN VIRAL DISEASES	VR	5R01 AI01475-18	272,172
MC EWEN, WILLIAM J	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05549-13	53,468
ORGANIZATION TOTAL	3	373,808		
<b>INSTITUTE FOR RESEARCH IN SOCIAL BEHAVIOR</b>	<b>ZIP CODE 94705</b>			
MANHEIMER, DEAN I	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05719-04	31,567
ORGANIZATION TOTAL	1	31,567		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT BERKELEY</b>	<b>ZIP CODE 94720</b>			
AMES, BRUCE N	REGULATION OF GENE FUNCTION AND PROTEIN SYNTHESIS	BIO	5R01 GM19993-08	95,662
AMES, GIOVANNA F	LIPIDS AND ACTIVE TRANSPORT OF AMINO ACIDS	MBC	5R01 AM12121-08	67,492
BALLOU, CLINTON E	COMPLEX PHOSPHOLIPIDS OF MYCOBACTERIUM SPECIES	MBC	5R01 AM00884-20	100,346
BARKER, HORACE A	INTERMEDIARY METABOLISM OF BACTERIA	MBC	5R01 AI00563-28	61,982
BARTLETT, PAUL A	PHOSPHATE-DERIVED PHOTOAFFINITY LABELS	MCHA	1R01 GM21612-01	32,638
BAUMRIND, DIANA	FAMILY SOCIALIZATION & DEVELOPMENT COMPETENCE	PCR	5R01 HD02228-09	106,982
BENTLEY, DAVID R	FUNCTIONAL DEVELOPMENT OF IDENTIFIED NEURAL NETWORKS	PHY	2R01 NS09074-06	26,393
BERGER, STANLEY A	SPERM TRANSPORT IN CERVICAL MUCUS	REB	5R01 HD08018-02	52,073
BORSOOK, HENRY	BIOLOGICAL SYNTHESIS OF PROTEIN	PC	3R01 HL12236-06S1	2,657
BORSOOK, HENRY	BIOLOGICAL SYNTHESIS OF PROTEIN	PC	2R01 HL12236-07	44,584
BUCHANAN, BOB B	REGULATORY MECHANISMS IN CARBOHYDRATE SYNTHESIS	BIO	5R01 GM20579-02	27,845
BUDINGER, THOMAS F	POSITRON EMISSION CAMERA/TRANSVERSE SECTION TOMOGRAPHY	RAD	1R01 CA17566-01	190,530
BUDINGER, THOMAS F	LIQUID XENON MULTI-WIRE RADIOISOTOPE CAMERA	RAD	3R01 GM20115-02S1	39,529
BURKI, HENRY J	IN VITRO STUDY OF MAMMALIAN CELLS DAMAGED BY TRITIUM	RAD	5R01 CA14310-03	37,981
BURLINGAME, A L	BIOMEDICAL, CLINICAL MASS SPECTROMETRY RESOURCE	SSS	5P07 RR00719-02	144,370
CALENDAR, RICHARD	MOLECULAR STUDIES ON PHAGE P2 AND ITS SATELLITE, P4	GEN	5R01 AI08722-07	65,587
CALVIN, MELVIN	STUDY OF MOLECULAR MECHANISM OF CARCINOGENESIS	PTHB	5R01 CA14828-02	236,055
CARPENTER, FREDERICK H	STRUCTURE AND ACTIVITY OF INSULIN	BIO	2R01 AM00608-21A1	51,459
CARPENTER, FREDERICK H	MECHANISM OF LEUCINE AMINOPEPTIDASE	BIO	5R01 EY00813-05	41,109
CASE, ROBBIE	THE PROCESS OF COGNITIVE DEVELOPMENT	DBR	1R01 HD09148-01	28,144
CASIDA, JOHN E	MODE OF ACTION AND METABOLISM OF ORGANIC TOXICANTS	SSS	5P01 ES00049-11	264,192
CHAMBERLIN, MICHAEL J	STUDIES OF THE ENZYMATIC SYNTHESIS OF NUCLEIC ACIDS	BIO	5R01 GM12010-12	89,842
CIPOLLA, CARLO M	THE EARLY HISTORY OF PUBLIC HEALTH IN WESTERN EUROPE	SSS	1R01 LM02324-01	2,659
CLARK, ALVIN J	PHYSIOLOGY OF BACTERIAL CONJUGATION AND RECOMBINATION	GEN	5R01 AI05371-13	127,031
COHN, THEODORE E	THE DETECTION OF VISUAL SIGNALS	VISB	1R23 EY01481-01	9,777
COLE, R DAVID	DISTORTION OF DISULFIDE BRIDGES IN ENZYMES	PC	5R01 AM06482-13	33,724

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
COLE, R. DAVID.....	HISTONE BIOCHEMISTRY AND THE INFLUENCE OF HORMONES.....	PC	5R01 GM20338-08	92,225
CONNELL, GERALD M.....	STUDY OF AUGMENTED PRODUCTION OF TESTOSTERONE.....	REB	5R01 HD06486-03	17,589
CORNET, ISRAEL I.....	DIRECT MEASUREMENT OF MASS TRANSPORT IN BRANCHED FLOWS.....	CVB	1R01 HL18298-01	41,839
CURTIS, STANLEY B.....	THE RESPONSE OF A RAT RHABDOMYOSARCOMA TO HEAVY IONS.....	RAD	1R01 CA17411-01	68,904
DAUBEN, WILLIAM G.....	ULTRAVIOLET IRRADIATION OF NATURAL PRODUCTS.....	MCHB	5R01 AM00709-22	43,784
DAUBEN, WILLIAM G.....	PREPARATION OF MODIFIED STEROIDS AND SESQUITERPENES.....	MCHA	2R01 CA04284-16	52,546
DE VALOIS, RUSSELL I.....	ELECTROPHYSIOLOGY OF COLOR VISION.....	VISB	2R01 EY00014-07	61,580
DUESBERG, PETER H.....	STRUCTURE AND REPLICATION OF ROUS SARCOMA AND INFLUENZA.....	VR	5R01 CA11426-07	87,557
EAKIN, RICHARD M.....	STUDIES IN FINE STRUCTURE.....	CBY	5R01 GM10292-13	88,817
ECHOLS, G. HARRISON, JR.....	GENETIC AND CHEMICAL STUDIES OF PHAGE LAMBDA DEVELOPMENT.....	GEN	2R01 GM17078-06	107,050
ELBERG, SANFORD S.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07006-10	162,978
EVERHART, THOMAS E.....	SCANNING ELECTRON MICROSCOPY.....	SSS	2R01 GM17523-05	75,006
FOGEL, SEYMOUR.....	RECOMBINATION - DNA SYNTHESIS AND DEVELOPMENT IN YEAST.....	GEN	5R01 GM17317-06	49,710
FORTE, GERTRUDE M.....	FINE STRUCTURE OF SERUM LIPOPROTEINS.....	MET	5R01 HL12710-06	52,803
FORTE, JOHN G.....	MECHANISM OF HD AND CL- TRANSPORT BY GASTRIC MUCOSA.....	PHY	2R01 AM10141-10	74,062
FRAENKEL-CONRAT, BEATRICE.....	ALKYLATION OF POLYNUCLEOTIDES IN VITRO AND IN VIVO.....	ET	5R01 CA12316-05	60,746
FRAENKEL-CONRAT, HEINZ L.....	THE MECHANISM OF THE NEUROTOXICITY OF VENOMS.....	TOX	5R01 ES00700-02	44,143
FREELING, MICHAEL.....	DEVELOPMENTAL GENETICS WITH AN INDUCIBLE GENE SYSTEM.....	GEN	1R01 GM21734-01	28,532
FREEMAN, RALPH D.....	PARTIAL VISUAL DEPRIVATION IN HUMANS AND VISUAL CORTEX.....	VISB	5R01 EY01175-03	55,923
FRISTROM, JAMES W.....	MORPHOGENESIS OF IMAGINAL DISCS IN DROSOPHILA.....	GEN	5R01 GM19937-03	70,623
FUERSTENAU, DOUGLAS W.....	INTERFACIAL PROPERTIES OF APATITE AND TOOTH MATERIALS.....	DEN	5R01 DE03708-03	59,577
GERHART, JOHN C.....	STUDIES OF CELLULAR REGULATORY MECHANISMS.....	CBY	5R01 GM17633-11	67,869
GLAESER, ROBERT M.....	ELECTRON CRYSTALLOGRAPHY OF BIOLOGICAL STRUCTURES.....	BBCB	5R01 GM19452-02	37,207
GLASER, DONALD A.....	FACILITY FOR AUTOMATED EXPERIMENTS IN CELL BIOLOGY.....	CBY	1R01 CA18686-01	90,196
GLASER, DONALD A.....	SCANNER-COMPUTER INVESTIGATIONS OF BIOLOGICAL SYSTEMS.....	GMP	3P01 GM13244-10S1	35,000
GLASER, DONALD A.....	MICROBIAL AND SOMATIC CELL GENETICS AND PHYSIOLOGY.....	SSS	1R01 GM22021-01	153,102
GLASER, DONALD A.....	FACILITY FOR AUTOMATED EXPERIMENTS IN CELL BIOLOGY.....	SSS	1P07 RR00961-01	1,326,000
GOLDSMITH, WERNER.....	HEAD-NECK SYSTEM MOTION AND STRESS DUE TO IMPACT.....	AFY	1R01 AM18384-01	42,743
GOUGH, HARRISON G.....	PERSONALITY AND ATTITUDE FACTORS IN BIRTH PLANNING.....	POP	5R01 HD06589-04	44,302
HAFTER, ERVIN R.....	PSYCHOPHYSIOLOGICAL STUDIES OF BINAURAL INTERACTION.....	EXP	2R01 NS07787-07A1	42,750
HARRIS, MORGAN.....	POLYPOIDY IN ANALYSIS OF VARIATION AND TUMORIGENESIS.....	PTHB	5R01 CA12130-05	59,981
HEARST, JOHN E.....	PHYSICAL CHEMISTRY OF DEOXYRIBONUCLEIC ACID.....	BBCB	5R01 GM11180-12	77,181
HEATHCOCK, CLAYTON H.....	SYNTHESIS OF MACROCYCLIC LACTONES.....	MCHA	5R01 AI11607-02	31,809
HEATHCOCK, CLAYTON H.....	SYNTHESIS OF ISOPRENOID ANTITUMOR COMPOUNDS.....	MCHA	2R01 CA12617-04	58,497
HOSODA, JUNKO.....	ROLE OF LIGASE AND OTHER ENZYMES IN DNA REPLICATION.....	PC	2R01 GM16841-04	63,993
JENSEN, FREDERICK R.....	DEMETALLATION, ALKYLATION AND BIOCHEMICAL PROCESSES.....	MCHB	5R01 GM15373-08	78,944
KELLER, EDWARD L.....	STUDIES ON THE OCULOMOTOR SYSTEM OF ALERT PRIMATES.....	VISB	2R01 EY00955-04	37,662
KELLY, LOLA S.....	ROLE OF IMMUNOSUPPRESSION IN RADIATION INDUCED LEUKEMIA.....	RAD	5R01 CA14228-03	57,355
KNIGHT, C. ARTHUR.....	CHEMISTRY OF VIRUS MUTATION.....	GEN	5R01 AI00634-22	72,445
KOSHLAND, DANIEL E, JR.....	RESEARCH IN BIOCHEMISTRY.....	PC	2R01 AM08845-11	92,564
KOSHLAND, DANIEL E, JR.....	REGULATORY PROCESSES IN BIOLOGICAL SYSTEMS.....	BIO	5R01 AM09765-10	178,729
KOSHLAND, MARIAN E.....	MECHANISM OF ANTIBODY SPECIFICITY AND BIOSYNTHESIS.....	SSS	5R01 AI07079-10	77,546
LAWRENCE, JOHN H.....	THE IMPORTANCE OF BONE IN HEMATOPOIETIC MARROW FUNCTION.....	HEM	5R01 CA08370-10	98,941
LEIGHTON, TERRANCE J.....	TRANSCRIPTIONAL CONTROL OF BACTERIAL CELL DEVELOPMENT.....	MBC	7R01 GM22053-01	38,046
LEIGHTON, TERRANCE J.....	TRANSLATIONAL CONTROL OF BACTERIAL CELL DEVELOPMENT.....	MBC	1R01 GM22180-01	35,801
LEPKOVSKY, SAMUEL.....	OBESITY, ATHEROSCLEROSIS AND ISCHEMIC HEART DISEASE.....	NTN	1R01 HL17937-01	37,800
LEWIS, EDWIN R.....	MORPHOLOGY AND PHYSIOLOGY OF THE INNER EAR.....	CMS	1R01 NS12359-01	39,394
LINDGREN, FRANK T.....	ANALYTICAL AND PHYSICAL CHEMISTRY OF SERUM LIPOPROTEINS.....	BBCB	5R01 HL01882-21	90,498
LOFGREN, EDWARD J.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	1P01 CA17801-01	261,773
LOHER, WERNER J.....	CIRCADIAN AND HORMONAL CONTROL OF SEXUAL BEHAVIOR.....	EXP	5R01 HD03619-07	23,494
LYMAN, RICHARD L.....	CHARACTERIZATION AND ISOLATION OF LECITHINS.....	MET	2R01 AM10166-10	62,508
LYMAN, RICHARD L.....	PROTEIN, TRYPSIN INHIBITORS AND PANCREATIC SECRETION.....	NTN	5R01 AM16259-02	37,957
MAESTRE, MARCOS F.....	PHYSICAL STRUCTURE-VIRUSES CHROMOSOMES AND CELL NUCLEI.....	BBCA	2R01 AI08427-07	69,888
MALKIN, RICHARD.....	IRON-SULFUR PROTEINS AS CARRIERS IN ELECTRON TRANSFER.....	BIO	5R01 GM20571-02	23,524
MANDELL, ROBERT B.....	CORNEAL EFFECTS OF FLEXIBLE CONTACT LENSES.....	VISA	5R01 EY00966-03	36,333
MARGEN, SHELDON.....	STUDIES IN HUMAN NUTRITION.....	SSS	2P02 AM10202-09	268,390
MARTIN, G. STEVEN.....	GENETICS OF RNA TUMOR VIRUSES.....	VR	1R01 CA17542-01	101,518
MATWYOFF, NICHOLAS A.....	A NATIONAL, STABLE ISOTOPES RESOURCE AT LOS ALAMOS.....	RAD	1P07 RR00962-01	216,840
MAYALL, BRIAN H.....	DIGITAL MICROPHOTOMETRY AND BIOMEDICAL IMAGE ANALYSIS.....	COM	5R01 GM20291-03	210,000
MAZIA, DANIEL.....	TRANSFORMATION, DIVISION, AND MOTION OF CELLS.....	SSS	5P01 GM13882-10	262,042



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
MENDELSON, MORTIMER L.....	RADIOBIOLOGICAL TECHNIQUES IN HUMAN CANCER THERAPY.....	RAD	2R01 CA14533-03	210,767
MENDELSON, MORTIMER L.....	CANCER RADIOCHEMOTHERAPY WITH 7-TRITIOTETRACYCLINE.....	RAD	5R01 CA15225-02	69,989
MILMAN, GREGORY.....	ISOLATION OF ANIMAL CELLS CONTAINING SUPPRESSOR TRNAS.....	GEN	2R01 CA12308-04	76,181
MISHELL, ROBERT I.....	REGULATION OF CELLS OF THE IMMUNE SYSTEM.....	ALY	2R01 AO0817-07	77,690
MISHELL, ROBERT I.....	ANALYTIC STUDIES OF CELLULAR ASPECTS OF IMMUNE MEMORY.....	ALY	1R01 CA17919-01	55,716
MODRICH, PAUL L.....	ENZYMATIC BASIS OF TYPE II RESTRICTION AND MODIFICATION.....	BIO	1R01 GM21610-01	61,869
NANDI, SATYABRATA.....	BIOLOGY OF MAMMARY NEOPLASIA.....	CAK	2P01 CA05388-16	819,530
NEILANDS, JOHN B.....	IRON METABOLISM OF MICROORGANISMS.....	MBC	5R01 AI04156-14	30,420
NEILANDS, JOHN B.....	CHELATES FOR COOLEY'S ANEMIA AND IRON STORAGE DISEASE.....	HEM	5R01 AM17146-02	54,710
NEYMAN, JERZY.....	STATISTICAL STUDIES OF PROBLEMS OF HEALTH AND BIOLOGY.....	COM	5R01 GM10525-12	149,326
NICHOLS, ALEXANDER V.....	STRUCTURE AND FUNCTION OF SERUM LIPOPROTEINS.....	MET	5R01 HL10878-09	44,619
NICOLL, CHARLES S.....	CONTROL OF PROLACTIN SECRETION.....	END	5R01 AM13605-05	39,337
NIKAIKO, HIROSHI.....	BIOCHEMISTRY OF BACTERIAL CELL MEMBRANES.....	MBC	5R01 AO19644-06	54,784
O'KONSKI, CHESTER T.....	DYNAMICS OF NUCLEIC ACID MACROMOLECULES AND COMPLEXES.....	BBCA	2R01 CA12540-04	48,171
OSTWALD, ROSEMARIE.....	EFFECT OF DIETARY CHOLESTEROL IN MAMMALS.....	NTN	5R01 AM08480-12	68,487
PACKER, LESTER.....	STUDY OF CELLULAR AGING PROCESSES.....	HDAG	5P01 HD05875-05	208,969
PACKER, LESTER.....	NEUROLATHYRISM.....	BIO	1R01 NS11321-01A1	36,953
PALMOUR, ROBERTA M.....	GENETIC AND CHEMICAL STUDIES OF ENZYME VARIATIONS.....	GEN	5R01 AM16722-02	36,151
PENHOET, EDWARD E.....	IN VITRO RESTRICTION AND MODIFICATION OF PHAGE DNA.....	PC	5R01 GM19020-07	49,390
RABINOWITZ, JESSE C.....	PURINE AND PTERIDINE METABOLISM IN MICROORGANISMS.....	MBC	5R01 AM02109-18	85,815
RAJU, MUDUNDI R.....	THERAPEUTIC POTENTIAL OF HEAVY CHARGED PARTICLES.....	RAD	1R01 CA17290-01	81,336
RAYMOND, KENNETH N.....	HYDROXAMATE COMPLEXES IN IRON TRANSPORT SYSTEMS.....	MCHB	5R01 AI11744-02	45,903
REEVES, WILLIAM C.....	ECOLOGY AND CONTROL OF ARBOVIRUSES.....	TMP	2R01 AO13028-16	250,631
ROHWER, WILLIAM D, JR.....	ELABORATION AND MEMORY DEVELOPMENT IN ADOLESCENCE.....	DBR	2R01 HD03869-07	54,923
ROTH, JOHN R.....	AN ANALYSIS OF THE GENES INVOLVED IN TRNA PRODUCTION.....	GEN	5R01 GM18633-08	53,680
ROWELL, CHARLES H.....	MECHANISMS OF MODULATION OF VISUALLY INDUCED BEHAVIOR.....	NEUB	2R01 NS09404-05	70,607
ROWELL, THELMA E.....	REPRODUCTIVE CYCLES AND SOCIAL BEHAVIOR OF PRIMATES.....	EXP	5R01 HD05637-04	30,426
RUBIN, HARRY.....	PRIMARY EVENTS IN REGULATING CELL MULTIPLICATION.....	CBY	5R01 CA15744-02	145,643
SATIR, BIRGIT H.....	MEMBRANES PRIOR TO AND DURING FUSION IN SECRETION.....	MBY	5R01 GM21077-02	60,566
SATIR, PETER.....	STRUCTURE AND MOTION OF CILIA.....	CBY	5R01 HL13849-08	69,289
SCHACHMAN, HOWARD K.....	CANCER RESEARCH PROGRAM: VIRUSES; CONTROL MECHANISMS.....	CAP	5P01 CA14097-03	165,900
SCHACHMAN, HOWARD K.....	STRUCTURES AND INTERACTIONS OF BIOLOGICAL MACROMOLECULES.....	BBCA	5R01 GM12159-12	106,676
SHORE, VIRGIE G.....	COMPOSITION AND STRUCTURE OF PLASMA LIPOPROTEINS.....	MET	1R01 HL17463-01	46,164
SNELL, ESMOND E.....	NUTRITION AND METABOLISM OF MICROORGANISMS.....	PC	5R01 AO1575-19	58,404
SNELL, ESMOND E.....	CATALYTIC FUNCTIONS AND METABOLISM OF VITAMIN B6.....	PC	5R01 AM01448-19	80,566
STENT, GUNTHER S.....	GENETIC CONTROL OF MACROMOLECULAR SYNTHESIS.....	GEN	5R01 GM17866-22	114,765
STOKSTAD, E L.....	METABOLISM OF FOLIC ACID AND VITAMIN B12.....	NTN	5R01 AM08171-12	69,211
STOKSTAD, E L.....	NUTRITIONAL REQUIREMENTS OF FREE-LIVING SYSTEMS.....	TMP	2R01 AM12625-07A1	29,081
STREITWIESER, ANDREW, JR.....	ACIDITY OF HYDROCARBONS.....	MCHA	2R01 GM12855-11	91,331
STYVESTER, EDWARD S.....	PROPAGATIVE-CIRCULATIVE VIRUS TRANSMISSION BY INSECTS.....	TMP	5R01 AO17255-09	12,371
TARTER, MICHAEL E.....	GRAPHICAL BIOMETRY.....	COM	1R01 GM18987-01A1	54,508
THORNER, JEREMY W.....	CELL-CELL INTERACTIONS OF A SIMPLE EUKARYOTE.....	GEN	1R01 GM21841-01	47,763
TIMIRAS, PAOLA S.....	MEMBRANOGENESIS IN CRETINISM AND HYPERTHYROIDISM.....	END	5R01 HD07340-02	54,652
TIMIRAS, PAOLA S.....	BRAIN FUNCTION DURING ALTITUDE ACCLIMATIZATION.....	NEUB	5R01 NS08989-13	58,485
TINOCO, IGNACIO, JR.....	STRUCTURE AND FUNCTION OF NUCLEIC ACIDS.....	BBCA	5R01 GM10840-17	156,884
TOBIAS, CORNELIUS A.....	PRETHERAPEUTIC USE OF ACCELERATED HEAVY IONS.....	CAP	5P01 CA15184-02	338,374
VAN DEN BERG, BARBARA J.....	CHILD HEALTH AND DEVELOPMENT STUDIES.....	HDMC	2P01 HD07256-04	179,080
WANG, JAMES C.....	PHYSICOCHEMICAL STUDIES OF NUCLEIC ACIDS.....	BBCB	5R01 GM14621-09	89,990
WASHBURN, WILLIAM N.....	SQUALENE SYNTHETASE: MECHANISM AND INTERMEDIATES.....	SSS	1R01 GM21518-01	32,935
WEI, EDDIE T.....	TOXICOLOGY OF PARAQUAT.....	TOX	5R01 ES00926-02	26,822
WERBLIN, FRANK S.....	INTRACELLULAR STUDIES OF RETINAL FUNCTION.....	VISB	2R01 EY00561-06	66,578
WESTHEIMER, GERALD.....	STUDY OF RETINAL AND CENTRAL VISUAL FUNCTION.....	VIS	5R01 EY00220-14	41,189
WESTHEIMER, GERALD.....	OCULOMOTOR CONTROL.....	VIS	5R01 EY00592-07	57,027
WILLIAMS, MARY A.....	ESSENTIAL FATTY ACID INTAKE AND FATTY ACID SYNTHESIS.....	NTN	5R01 AM12024-08	42,320
WILLIAMS, ROBLEY C.....	VIRUS STRUCTURE AND GROWTH IN CULTURED CELLS.....	VR	5R01 AI10845-21	65,647
WILSON, ALLAN C.....	TAXONOMY AND PHYLOGENY OF PSEUDOMONADS.....	MBC	5R01 AO1808-18	77,541
WILSON, ALLAN C.....	REGULATION AS A BASIS FOR ORGANISMAL DIFFERENCES.....	GEN	1R01 GM21509-01	47,759
WINKELSTEIN, WARREN, JR.....	RACE ENVIRONMENT AND PROSTATIC CANCER.....	SRC	1R26 CA18581-01	30,860
WINKELSTEIN, WARREN, JR.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05441-14	106,216
WOFSEY, LEON.....	RECEPTOR FUNCTION IN LYMPHOCYTE DIFFERENTIATION.....	ALY	5R01 AO10610-11	108,606

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
ZUCKER, IRVING.....	BEHAVIOR, HORMONES AND BRAIN FUNCTION.....	EXP	3R01 HD02982-0BS1	5,435
ZUSMAN, DAVID R.....	STUDY OF CELL DIVISION AND MORPHOGENESIS IN BACTERIA.....	MBC	5R01 GM20509-03	28,207
ORGANIZATION TOTAL	148 13,650,484			
<b>BURBANK</b>				
ST. JOSEPH MEDICAL CENTER	ZIP CODE 91505			
LANCHANTIN, GERARD F.....	CHEMISTRY OF HUMAN BLOOD COAGULATION.....	SSS	5R01 HL17690-02	38,206
LANCHANTIN, GERARD F.....	SUBUNITS FORMED DURING HUMAN PROTHROMBIN ACTIVATION.....	HEM	5R01 HL17718-02	43,076
ORGANIZATION TOTAL	2 81,282			
<b>CLAREMONT</b>				
CLAREMONT COLLEGES SYSTEM—CLAREMONT GRADUATE SCHOOL	ZIP CODE 91711			
OSKAMP, STUART.....	PREDICTION OF PROBABILITIES IN CONTRACEPTIVE PLANNING.....	POP	5R01 HD08074-02	49,359
ORGANIZATION TOTAL	1 49,359			
CLAREMONT COLLEGES SYSTEM—CLAREMONT MEN'S COLLEGE	ZIP CODE 91711			
ELLIOTT, WARD E.....	AMERICAN LAW AND POPULATION CONTROL.....	POP	1R01 HD09062-01	22,362
ORGANIZATION TOTAL	1 22,362			
CLAREMONT COLLEGES SYSTEM—POMONA COLLEGE	ZIP CODE 91711			
ALLEN, CHARLES F.....	LIPIDS OF ALGAE AND MICROORGANISMS.....	MBC	5R01 AI04788-13	46,330
HANSCH, CORWIN H.....	CORRELATION OF BIOLOGICAL ACTIVITY AND STRUCTURE.....	COM	5R01 CA11110-15	97,396
ORGANIZATION TOTAL	2 143,726			
<b>CULVER CITY</b>				
MEMORIAL CANCER RESEARCH FOUNDATION OF SOUTHERN CALIFORNIA	ZIP CODE 90230			
PLOTKIN, DAVID M.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	1P01 CA17740-01	26,000
ORGANIZATION TOTAL	1 26,000			
<b>DAVIS</b>				
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT DAVIS	ZIP CODE 95616			
ABBOTT, URSULA K.....	COMPARATIVE PESTICIDES EFFECTS ON SEVERAL AVIAN SPECIES.....	SSS	1R01 ES00907-01	14,853
ANDREWS, NEIL C.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12274-05	29,468
BALCH, ALAN L.....	METAL COMPLEXATION: DIAZENES, OXYGEN, IMIDAZOLE/FLAVINS.....	MCHB	5R01 GM18357-06	31,108
BALDWIN, RANSOM L.....	METABOLIC CHANGES DURING EARLY LACTATION.....	MET	5R01 AM07672-12	37,663
BASKIN, RONALD J.....	ULTRASTRUCTURE AND FUNCTION OF SARCOPLASMIC RETICULUM.....	CBY	5R01 HL12978-06	26,533
BEAMAN, BLAINE L.....	MECHANISMS CONTROLLING NOCARDIAL PATHOGENESIS.....	BM	1R01 AI13167-01	47,878
BENISEK, WILLIAM F.....	STEROID BINDING SITES OF STEROID BINDING PROTEINS.....	PC	2R01 AM14729-05A1	49,326
BENJAMINI, ELIEZER.....	STUDY OF IMMUNOLOGICAL CONTROL OF NEOPLASIAS.....	ET	5R01 CA14839-02	55,089
BOYD, JAMES B.....	MOLECULAR AND GENETIC STUDIES.....	GEN	2R01 GM16298-07	41,602
BRADFORD, G ERIC.....	GENETIC AND ENDOCRINE CONTROL OF PRENATAL LOSS.....	HED	5R01 HD07252-02	64,142
BRADY, F PAUL.....	NEUTRON-INDUCED REACTIONS IN TISSUE RESIDENT ELEMENTS.....	RAD	1R01 CA16261-01	155,116
CHAYKIN, STERLING.....	BIOLOGICAL OXIDATION REDUCTION MECHANISMS.....	BIO	2R01 GM19563-12A2	40,383
CLIFFORD, ANDREW J.....	DIET AND PURINE METABOLISM IN GOUT.....	NTN	5R01 AM16726-03	32,975
COLBY, CLARENCE, JR.....	INTERFERON SYSTEM: A GENETIC AND BIOCHEMICAL ANALYSIS.....	SSS	5R01 AI11886-02	56,589
CONN, ERIC E.....	METABOLISM OF AROMATIC COMPOUNDS.....	PC	5R01 GM05301-18	61,524
CRIDDLE, RICHARD S.....	THE CHEMICAL FORCES STABILIZING PROTEIN STRUCTURE.....	BIO	5R01 GM10017-13	62,598
CROSS, CARROLL E.....	OXYGEN TOXICITY: BASIC AND CLINICAL STUDIES.....	PTHA	1R01 HL17957-01	33,701
CURRY, DONALD L.....	FACTORS CONTROLLING AND MODIFYING INSULIN SECRETION.....	MET	5R01 AM17668-02	42,870
DOI, ROY H.....	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION.....	MBC	5R01 GM19673-03	39,529
DUNGWORTH, DONALD L.....	PULMONARY EFFECTS OF ENVIRONMENTAL OXIDANT POLLUTANTS.....	SSS	3P01 ES00628-04S1	61,241
ETZLER, MARILYNN E.....	THE DEVELOPMENT OF CELL SURFACE COMPONENTS.....	CBY	2R01 GM17744-04A1	54,532
ETZLER, MARILYNN E.....	STRUCTURE, DEVELOPMENT, AND MODIFICATIONS OF LECTINS.....	BBCB	1R01 GM21882-01	48,565
FEENEY, ROBERT E.....	INHIBITORS OF PROTEOLYTIC ENZYMES.....	BBCA	2R01 AM13686-07	32,165
FEENEY, ROBERT E.....	COMPARATIVE BIOCHEMISTRY OF PROTEINS.....	PC	5R01 HD00122-11	43,177



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
FOWLER, WILLIAM M. JR.	PATHOPHYSIOLOGICAL BASES OF MUSCLE DISEASES	AMP	5P01 AM16716-02	402,847
FREEDLAND, RICHARD A.	INFLUENCE OF NUTRITION ON ENZYME SYSTEMS	MET	2R01 AM04732-14	42,991
GABOR, ANDREW J.	MINIATURE POSTSYNAPTIC POTENTIAL OF EPILEPTOGENIC CORTEX	NEUA	2R01 NS10332-03A1	39,836
GARDNER, ERNEST D.	DEVELOPMENTAL NEUROBIOLOGY IN PRIMATES	HDPB	5P01 HD08658-02	216,338
GEEL, STANLEY E.	BIOCHEMISTRY OF CNS DEVELOPMENT IN THYROID INSUFFICIENCY	NEUB	2R01 NS10118-04	55,604
GESCHWIND, IRVING I.	PITUITARY AND HYPOTHALAMIC PROTEINS AND PEPTIDES	END	5R01 HD00394-14	55,998
GREEN, MELVIN M.	GENETIC AND EVOLUTIONARY STUDIES WITH DROSOPHILA	SSS	1P01 GM22221-01	367,145
GRUENWEDDEL, DIETER W.	TOXICOLOGY OF MERCURY AT CELLULAR-SUBCELLULAR LEVELS	TOX	1R01 ES01115-01	42,055
GULYASSY, PAUL F.	CONTROL AND ACTION OF CYCLIC AMP	END	2R01 AM16769-03	44,021
HALSTED, CHARLES H.	INTESTINAL ABSORPTION OF FOLATES IN HEALTH AND DISEASE	NTN	1R01 AM18330-01	60,241
HANSEN, ROBERT J.	INSULIN AND ENZYME TURNOVER IN ADIPOSE AND LIVER	MET	5R01 AM15059-05	51,987
HANSEN, ROBERT J.	HORMONAL CONTROL OF MUSCLE PROTEIN DEGRADATION	END	5R01 AM16648-02	20,041
HEDRICK, JERRY L.	A MOLECULAR APPROACH TO FERTILIZATION	CBY	2R01 HD04906-06	77,224
HENDRICKX, ANDREW G.	EXPERIMENTAL STUDIES ON OROFACIAL DEVELOPMENT	DEN	5R01 DE03927-02	45,789
HERSHEY, JOHN W.	MECHANISM OF INITIATION OF PROTEIN BIOSYNTHESIS	MBY	1R01 GM22135-01	69,548
HOEPFICH, PAUL D.	MECHANISMS OF RESISTANCE TO ANTIMICROBICS	BM	5R01 AI08955-07	33,209
HSIEH, DENNIS P.	TOXIC FUNGAL POLYKETIDES	TOX	5R01 ES00612-05	59,713
HSIEH, DENNIS P.	METABOLISM OF AFLATOXIN B1	TOX	5R01 ES00801-02	49,333
HURLEY, LUCILLE S.	NUTRITIONAL FACTORS IN MAMMALIAN DEVELOPMENT	NTN	5R01 HD01743-10	42,900
HURLEY, LUCILLE S.	GENETIC AND NUTRITIONAL INTERACTIONS IN DEVELOPMENT	NTN	2R01 HD02355-09	60,457
INGRAHAM, JOHN L.	PHYSIOLOGY OF BACTERIA AT LOW TEMPERATURE	PC	5R01 AI05526-13	48,086
INGRAHAM, LLOYD L.	THIAMINE FUNCTION IN NERVE TISSUE	BIO	3R01 GM08285-13S1	5,811
KADO, CLARENCE I.	TUMOR-INDUCING SUBSTANCE OF AGROBACTERIUM TUMEFACIENS	ET	5R01 CA11526-06	34,685
KIGER, JOHN A. JR.	GENETICS OF CYCLIC NUCLEOTIDE METABOLISM	GEN	2R01 GM21137-02	26,638
KILGORE, WENDELL W.	ENVIRONMENTAL IMPACT OF CHLORINATED HYDROCARBONS	SSS	5P01 ES00054-11	234,215
KILGORE, WENDELL W.	STUDY OF PARATHION AS A PUBLIC HEALTH HAZARD	SSS	5P01 ES00735-02	249,183
KILLAM, KEITH F. JR.	STUDIES OF PHOTOMYOCLONIC EPILEPSY	SSS	5R01 NS08935-05	123,071
KOZEK, WIESLAW J.	IMMUNOBIOLOGY OF BRUGIA MALAYI	TMP	5R22 AI12095-02	31,039
KREBS, EDWIN G.	THE REGULATORY ENZYMES OF GLYCOGEN METABOLISM	BIO	5R01 AM12842-07	167,453
KUSTU, SYDNEY G.	GENETIC STUDIES OF GLUTAMINE SYNTHETASE IN BACTERIA	MBC	3R01 GM21307-01S1	9,297
KUSTU, SYDNEY G.	GENETIC STUDIES OF GLUTAMINE SYNTHETASE IN BACTERIA	MBC	5R01 GM21307-02	25,550
LA MAR, GERD N.	STRUCTURAL AND DYNAMIC STUDY OF MODEL HEME COMPLEXES	BBCB	5R01 HL16087-02	37,174
LENN, NICHOLAS J.	CYTOLOGICAL STUDIES OF BRAIN SYNAPSES	NEUA	1R01 NS12265-01	54,186
LEWIS, JERRY P.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	5R10 CA14450-03	41,637
LORENZ, FREDERICK W.	SPERM PHYSIOLOGY IN INDUCTION OF ABNORMAL DEVELOPMENT	REB	1R01 HD08753-01	23,180
MACKENZIE, MALCOLM R.	STUDIES OF AUTOIMMUNE HEMOLYTIC ANEMIA	HEM	5R01 AM15650-04	23,814
MACKENZIE, MALCOLM R.	HUMAN MULTIPLE MYELOMA CELL ANTIGENS	IMB	1R01 CA17192-01	65,469
MARR, ALLEN G.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07700-10	76,288
MASON, DEAN T.	MECHANISMS AND TREATMENT OF CARDIOVASCULAR DISEASES	HCP	5P01 HL14780-03	344,256
MASON, WILLIAM A.	PSYCHOSOCIAL DEVELOPMENT	EXP	5R01 HD06367-04	119,112
MEARES, CLAUDE F.	BIFUNCTIONAL CHELATING AGENTS IN TUMOR LOCALIZATION	MCHB	1R01 CA16861-01A1	56,541
MEIZEL, STANLEY	BIOCHEMICAL STUDIES OF IN VITRO SPERM CAPACITATION	REB	5R01 HD06698-02	42,541
MEIZEL, STANLEY	STUDIES OF AN INACTIVE TESTES AND SPERM TRYPSIN	REB	1R01 HD07893-01A1	36,673
MOBERG, GARY P.	EXTRAHYPOTHALAMIC REGULATION OF ACTH: ROLE OF 5-HT	NEUA	2R01 NS09800-04A1	15,778
MULLONEY, BRIAN	PHYSIOLOGICAL MECHANISMS PRODUCING ORDERED MOVEMENT	PHY	1R01 NS12295-01	58,111
O'GRADY, LOIS F.	CRYOPRESERVATION OF HUMAN MARROW	HEM	5R01 CA15411-02	27,950
OSBURN, BENNIE I.	ROLE OF IMMUNITY IN CONGENITAL DISEASE	VR	5R01 HD05828-04	42,368
PAPPAGIANIS, DEMOSTHENES	ROLE OF LYMPHOCYTES IN IMMUNITY TO COCCIDIOIDOMYCOSIS	BM	5R01 AI12158-02	36,760
PREISS, JACK	REGULATION OF POLYSACCHARIDE SYNTHESIS	BIO	5R01 AI05520-13	85,148
PRITCHARD, WILLIAM R.	SUPPORT FOR REGIONAL PRIMATE RESEARCH CENTER	PME	2P06 RR00169-14	1,452,228
PRITCHARD, WILLIAM R.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05457-13	94,300
RABINOWITZ, LAWRENCE	RENAL EXCRETION OF ORGANIC NON-ELECTROLYTES	PHY	5R01 AM12367-08	51,584
RAVENTOS, ANTOLIN	EXPLORATORY STUDIES IN CANCER RESEARCH	CAP	1P01 CA17419-01	202,596
RENKIN, EUGENE M.	REGULATORY MECHANISMS IN BLOOD CIRCULATION	PHY	1R01 HL17998-01	52,368
RENKIN, EUGENE M.	CAPILLARY TRANSPORT OF LARGE MOLECULES	CVB	1R01 HL18010-01	79,436
RICK, CHARLES M.	CYTOGENETICS OF DIFFERENTIATED CHROMOSOMES	GEN	5R01 GM20492-03	31,433
RIGGINS, RICHARD S.	THE STUDY OF SCOLIOSIS	SCGB	5R01 AM15278-02	23,520
ROGERS, QUINTON R.	THE ROLE OF NUTRITION IN FOOD INTAKE REGULATION	NTN	5R01 AM13252-06	54,058
RUCKER, ROBERT B.	EXPERIMENTAL ATHEROSCLEROSIS AND ELASTIN METABOLISM	NTN	5R01 HL15965-03	27,306
RUEBNER, BORIS H.	BILE PIGMENT METABOLISM IN FETAL AND NEWBORN MONKEYS	HED	5R01 HD07331-02	35,536

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
SALEI, ANTONIO F.....	DYNAMICS OF LIPOPROTEIN STRUCTURE AND ATHEROSCLEROSIS.....	MET	5R01 HL16559-02	100,172
SCHMID, CARL W. JR.....	THE ARRANGEMENT OF REPETITIVE SEQUENCES IN HUMANS.....	MBY	5R01 GM21346-02	29,182
SCHNEIDER, ROBERT.....	ANIMAL NEOPLASM REGISTRY (ALAMEDA-CONTRA COSTA, CAL.).....	EDC	3R01 CA14916-02S1	30,195
SCHNEIDER, ROBERT.....	SUPPORT FOR REGISTRY OF ANIMAL NEOPLASMS.....	EDC	2R01 CA14916-03	209,739
SCHWABE, CALVIN W.....	HOST-PARASITE RELATIONSHIPS IN PARASITIC ZOONOSSES.....	EDC	5R01 AI07857-09	29,575
SCIBIENSKI, ROBERT J.....	CONTROL OF IGM AND IGG ANTIBODY SYNTHESIS.....	ALY	5R01 AI11837-02	38,286
SCOBEY, ROBERT P.....	DETECTION OF VISUAL IMAGE DISPLACEMENTS.....	VISB	1R01 EY01495-01	37,046
SEGEL, IRWIN H.....	POLYSACCHARIDE METABOLISM OF FUNGI.....	MBC	5R01 AI07560-08	26,148
STARR, MORTIMER P.....	THE PHYTOPATHOGENIC BACTERIA.....	BM	5R01 AI08426-19	47,865
STERN, JUDITH S.....	PHYSICAL ACTIVITY CARBOHYDRATE METABOLISM AND OBESITY.....	MET	7R01 AM18899-01	52,170
STOWELL, ROBERT E.....	EFFECTS OF SEX ON COLON CARCINOGENESIS.....	SRC	5R26 CA15962-02	51,613
STUMPF, PAUL K.....	MECHANISMS OF DESATURATION OF FATTY ACIDS.....	PC	2R01 GM19213-04	51,916
TAPPEL, ALOYS L.....	NUTRITIONAL FUNCTION OF SELENIUM.....	NTN	5R01 AM06424-13	40,495
TAPPEL, ALOYS L.....	FREE RADICAL LIPID PEROXIDATION DAMAGE.....	PC	5R01 AM09933-18	38,732
THEILEN, GORDON H.....	SARCOMA VIRUS (FESV) INDUCED TUMORS.....	IMB	1R01 CA16869-01	62,954
TRAUT, ROBERT R.....	RIBOSOME STRUCTURE AND FUNCTION.....	PC	5R01 GM17924-05	89,603
TROY, FREDERIC A.....	CHEMISTRY AND BIOSYNTHESIS OF CELL-SURFACE POLYMERS.....	MBC	5R01 AI09352-06	52,342
TROY, FREDERIC A.....	MEMBRANE-BOUND ENZYME INTERACTIONS AND GROWTH CONTROL.....	SSS	1R01 CA17327-01	94,103
TUPPER, C. J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05684-07	165,086
WAGMAN, IRVING H.....	PHYSIOLOGIC CUTANEOUS SENSORY MECHANISMS.....	NEUB	3R01 NS07844-04A1S1	13,301
WALSH, DONAL A.....	HORMONALLY MEDIATED HEPATIC PROTEIN PHOSPHORYLATION.....	MET	5R01 AM13613-07	54,643
WATSON, DAVID W.....	EXPERIMENTAL IMMUNE COLITIS DUE TO BACTERIAL ANTIGENS.....	BM	5R01 AM15171-03	55,580
WHEELIS, MARK L.....	GENETIC CONTROL OF CATABOLIC PATHWAYS.....	MBC	5R01 GM18916-04	27,071
WILSON, BARRY W.....	TOXICANTS AND AVIAN CELL GROWTH AND METABOLISM.....	TOX	2R01 ES00202-07	44,637
WILSON, BARRY W.....	STUDY OF MUSCULAR DYSTROPHY.....	NEUB	5R01 NS10957-02	35,833
WILSON, LOWELL D.....	THE ADRENAL MITOCHONDRIAL HYDROXYLATING SYSTEM.....	END	5R01 AM16173-02	43,747
WOOLLEY, DOROTHY E.....	PHYSIOLOGICAL EFFECTS OF CHRONIC EXPOSURE TO TOXICANTS.....	TOX	5R01 ES00163-08	47,520
YANG, SHANG F.....	BIOCHEMICAL EFFECTS AND REACTIONS OF SULFUR DIOXIDE.....	TOX	1R01 ES01045-01	35,799
ZEMAN, FRANCES J.....	EFFECT OF FETAL GROWTH RETARDATION ON INTESTINES.....	HED	5R01 HD06465-03	41,331
ZEMAN, FRANCES J.....	THYROID AXAL DEVELOPMENT IN FETAL PROTEIN DEPRIVATION.....	NTN	1R01 HD08499-01A1	54,838
ORGANIZATION TOTAL	114	8,947,805		
<b>DOWNEY</b>				
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT-RANCHO LOS AMIGOS HOSPITAL ZIP CODE 90242				
BEIGELMAN, PAUL M.....	MODIFICATION OF PENTOSE SHUNT & INSULIN RELEASE IN VITRO.....	MET	5R01 AM16956-02	44,176
BELL, KARL A.....	ACUTE EFFECTS OF SMOG AEROSOLS IN MAMMALS.....	TOX	1R01 ES01152-01	58,227
BRODY, GARRY S.....	IN VIVO RHEOLOGY OF MATURING HUMAN SKIN AND BURN SCAR.....	SGVA	1R01 GM21603-01	58,133
HACKNEY, JACK D.....	SUPPORT FOR CENTER FOR ENVIRONMENTAL LUNG DISEASES.....	SRC	5P17 HL15098-04	416,611
MAZUR, HAROLD.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05542-13	83,040
PERRY, JACQUELIN.....	QUANTITATED FUNCTION CORRELATED WITH PHYSICAL IMPAIRMENT.....	AFY	5R01 AM17432-02	32,932
SELVESTER, RONALD H.....	INFARCT SIZE: ECG, ANGIO. PATH. CORRELATIONS.....	CVB	1R01 HL17532-01	67,495
ORGANIZATION TOTAL	7	760,614		
<b>DUARTE</b>				
CITY OF HOPE MEDICAL CENTER ZIP CODE 91010				
BEUTLER, ERNEST.....	DIAGNOSIS AND THERAPY OF GAUCHER'S DISEASE.....	MET	5R01 AM14755-05	82,989
BEUTLER, ERNEST.....	THE FORMATION AND SURVIVAL OF RED BLOOD CELLS.....	SSS	5R01 HL07449-13	127,921
BURTON, JOHN E.....	CEREBELLAR CORRELATES OF MOTOR PERFORMANCE.....	NEUB	5R01 NS11798-02	16,638
COMINGS, DAVID E.....	PHYSIOLOGY AND BIOCHEMISTRY OF HUMAN CHROMOSOMES.....	GEN	2R01 GM15886-09	91,693
COMINGS, DAVID E.....	IN VITRO STUDIES OF AGING AND DNA.....	GEN	5R01 HD03637-08	34,478
DUBUC, PAUL U.....	CNS REGULATION OF GLUCOSE METABOLISM.....	END	1R01 AM17683-01	29,099
EGAN, MARIANNE L.....	CHARACTERIZATION OF GASTROINTESTINAL GLYCOPROTEINS.....	SRC	1R26 CA17491-01	46,274
HAMMERSCHLAG, RICHARD.....	TRANSMITTER RELEASE AND METABOLISM BY 3H-DNFB ASSAY.....	NEUA	5R01 NS09885-03	18,191
HOLDEN, JOSEPH T.....	FACTORS AFFECTING BACTERIAL TRANSPORT SYSTEM ACTIVITY.....	MBC	5R01 GM20395-03	45,700
IKEDA, KAZUO.....	PHYSIOLOGY OF SYNAPSES IN NORMAL AND MUTANT ANIMALS.....	PHY	5R01 NS07442-09	26,391
IKEDA, KAZUO.....	NEURAL MECHANISM OF MUTANT PHENOTYPES.....	PHY	5R01 NS11513-02	23,084
KAPLAN, WILLIAM D.....	GENETICS AND BEHAVIOR OF NEUROLOGICAL MUTANTS.....	GEN	5R01 NS08014-08	52,252

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
KLEVECZ, ROBERT R.	SYNCHRONIZED CELLS: CONTROLS IN GROWTH AND DIVISION	MBY	2R01 CA10619-07	66,994
KLEVECZ, ROBERT R.	TEMPORAL ORDER AND AGING IN CULTURED SOMATIC CELLS	MBY	5R01 HD04699-06	70,919
LEVINE, RACHMIEL	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05471-13	147,319
LIEBERMAN, JACK	ALPHA-1-ANTITRYPSIN DEFICIENCY IN PULMONARY EMPHYSEMA	PTHA	5R01 HL13398-06	56,671
MATSUBARA, SHOJI M.	BIOCHEM GENETICS OF ALPHA1-ANTITRYPSIN ABNORMALITIES	ALY	1R01 HL17535-01	46,405
MC CAMAN, RICHARD E.	THE CHEMISTRY OF PLASTIC CHANGES IN NEURONS	NEUA	5R01 NS09339-05	55,602
MELNYK, JOHN	METHODOLOGY FOR PRODUCTION OF ANEUPLOID ANIMAL MODELS	GEN	1R01 HD09265-01	29,689
MITTMAN, CHARLES	GENETIC AND ENVIRONMENTAL INFLUENCES ON LUNG DISEASE	CVB	5R01 HL12833-06	44,389
OHNO, SUSUMU	SEX AND AGING STUDIED IN MUTANT MICE	GEN	1R01 AG00042-01	46,154
RAPPAPORT, HENRY	SUPPORT FOR LYMPHOMA REFERENCE CENTER	CCI	7R10 CA18044-01	124,985
RIGGS, ARTHUR D.	REGULATORY PROTEIN IN E. COLI AND EUKARYOTIC CELLS	MBG	5R01 HD04420-06	51,638
ROBERTS, EUGENE	NITROGEN METABOLISM OF NERVOUS TISSUE	NEUA	5R01 NS01615-17	103,589
ROBERTS, EUGENE	NEUROTRANSMISSION AND NEUROLOGICAL DISEASE	NSPB	1P01 NS12116-01	249,826
ROBERTS, EUGENE	SYMPOSIUM ON GAMMA-AMINO-BUTYRIC ACID	NSS	1R13 NS12269-01	10,000
SEECOF, ROBERT L.	DIFFERENTIATION OF NEURONS AND RELATED CELLS IN VITRO	NEUB	5R01 NS09330-05	68,053
SOLOMON, JOEL	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	5R10 CA07585-12	83,203
TEPLITZ, RAYMOND L.	GENETIC REGULATION IN LEUKEMIA	IMB	1R01 CA17223-01	48,809
TODD, CHARLES W.	IMMUNOLOGY AND IMMUNOCHEMISTRY OF TUMOR ANTIGENS	ALY	2R01 CA12631-04	91,271
TODD, CHARLES W.	CORE GRANT: TUMOR IMMUNOLOGY AND CHEMISTRY	CAK	1P01 CA16434-01	232,350
VAUGHN, JAMES E.	DEVELOPMENT OF SPINAL CORD IN GENETICALLY DIFFERENT MICE	NEUB	5R01 NS09578-06	49,500
WIMER, RICHARD E.	GENETIC MANIPULATIONS OF AMMON'S HORN	NEUB	5R01 NS10284-03	49,264
WU, JANG-YEN	STUDIES OF NEURONAL AND GLIAL GLUTAMATE DECARBOXYLASES	NEUB	5R01 NS10622-03	17,327
YOSHIDA, AKIRA Y.	MOLECULAR PATHOLOGY OF GENETIC DISORDERS IN MAN	GEN	5R01 HL15125-03	105,883
ORGANIZATION TOTAL	35	2,444,550		
<b>ELDRIDGE</b>				
CALIFORNIA STATE HEALTH AND WELFARE AGENCY—SONOMA STATE HOSPITAL ZIP CODE 95431				
MC KEAN, CHARLES M.	EFFECT OF AMINO ACIDS ON METABOLISM, EEG, AND BEHAVIOR	NEUA	5R01 HD01823-12	102,980
ORGANIZATION TOTAL	1	102,980		
<b>HAYWARD</b>				
CALIFORNIA STATE UNIVERSITY AND COLLEGES—HAYWARD STATE UNIVERSITY ZIP CODE 94542				
LIVSON, NORMAN	ADOLESCENT ANTECEDENTS OF FAMILY SIZE	POP	1R01 HD09191-01	34,821
ORGANIZATION TOTAL	1	34,821		
<b>IRVINE</b>				
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT IRVINE ZIP CODE 92664				
ARDITTI, JOSEPH	BIOLOGICAL EFFECTS OF SURFACTANTS	CBY	5R01 ES00726-02	37,422
ARFIN, STUART M.	AMINOACYL - tRNA SYNTHETASE FORMATION IN ANIMAL CELLS	MBY	5R01 GM21002-02	34,872
ARMENTROUT, STEVEN A.	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	1P01 CA13948-01A1	66,070
ARMENTROUT, STEVEN A.	WESTERN CANCER STUDY GROUP	CCI	5R10 CA14472-03	14,494
ARMENTROUT, STEVEN A.	MECHANISMS OF FIBRINOGEN SYNTHESIS	HEM	5R01 HL16198-02	29,535
ARQUILLA, EDWARD R.	IMMUNOLOGY STRUCTURE SITE AND ACTION OF INSULIN	MET	5R01 AM13441-07	87,950
BERNS, MICHAEL W.	IN VITRO STUDY OF FUNCTION OF HEART CELLS	CVA	5R01 HL15740-03	118,172
BODE, HANS R.	REGULATION OF MULTIPOTENT CELL DIFFERENTIATION	CBY	5R01 HD08086-02	33,177
CAMPBELL, RICHARD D.	EFFECT OF EXPERIMENTAL NERVE DEPLETION ON DEVELOPMENT	MBY	1R01 NS12446-01	31,603
CLARK, JEFFREY L.	POLYAMINES AND GROWTH CONTROL IN 3T3 CELLS	MBY	1R01 GM21854-01	42,468
CONNOLLY, JOHN E.	TREATMENT OF ENDOTOXIN SHOCK BY TOTAL BODY WASHOUT	SGYB	1R01 GM20990-01A1	41,401
COTMAN, CARL W.	SYNAPTIC MEMBRANE STRUCTURE AND FUNCTION	NEUB	3R01 NS08597-06S1	37,525
CUNNINGHAM, DENNIS D.	INITIATION OF FIBROBLAST DIVISION BY GLUCOCORTICOIDS	MBY	5R01 CA12306-05	51,218
DETTMAN, GERALDINE L.	MYELOMA PROTEINS, MECHANISMS OF SYNTHESIS REGULATION	ALY	5R01 CA15671-02	40,183
FELSHER, BERTRAM F.	STUDIES ON HEPATIC BILIRUBIN TRANSPORT	GMA	5R01 AM18088-02	33,195
GRANGER, GALE A.	LYMPHOCYTE RELEASED CELL TOXIN	ALY	2R01 AI09460-06	94,195
HALL, PETER F.	BIOCHEMISTRY OF CYTOCHROME P.450; STEROID HYDROXYLATION	END	5R01 AM15621-02	30,739
HALL, PETER F.	STUDY OF ADRENAL TUMOR CELLS	END	5R01 CA14638-03	58,689
HAYES, SIDNEY J.	ROLE OF LAMBDA OOP RNA IN DNA REPLICATION	SSS	1R01 GM21958-01	44,692



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
IBSEN, KENNETH H.	METABOLIC INTERRELATIONSHIPS	BIO	5R01 CA07883-11	40,643
ISERI, LLOYD T.	EMERGENCY PACING IN PRE-HOSPITAL CARDIAC ARREST	SRC	1R01 HL18773-01	30,609
JAFFE, NORMAN R.	ENZYMOLGY OF NORMAL AND ABNORMAL LIMB DEVELOPMENT	HED	1R01 HD09117-01	50,582
JOSEPHSON, ROBERT K.	COMPONENTS CONTROLLING BEHAVIOR	PHY	5R01 NS10336-04	32,876
KOHUT, ROBERT J.	VESTIBULAR AND AUDITORY FUNCTION OF THE SACculus	SSS	5R01 NS10522-03	108,365
KRASSNER, STUART M.	METABOLISM AND TRANSFORMATION IN HEMOFLAGELLATES	TMP	5R01 AI06827-10	31,141
LENHOFF, HOWARD M.	MECHANISM OF ACTION OF PEPTIDE NEUROTRANSMITTERS	BBCB	5R01 NS11171-03	33,026
LYNCH, GARY S.	INTEGRATIVE NEUROANATOMY	NEUA	5R01 NS11589-02	26,313
MANNING, JERRY E.	GENE SEQUENCE ORGANIZATION IN DROSOPHILA MEANOGASTER	GEN	1R01 GM22207-01	65,526
MC GAUGH, JAMES L.	PSYCHOPHYSIOLOGY OF MEMORY AND AGING	EXP	3R01 HD07981-01S1	12,078
MC LAUGHLIN, CALVIN S.	COMPARATIVE STRUCTURE AND FUNCTION OF RIBOSOMES	PC	5R01 CA10628-08	59,090
MOLDAVE, KIVIE	MECHANISM OF PROTEIN BIOSYNTHESIS	BIO	5R01 AM15156-05	74,867
MOORE, HAROLD W.	REACTIONS OF AZIDOQUINONES WITH NUCLEOPHILES-MITOMYCIN	MCHA	5R01 CA11890-06	58,039
MOSIER, H DAVID, JR.	MECHANISMS CONTROLLING GROWTH RATE	END	5R01 HD07074-02	44,844
MOVED, HARRIS S.	REGULATORY MECHANISMS AND CHEMOTHERAPEUTIC TARGETS	PC	5R01 AI10214-05	67,700
OVERMAN, LARRY E.	REDUCTIVE CLEAVAGE OF REACTIVE DISULFIDES—MODEL STUDIES	MCHB	1R01 GM20674-01	24,470
OVERMAN, LARRY E.	CHOLINERGIC AGENTS—HISTRIONICOTOXIN SYNTHESIS	MCHA	1R01 NS12389-01	47,524
PISZKIEWICZ, DENNIS	STRUCTURES OF AMINOACYL-tRNA SYNTHETASES	PC	2R01 GM19508-04	40,255
RAIDT, DONALD J.	REGULATORY EVENTS IN CELL-MEDIATED IMMUNE RESPONSES	IMB	5R01 CA15965-02	40,892
SASSIN, JON F.	GROWTH HORMONE AND STEROID RELEASE IN SLEEP	END	5R01 AM18064-02	48,578
SCHNEIDERMAN, HOWARD A.	METABOLISM AND HORMONES IN ARTHROPODS	TMP	5R01 AI10527-05	67,060
SCHNEIDERMAN, HOWARD A.	GENETICALLY CONTROLLED MALIGNANT NEOPLASMS	GEN	5R01 CA12643-04	41,316
SCHNEIDERMAN, HOWARD A.	GENETIC ANALYSIS OF BASIC DEVELOPMENTAL MECHANISMS	GEN	5R01 HD06082-04	70,019
SCHNEIDERMAN, HOWARD A.	GENETIC ANALYSIS OF BASIC DEVELOPMENTAL MECHANISMS	GEN	2R01 HD06082-05	85,387
SCHNEIDERMAN, HOWARD A.	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	5S05 RR07008-10	53,448
SKLANSKY, JACK	COMPUTER-AIDED IMAGE RECOGNITION	COM	3R01 GM17632-04S1	21,196
STARR, ARNOLD	AUDITORY BRAINSTEM RESPONSES IN NEUROLOGICAL DISEASE	CMS	1R01 NS11876-01	130,110
SUTHERLAND, BETSY M.	THE PHOTOREACTIVATING ENZYME IN REPAIR OF DNA	RAD	5R01 CA14005-03	44,864
SYPERD, PAUL S.	GENETIC CONTROL OF RIBOSOME ASSEMBLY	MBC	2R01 GM18293-05	61,783
TAFT, ROBERT W.	HYDROGEN BONDING AND IONIC SOLVATION BY FMNR AND ICR	BBCB	5R01 GM14078-10	66,319
THOMPSON, RICHARD F.	CENTRAL NEURAL MECHANISMS OF HEARING	CMS	7R01 NS12268-01	57,131
VALENTA, LUBOMIR J.	THYROGLOBULIN STRUCTURE AND THYROID HORMONE SYNTHESIS	END	7R01 AM18645-01	12,481
VAN DEN NOORT, STANLEY	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05351-14	144,552
VERZEANO, MARCEL	ACTIVITY IN THE NEURONAL NETWORKS OF THE BRAIN	EXP	5R01 NS07145-08	49,434
WAGNER, EDWARD K.	CONTROL OF VIRAL RNA SYNTHESIS IN HERPES VIRUS INFECTION	VR	5R01 CA11861-06	48,742
WARNER, ROBERT C.	STUDIES OF POLYNUCLEOTIDES AND NUCLEIC ACIDS	BIO	5R01 CA12627-06	91,840
WAYMIRE, JACK C.	REGULATION OF ADRENERGIC METABOLISM	NEUB	5R01 NS11061-02	41,600
WHALEN, RICHARD E.	HORMONAL CONTROL OF BEHAVIOR	EXP	5R01 HD00893-12	65,543
WILSON, ARCHIE F.	PULMONARY PARENCHYMAL TISSUE VOLUME	CVA	1R01 HL16703-01A1	42,690
WISHNOW, RODNEY M.	EFFECT OF ENTEROTOXINS ON ADRENAL TUMOR CELLS	BM	1R01 CA16868-01	27,798
WOOLFOLK, CLIFFORD A.	THE REGULATION OF GLUTAMINE SYNTHETASE	BIO	3R01 CA08390-09S1	2,206
ORGANIZATION TOTAL	60	3,090,537		

## LA JOLLA

### SALK INSTITUTE FOR BIOLOGICAL STUDIES

ZIP CODE 92037

BELLUGI-KIJMA, URSULA	THE ACQUISITION OF SIGN LANGUAGE AND ITS STRUCTURE	CMS	5R01 NS09811-05	117,652
BOURGEOIS-COHN, SUZANNE	STUDIES OF REGULATION IN E. COLI EXTENDED TO LYMPHOMAS	SSS	5R01 GM20868-02	99,851
BYRD, WILLIAM J.	ISOLATION OF A T-CELL SUBSTITUTE FROM FETAL SERA	IMB	5R01 AI11327-02	49,895
BYRD, WILLIAM J.	T-T CELL COLLABORATION AND TUMOR CELL DESTRUCTION	IMB	5R01 CA15964-02	70,556
COHN, MELVIN	ANTIBODY SYNTHESIS	ALY	5R01 AI05875-11	176,224
ECKHART, WALTER	VIRAL GENE FUNCTIONS AND REGULATION OF CELL GROWTH	VR	5R01 CA13884-03	99,312
FAN, HUNG Y.	RNA METABOLISM OF CELLS INFECTED WITH RNA TUMOR VIRUSES	VR	5R01 CA15747-02	67,580
FARRON, FRANCOISE T.	THE ROLE OF ALTERED GENE EXPRESSION IN NEOPLASMS	PTHB	1R01 CA17497-01	59,890
FRANCKE, BERTOLD R.	EARLY GENES OF POLYOMA VIRUS AND DNA REPLICATION	VR	5R01 CA15058-02	75,469
GOSPODAROWICZ, DENIS J.	OVARIAN GROWTH FACTOR AND CONTROL OF OVARIAN TUMORS	END	5R01 HD07651-03	69,058
GOSPODAROWICZ, DENIS J.	LH RECEPTOR SITES IN LUTEAL CELLS, LUTEOTROPHIC FACTORS	REB	5R01 HD08180-02	38,257
GUILLEMIN, ROGER C.	BRAIN PEPTIDES ON PITUITARY FUNCTIONS & IN DIABETES	SSS	1P01 AM18811-01	314,344
GUILLEMIN, ROGER C.	NEUROENDOCRINOLOGY OF REPRODUCTION AND GROWTH	HDPR	1P01 HD09690-01	780,606

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
GUILLEMIN, ROGER C.....	UPGRADING LABORATORY ANIMAL FACILITY AND ANIMAL CARE.....	AR	5P06 RR00770-02	3,750
HATLEN, LOREN E.....	CELLULAR AND HUMORAL INTERACTIONS IN TUMOR IMMUNITY.....	IMB	5R01 CA13171-03	70,398
HEINEMANN, STEPHEN F.....	FORMATION OF SYNAPSES IN CLONAL CELL LINES.....	MBY	5R01 NS11549-02	40,966
HOLLEY, ROBERT W.....	FACTORS REQUIRED FOR MAMMALIAN CELL DIVISION.....	CBY	5R01 CA11176-07	106,709
HOLLEY, ROBERT W.....	CORE GRANT - REGULATION, THE CELL MEMBRANE AND CANCER.....	CAP	5P01 CA14195-02	354,811
HUNTER, ANTHONY R.....	MACROMOLECULAR SYNTHESIS AND CELL GROWTH CONTROL.....	CBY	1R01 CA17096-01	64,795
HYMAN, ROBERT A.....	GENETIC BASIS OF ANTIGENIC VARIATION.....	IMB	2R01 CA13287-04	38,850
HYMAN, ROBERT A.....	GENETIC ANALYSIS OF GROSS LEUKEMIA ANTIGENS.....	IMB	1R01 CA17020-01	86,385
JACOBS, DIANE M.....	MODE OF ACTION OF A STIMULATOR OF TUMOR RESISTANCE.....	IMB	3R01 CA17025-01S1	44,304
JACOBS, DIANE M.....	MODE OF ACTION OF A STIMULATOR OF TUMOR RESISTANCE.....	IMB	5R01 CA17025-02	114,999
JAENISCH, RUDOLF J.....	CELLULAR DIFFERENTIATION AND VIRAL ONCOGENESIS.....	VR	5R01 CA15561-02	97,099
KIDOKORO, YOSHIKI.....	MUSCLE DIFFERENTIATION AND SYNAPSE FORMATION IN VITRO.....	PHY	1R01 NS11918-01	76,399
LEFFERT, HYAM L.....	STUDY OF TISSUE REGENERATION IN ANIMALS.....	CBY	5R01 CA14312-02	64,606
LENNON, VANDA A.....	T AND B CELLS IN EXPERIMENTAL ALLERGIC ENCEPHALITIS.....	IMB	5R01 NS11719-02	103,035
LINDSTROM, JON M.....	STUDIES USING PURIFIED ACETYLCHOLINE RECEPTOR.....	IMB	5R01 NS11323-02	65,988
ORGEI, LESLIE E.....	EVOLUTION OF GENETIC SPECIFICITY.....	MCHA	2R01 GM13435-10	77,806
PAUL, DIETRICH.....	GROWTH CONTROL OF SV40 VIRUS TRANSFORMED 3T3 CELLS.....	MBY	5R01 CA15087-02	71,517
PAUL, DIETRICH.....	GROWTH CONTROL BY SERUM FACTORS IN LIVER CELLS.....	MBY	2R01 GM20101-04	74,576
PINTO DA SILVA, PEDRO G.....	PLASMA MEMBRANES OF NORMAL AND CANCER CELLS.....	MBY	5R01 CA15114-02	71,651
RANGANATHAN, R S.....	SYNTHESIS AND CHEMOTHERAPY OF NUCLEIC ACID ANALOGS.....	MCHA	2R01 CA12960-03A1	64,417
SALK, JONAS E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05595-11	176,644
SCHUBERT, DAVID R.....	PHYSIOLOGY OF NERVE, GLIAL, AND MUSCLE CELL LINES.....	MBY	5R01 NS09658-05	78,482
SEFTON, BARTHOLOMEW M.....	VIRAL MEMBRANES: STRUCTURE AND BIOSYNTHESIS.....	VR	1R01 CA17289-01	61,026
SHER, W THOMAS.....	ESTERASES AND AMIDASES IN ONCOGENIC TRANSFORMATION.....	MBY	5R01 CA16123-02	58,887
TROWBRIDGE, IAN S.....	CELL SURFACE PROTEINS OF T AND B LYMPHOCYTES.....	IMB	1R01 CA17133-01	61,865
VERMA, INDER M.....	DNA POLYMERASES OF AVIAN AND MURINE RNA TUMOR VIRUSES.....	VR	1R01 CA16561-01	58,125
VOGT, MARGUERITE M.....	FUNCTION OF VIRAL GENES INVOLVED IN TRANSFORMATION.....	GEN	5R01 CA13608-04	110,328
WALTER, GERNOT F.....	CELL SURFACE PROTEINS, POLYOMA AND SV40 GENE PRODUCTS.....	CBY	5R01 CA15365-02	45,290
WATSON, JAMES D.....	THE INDUCTION OF ANTIBODY SYNTHESIS.....	ALY	5R01 AI11092-02	63,990
WESTALL, FREDERICK C.....	CHEMICAL REQUIREMENTS FOR HYPERACUTE ENCEPHALOMYELITIS.....	ALY	1R01 NS12391-01	86,993
ORGANIZATION TOTAL	43	4,513,385		
<b>SCRIPPS CLINIC AND RESEARCH FOUNDATION ZIP CODE 92037</b>				
ARROYAVE, CARLOS M.....	IMPORTANCE OF ALTERNATE COMPLEMENT PATHWAY IN DISEASE.....	ALY	1R01 AI12594-01	76,716
BOKISCH, VIKTOR A.....	COMPLEMENT ACTIVATION IN HEMORRHAGIC SHOCK SYNDROME.....	ALY	5R22 AI11751-02	38,487
BOKISCH, VIKTOR A.....	C-RECEPTOR DEPENDENT LYSIS OF MALIGNANT CELLS.....	ALY	1R01 CA18570-01	35,808
COOPER, NEIL R.....	CANCER CELL SURVIVAL AND MECHANISMS OF CYTOTOXICITY.....	IMB	5R01 CA14692-03	71,251
CRAWFORD, IRVING P.....	MUTATIONAL PERTURBATION OF SUBUNIT INTERACTIONS.....	MBC	1R01 GM21810-01	53,883
CROSBY, WILLIAM H.....	STUDY OF IRON METABOLISM.....	HEM	5R01 AM16452-02	50,761
CROSBY, WILLIAM H.....	BONE MARROW INJURY AND REPAIR.....	HEM	3R01 AM16501-03S1	1,836
CROSBY, WILLIAM H.....	BONE MARROW INJURY AND REPAIR.....	HEM	5R01 AM16501-04	51,988
DANDLIKER, WALTER B.....	INCREASED CELLULAR IMMUNOGENICITY OF SV40-INDUCED TAA.....	IMB	3R01 CA11650-03S3	22,605
DAVID, GARY S.....	ENHANCEMENT AND CELLULAR IMMUNITY IN TUMOR SYSTEMS.....	PTHB	5R01 CA15586-02	52,773
DAWSON, ARTHUR D.....	PULMONARY BLOOD FLOW DISTRIBUTION IN MAN.....	CVA	5R01 HL10009-10	34,274
DIXON, FRANK J.....	IMMUNOPATHOLOGIC STUDIES.....	SSS	5P01 AI07007-10	1,447,351
DIXON, FRANK J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05514-13	240,489
EDGINGTON, THOMAS S.....	IMMUNOGENESIS OF AUTOIMMUNE HEMOLYTIC ANEMIA.....	ALY	1R01 AM18163-01	70,188
EDGINGTON, THOMAS S.....	HUMAN TUMOR-ASSOCIATED MOLECULAR EXPRESSIONS-CEA.....	ALY	3R01 CA14346-02S1	15,595
FERRONE, SOLDANO.....	ALLOGRAFTS AND SENSITIZATION DETECTED BY LYMPHOBLASTS.....	IMB	1R01 AI13154-01	51,113
FERRONE, SOLDANO.....	ANTIGENS AND ANTIBODIES IN HUMAN MELANOMA.....	ALY	1R01 CA16069-01A1	49,999
GOLDSTEIN, DAVID A.....	MATURATION OF RNA AND DNA IN TUMOR VIRUS INFECTION.....	VR	3R01 CA11151-06S1	8,454
GOLDSTEIN, DAVID A.....	MATURATION OF RNA AND DNA IN TUMOR-VIRUS INFECTION.....	VR	2R01 CA11151-07	39,144
HANSTEIN, WALTER G.....	PHOTOAFFINITY-LABELING OF MITOCHONDRIA BY UNCOUPLERS.....	BIO	5R01 GM19734-03	23,584
HANSTEIN, WALTER G.....	PHOTOAFFINITY-LABELING OF MITOCHONDRIAL COMPONENTS.....	BIO	2R01 GM19734-04	51,925
HATEFI, YOUSSEF.....	ENERGY GENERATION AND CONSERVATION IN MITOCHONDRIA.....	BIO	5R01 AM08126-12	95,870
HATEFI, YOUSSEF.....	SENESCENCE, MALIGNANCY AND MEMBRANE DESTABILIZATION.....	MBY	3R01 CA13609-03S1	6,535
HENSON, PETER M.....	RELEASE OF INJURIOUS CONSTITUENTS FROM CELLS.....	PTHA	5R01 GM19322-04	76,300
HOCH, JAMES A.....	GENETIC CONTROL OF DEVELOPMENT.....	GEN	5R01 GM19416-04	57,136
HOCH, JAMES A.....	CONTROL OF ENZYME SYNTHESIS AND REGULATION.....	MBC	5R01 GM19674-02	27,435
HOCH, SALLIE O.....	DNA-BINDING PROTEINS IN HUMAN SERUM.....	PC	1R01 CA17563-01	41,897



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
HOCH, SALLIE O.	TRYPTOPHAN BIOSYNTHESIS IN BACILLUS SUBTILIS	MBG	3R01 GM18627-04S1	5,770
HUENNEKENS, FRANK M.	CHEMISTRY AND MECHANISM OF ACTION OF FOLATE COENZYMES	BIO	5R01 CA06522-14	145,983
HUENNEKENS, FRANK M.	CONTROL OF RIBONUCLEOTIDE REDUCTION IN EUKARYOTES	BIO	3R01 CA13657-05S1	5,823
ITO, JUNETSU	MEMBRANE SYNTHESIS AND SPORULATION	MBG	5R01 GM20055-02	38,014
LEWIS, URBAN J.	CONVERSION PRODUCTS OF GROWTH HORMONE AND PROLACTIN	END	5R01 AM09537-10	89,816
LONGMIRE, ROBERT L.	HODGKIN'S DISEASE AND LYMPHORETICULAR ACTIVITIES	IMB	5R01 CA13465-02	47,551
MC MILLAN, ROBERT	PATHOGENESIS OF THE IMMUNE THROMBOCYTOPENIAS	HEM	5R01 AM16125-04	53,541
MC MILLAN, ROBERT	LYMPHOCYTE FUNCTION IN LUPUS AND RHEUMATOID ARTHRITIS	ALY	5R01 AM16994-02	51,353
MEINKE, GERALDINE C.	INHIBITION OF PCT BY IMMUNIZATION WITH MYELOMA PROTEINS	PTHB	1R01 CA16541-01	35,737
MEINKE, WILLIAM J.	CMONA IN NORMAL AND MALIGNANT CELLS	MBY	5R01 CA13434-04	53,941
MEINKE, WILLIAM J.	DETECTION OF HUMAN WART VIRAL DNA IN MALIGNANT TISSUE	VR	1R01 CA17244-01	34,918
MORGAN, WILLIAM T.	SERUM PROTEIN FUNCTION IN ORGANIC ANION TRANSPORT	GMA	1R01 HD09252-01	24,480
MULLER-EBERHARD, URSULA	HEMOGLOBIN METABOLISM CLINICAL AND BASIC APPROACH	HEM	3R01 AM16737-12S1	22,271
MULLER-EBERHARD, URSULA	STUDY OF METABOLISM OF HEMOGLOBIN	HEM	5R01 AM16737-13	41,977
MULLER-EBERHARD, URSULA	DISTRIBUTION OF IRON AND HEME BY PROTEINS	GMA	1R01 AM18329-01	108,267
MULLER-EBERHARD, URSULA	CARCINOGEN METABOLIZING ENZYMES IN RAT LIVER	BIO	1R01 CA17735-01	41,340
MULLER-EBERHARD, URSULA	PERINATAL DETOXIFICATION MECHANISMS	TOX	3R01 HD04445-05S2	10,891
MULLER-EBERHARD, URSULA	PERINATAL DETOXIFICATION MECHANISMS	HED	2R01 HD04445-06	114,169
OLDSTONE, MICHAEL B.	CHRONIC DISEASE CAUSED BY PERSISTENT VIRAL INFECTION	VR	5R01 AI09484-06	67,557
OLDSTONE, MICHAEL B.	PATHOGENESIS OF M. SCLEROSIS & A.L. SCLEROSIS	NSPA	1P01 NS12428-01	253,522
PELLEGRINO, MICHELE A.	SOLUBLE HLA ANTIGENS IN THE SERA OF CANCER PATIENTS	PTHB	5R01 CA16071-02	53,626
PLOW, EDWARD F.	THE ALTERNATIVE PATHWAY FOR FIBRINOLYSIS	HEM	1R01 HL17964-01	62,614
REISFELD, RALPH A.	BIOL. PROPERTIES AND CHEMICAL STRUCTURE OF HLA ANTIGENS	IMB	5R01 AI10180-05	108,082
RUSSELL, STEPHEN W.	CELL MEDIATED INJURY CAUSING TUMOR REGRESSION	IMB	1R01 CA17720-01	116,796
SPIEGELBERG, HANS L.	STUDIES OF IMMUNOGLOBULIN SUBCLASSES	ALY	5R01 AI10734-04	88,243
SPIZIZEN, JOHN	COMPETENCE FOR GENETIC TRANSFER OF DNA	MBG	1R01 AI2452-01	51,514
SPIZIZEN, JOHN	CONTROL OF THE TRANSPORT OF BIOLOGICALLY ACTIVE DNA	MBG	1R01 GM20145-01	45,290
STOUGHTON, RICHARD B.	PERCUTANEOUS ABSORPTION AND EFFECTS OF ANTIMETABOLITES	GMA	5R01 AM11649-07	77,190
STRUM, WILLIAMSON B.	BIOCHEMICAL BASIS FOR INTESTINAL ANTIFOLATE TOXICITY	ET	1R01 CA17809-01	53,289
TAN, ENG M.	NUCLEAR ANTIGENS IN SYSTEMIC LUPUS ERYTHEMATOSUS	IMB	5R01 AM12198-09	91,778
ULEVITCH, RICHARD J.	HAGEMAN FACTOR ACTIVATED SYSTEMS IN LUNG DISEASE	YIP	1R23 HL18376-01	39,105
VANDERLAAN, WILLARD P.	ROLE OF GH AND PROLACTIN IN MAMMARY CARCINOGENESIS	REB	5R01 CA14025-03	108,030
VAUGHAN, JOHN H.	INVESTIGATIONS IN BRONCHIAL ASTHMA	AIRC	5P15 AI10386-05	94,020
VAUGHAN, JOHN H.	MYELOMA-INDUCED INHIBITOR OF LYMPHOCYTE FUNCTION	ALY	5R01 CA14126-03	68,206
VOLD, BARBARA S.	ROLE OF TRNA IN CELLULAR REGULATORY MECHANISMS	PC	5R01 GM17421-06	54,198
WEIGLE, WILLIAM O.	REGULATION OF THE IMMUNE RESPONSE	ALY	1R01 AI12449-01	29,261
WELSH, RAYMOND M., JR.	THE ROLE OF DEFECTIVE VIRUS IN CHRONIC VIRUS DISEASE	VR	1R01 AI12438-01	40,790
WHITELEY, JOHN M.	CHEMISTRY OF FOLATE AND PTERIDINE COENZYMES	ET	5R01 CA11778-06	90,296
WHITELEY, JOHN M.	PTERIDINE-DEPENDENT HYDROXYLASES FROM LIVER AND BRAIN	PC	1R01 GM22125-01	23,003
ZIMMERMAN, THEODORE S.	BLOOD COAGULATION: PLATELET-PLASMA PROTEIN INTERACTION	HEM	5R01 HL15491-03	35,630
ORGANIZATION TOTAL	67	5,371,279		
<b>SCRIPPS MEMORIAL HOSPITAL ZIP CODE 92037</b>				
HENSON, PETER M.	PATHOGENESIS OF INFLAMMATORY LUNG INJURY	PTHA	1R01 HL17786-01	104,702
ORGANIZATION TOTAL	1	104,702		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO ZIP CODE 92037</b>				
ABELSON, JOHN N.	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACIDS	PC	5R01 CA10984-07	57,323
AKESON, WAYNE H.	FIXATION OF FRACTURES WITH CARBON COMPOSITE PLATES	SSS	2R01 AM15478-04	72,218
ALEXANDER, NICHOLAS M.	IODINE METABOLISM AND THYROXINE BIOSYNTHESIS	END	3R01 AM15778-03S1	7,188
ALEXANDER, NICHOLAS M.	IODINE METABOLISM AND THYROXINE BIOSYNTHESIS	END	2R01 AM15778-04	38,537
ALKSNE, JOHN F.	STEREOTACTIC THROMBOSIS OF INTRACRANIAL ANEURYSMS	NEUB	1R01 NS11843-01	50,529
ALLISON, WILLIAM S.	SULFENIC ACIDS AS FUNCTIONAL GROUPS OF ENZYMES	BIO	5R01 GM16974-06	38,026
ASHRAF, MUHAMMAD	ISCHEMIC HEART ULTRASTRUCTURE: MODIFICATION BY THERAPY	PTHA	1R01 HL18122-01	61,926
BAILY, NORMAN A.	TUMOR LOCALIZATION AND TREATMENT PLANNING	RAD	1R01 CA14535-01A1	85,689
BAXT, WILLIAM G.	ROLE OF RNA TUMOR VIRUSES IN HUMAN LEUKEMIA	VR	1R01 CA15376-01A2	105,036
BECKER, MICHAEL A.	REGULATION OF PURINE NUCLEOTIDE SYNTHESIS IN MAN	MET	1R01 AM18197-01	53,762
BERNSTEIN, EUGENE F.	DEVELOPMENT OF BLOOD PUMP FOR TOTAL BODY PERFUSION	SGBY	5R01 HL16269-02	48,737
BICKFORD, REGINALD G.	AUTOMATIC PATTERN RECOGNITION ON ELECTROENCEPHALOGRAM	COM	5R01 NS08962-07	131,451
BLANTZ, ROLAND C.	AUTOREGULATION OF GLOMERULAR FILTRATION RATE	GMB	5R01 HL14914-03	24,672

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
BLUESTEIN, HARRY G.....	IMMUNE RESPONSIVENESS AND HISTOCOMPATIBILITY TYPE.....	ALY	2R01 AI10931-04	68,344
BOYNTON, ROBERT M.....	PSYCHOPHYSIOLOGICAL AND OPTICAL STUDIES OF VISION.....	VISB	7R01 EY01541-01	53,573
BOYNTON, ROBERT M.....	PSYCHOPHYSIOLOGICAL AND OPTICAL STUDIES OF VISION.....	VISB	5R01 EY01541-02	66,983
BRAUDE, ABRAHAM I.....	LETHAL BACTEREMIA.....	BM	5R01 AI10108-05	86,330
BRAUDE, ABRAHAM I.....	GONOCOCCAL INFECTION.....	BM	5R01 AI11643-02	58,256
BRAUDE, ABRAHAM I.....	EXPERIMENTAL PYELONEPHRITIS.....	PTHA	9R01 AI12476-06	76,292
BRODY, STUART.....	BIOCHEMISTRY OF CIRCADIAN RHYTHMS IN NEUROSPORA.....	MBC	1R01 GM21842-01	22,030
BROWN, WILLIAM V.....	IMMUNOCHEMICAL STUDY OF LIPOLYTIC ENZYMES.....	MET	5R01 HL13304-06	36,049
BROWN, WILLIE C.....	THIRD COLLEGE RESEARCH PROGRAM.....	GRS	1S06 RR08135-01	139,181
BULLOCK, THEODORE H.....	STUDIES IN COMPARATIVE NEUROPHYSIOLOGY.....	PHY	5R01 NS00021-27	111,484
BULLOCK, THEODORE H.....	STUDIES IN COMPARATIVE NEUROPHYSIOLOGY.....	PHY	2R01 NS00021-28	142,725
BUONASSISI, VINCENZO.....	CELLULAR SYNTHESIS AND RELEASE OF MUCOPOLYSACCHARIDES.....	GMA	7R01 HL17995-01	70,247
BUTLER, WARREN L.....	PHOTORECEPTOR PIGMENTS IN PHOTORESPONSIVE ORGANISMS.....	BBCA	5R01 GM20648-02	55,515
CHARTERS, ALEXANDER C.....	STUDIES ON THE HUMORAL CONTROL OF LIVER REGENERATION.....	SGYB	5R01 AM17103-02	71,330
COUTTS, RICHARD D.....	EFFECT OF DELAYED INTERNAL FIXATION ON FRACTURE HEALING.....	AFY	5R01 AM16625-02	36,607
DE VRIES, ARTHUR L.....	SERUM GLYCOPROTEINS AS CRYOPROTECTIVE AGENTS.....	BBCA	5R01 GM21127-02	33,464
DEFTOS, LEONARD J.....	PEPTIDE HORMONES IN CALCIUM AND SKELETAL METABOLISM.....	GMB	5R01 AM15888-03	48,508
DENNIS, EDWARD A.....	ACTION OF LIPOLYTIC ENZYMES.....	PC	3R01 GM20501-01A1S1	1,000
DOOLITTLE, RUSSELL F.....	MOLECULAR BASIS AND REGULATION OF FIBRIN FORMATION.....	HEM	5R01 HL12759-06	99,482
DUTTON, RICHARD W.....	CELLULAR EVENTS IN THE IMMUNE RESPONSE.....	IMB	5R01 AI08795-07	111,480
FAHEY, ROBERT C.....	ROLE OF THIOL-DISULFIDE REACTIONS IN CELL DORMANCY.....	BIO	1R01 GM22122-01	53,530
FANESTIL, DARRELL D.....	ALDOSTERONE STIMULATION OF ION TRANSPORT.....	GMB	5R01 AM14915-05	96,542
FANESTIL, DARRELL D.....	STERIOD HORMONAL EFFECTS ON RENAL CARCINOMA.....	END	5R01 CA15796-02	58,774
FAULKNER, DAVID J.....	ISOLATION OF ANTIBIOTICS FROM MARINE ORGANISMS.....	MCHA	5R01 AI11969-02	37,402
FEHER, GEORGE.....	ESR EXPERIMENTS ON BIOLOGICAL SYSTEMS.....	BBCA	5R01 GM13191-11	117,216
FRANCKE, UTA.....	INTRACHROMOSOMAL GENE MAPPING IN MAN.....	GEN	5R01 GM21110-02	78,775
FRIEDKIN, MORRIS E.....	NEW ANTAGONISTS OF AMETHOPTERIN-RESISTANT LEUKEMIA.....	ET	2R01 CA11449-06	85,528
FRIEDMAN, WILLIAM F.....	CARDIOVASCULAR EVALUATION OF INFANTS AND CHILDREN.....	CVB	1R01 HL17334-01	67,285
FRIEDMANN, THEODORE.....	PROTEINS IN ONCOGENIC VIRUSES: POLYOMA AND SV40.....	VR	5R01 CA16115-02	75,840
FRONEK, KITTY.....	THE SYMPATHETIC NERVOUS SYSTEM AND THE ARTERIAL WALL.....	CVB	1R01 HL16768-01A1	47,771
FUNG, YUAN-CHENG B.....	CONTINUUM MECHANICS IN BIOPHYSICS.....	CVA	2R01 HL12494-07	39,147
GALAMBOS, ROBERT.....	BRAIN STEM AUDIOMETRY IN INFANTS AND CHILDREN.....	CMS	1R01 NS11707-01A1	39,389
GEIDUSCHEK, E PETER.....	STUDIES ON NUCLEIC ACIDS AND NUCLEOPROTEINS.....	VR	5R01 GM18386-05	122,047
GILL, GORDON N.....	HORMONAL REGULATION OF CONTROL MECHANISMS.....	END	5R01 AM13149-08	90,098
GITTES, RUBEN F.....	HORMONAL DEPENDENCE OF PROSTATE CANCER.....	SRC	5R26 CA15441-02	84,810
GLUCK, LOUIS.....	BIOCHEMICAL DEVELOPMENT OF SURFACE ACTIVITY OF LUNG.....	HED	5R01 HD04380-05	103,049
GOODMAN, MURRAY.....	SYNTHESIS AND STRUCTURE/FUNCTION OF PEPTIDE HORMONES.....	BBCA	2R01 AM15410-05	62,371
GOODMAN, MURRAY.....	CONFORMATION OF BIOPOLYMERS AND PEPTIDE HORMONES.....	BBCA	5R01 GM18694-04	60,352
GOULIAN, MEHRAN.....	STUDIES ON DNA SYNTHESIS.....	PC	2R01 CA11705-06	95,283
GREEN, MELVIN H.....	ONCOGENIC DNA VIRUS TRANSCRIPTION IN VITRO.....	VR	5R01 CA16181-02	54,923
GROSS, STEPHEN R.....	BIOCHEMISTRY OF INHERITED VARIATIONS IN DRUG RESPONSE.....	MET	5R01 GM20412-03	41,974
GRUNDY, SCOTT M.....	RESEARCHES ON CAUSES AND TREATMENT OF GALLSTONES.....	GMA	5R01 AM16667-02	45,775
GRUNDY, SCOTT M.....	STUDY OF DIETS AND DRUGS AFFECTING LIPID METABOLISM.....	GMA	5R01 HL15556-03	50,625
GRUNDY, SCOTT M.....	METABOLIC DEFECTS IN FAMILIAL HYPERLIPIDEMIAS.....	MET	1R01 HL17471-01	76,563
HALASZ, NICHOLAS A.....	STUDIES IN LUNG PRESERVATION.....	SGYB	1R01 HL17944-01	46,773
HAMBURGER, ROBERT N.....	DEVELOPMENT AND GENETICS OF IGE AND ALLERGY.....	GEN	5R01 HD06634-02	46,090
HAMMEL, HAROLD T.....	THERMOREGULATORY AND OSMOREGULATORY RESPONSES.....	PHY	5R01 NS11704-02	54,160
HARDISON, WILLIAM G.....	TAURINE METABOLISM AND BILE ACID CONJUGATION IN MAN.....	GMA	7R01 AM18289-01	11,353
HARDISON, WILLIAM G.....	TAURINE METABOLISM AND BILE ACID CONJUGATION IN MAN.....	GMA	5R01 AM18289-02	16,362
HARPER, ELVIN.....	DEGRADATIVE MECHANISMS OF COLLAGEN IN HEALTH AND DISEASE.....	PC	3R01 AM17779-01S1	5,984
HAYASHI, MASAKI.....	SYNTHESIS OF INFECTIOUS BACTERIOPHAGE PARTICLES.....	PC	5R01 GM12934-11	78,970
HAYASHI, MASAKI.....	IN VITRO DNA-DIRECTED SYNTHESIS OF NEURONAL PROTEIN.....	BIO	2R01 NS10111-04	42,844
HELINSKI, DONALD R.....	STRUCTURE AND GENETIC CONTROL OF COLICINES.....	MBC	2R01 AI07194-10	124,399
HOLLAND, JOHN J.....	SYNTHESIS IN NORMAL, VIRUS-INFECTED, AND TUMOR CELLS.....	VR	5R01 CA10802-08	117,160
HOSTETLER, KARL Y.....	MEMBRANE PHOSPHOLIPID METABOLISM IN TUMORS.....	PC	5R01 CA15694-02	22,244
HOUGIE, CECIL.....	GENETIC STUDY OF V. WILLEBRAND'S DISEASE AND HEMOPHILIA.....	HEM	5R01 HL15230-02	68,224
HOUGIE, CECIL.....	ARTERIAL LESIONS AND THROMBOEMBOLISM.....	PTHA	5R01 HL16255-02	35,904
HOWELL, STEPHEN H.....	INHIBITORY AGENT AND MUTANT EFFECTS ON THE CELL CYCLE.....	CVB	1R01 GM21579-01	28,923
INTAGLIETTA, MARCOS.....	BIOENGINEERING ANALYSIS OF MICROVASCULAR FUNCTION.....	CBA	2R01 HL12493-07A1	80,461
ITANO, HARVEY A.....	STUDIES IN MOLECULAR HEMATOLOGY.....	HEM	5R01 AM14982-05	45,070

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
JOBE, ALAN H.	SURFACE ACTIVE LECITHIN AT BIRTH.....	YIP	1R23 HL18375-01	36,753
JONES, OLIVER W. JR.	BIOCHEMISTRY OF CHROMOSOME FUNCTION IN MAN.....	GEN	5R01 CA13639-04	49,319
KAGNOFF, MARTIN F.	GASTROINTESTINAL LYMPHOID CELL FUNCTIONS.....	IMB	3R01 AM17276-01S1	14,393
KAGNOFF, MARTIN F.	GASTROINTESTINAL LYMPHOID CELL FUNCTIONS.....	IMB	5R01 AM17276-02	51,976
KAMEN, MARTIN D.	MOLECULAR BASIS FOR FUNCTION OF BACTERIAL METALLOPROTEIN.....	BBCA	5R01 GM18528-14	171,349
KAPLAN, NATHAN O.	STUDIES ON COENZYMES AND NUCLEIC ACID METABOLISM.....	BIO	5R01 CA11683-06	82,778
KNIAZEFF, ALEXIS J.	CARCINOGENESIS OF COLON CANCER IN ORGAN CULTURE.....	SRC	1R26 CA17126-01	61,372
KOODYMAN, GERALD L.	COMPARATIVE STUDY OF AIRWAY STRUCTURES AND LUNG FUNCTION.....	PHY	5R01 HL16157-02	54,695
KRAUT, JOSEPH	THE CRYSTAL STRUCTURE OF DIHYDROFOLATE REDUCTASE.....	BBCB	1R01 CA17374-01	73,281
KRAUT, JOSEPH	CRYSTALLOGRAPHIC STUDY OF BIOLOGICAL MOLECULES.....	BBCB	5R01 GM10928-13	125,462
KRAUT, JOSEPH	IMPLEMENTATION OF A LABORATORY AUTOMATION SYSTEM.....	COM	5P07 RR00757-03	160,832
KUNG, FAITH H.	COOPERATIVE STUDY OF ACUTE LEUKEMIA.....	CCI	2R10 CA11789-06	82,599
KYTE, JACK E.	MOLECULAR STRUCTURE OF THE OUABAIN SENSITIVE ATPASE.....	MBY	1R01 HL17879-01	72,836
LAMPERT, PETER W.	FINE STRUCTURAL PATHOLOGY OF MYELIN.....	NEUB	5R01 NS09053-06	59,923
LAMPERT, PETER W.	PATHOLOGY OF CHOROID PLEXUS.....	NEUB	1R01 NS11739-01A1	43,011
LASSER, ELLIOTT C.	LUNG CANCER. VIDEOENSITOMETRY FOR MASS SCREENING.....	RAD	5R01 CA13683-03	31,601
LASSER, ELLIOTT C.	THE TISSUE PARTITIONS AND TOXICITY OF CONTRAST MEDIA.....	RAD	5P01 GM16593-07	242,287
LONG, DAVID M.	NEW APPLICATIONS OF RADIOPAQUE FLUOROCARBONS.....	RAD	2R01 GM20998-02	74,916
LOOMIS, WILLIAM F.	GENETIC REGULATION OF DEVELOPMENT IN DICTYOSTELIUM.....	GEN	5R01 GM19543-03	31,669
MASOUREDIS, SERAFEIM P.	RH COMPLEX OF RED CELLS.....	HEM	5R01 HL12994-06	87,920
MASUI, HIDEO.	CELLULAR FUNCTION AND PROLIFERATION IN CANCER.....	END	5R01 CA12370-05	53,249
MC MORRIS, TREVOR C.	NEW BIOLOGICALLY ACTIVE STEROIDS AND TERPENES.....	MCHB	2R01 GM21350-02	58,152
MENDELSON, JOHN	CONTROL OF IMMUNE AND MALIGNANT LYMPHOCYTE GROWTH.....	PTHB	5R01 CA11971-05	56,098
MENDOZA, STANLEY A.	REGULATION OF PHOSPHATE TRANSPORT IN TOAD BLADDER.....	GMB	5R01 AM16539-03	33,641
MILLER, ARNOLD L.	I-CELL DISEASE AND MENTAL RETARDATION.....	NEUB	1R01 NS12138-01	24,671
MOORE, ROBERT Y.	MOLECULAR BASIS OF CEREBRAL DEGENERATION.....	NEUA	5R01 NS08682-07	86,626
MOORE, ROBERT Y.	HISTOCHEMICAL STUDIES OF BIOGENIC AMINES IN BRAIN.....	NEUB	1R01 NS12080-01	61,102
MOORE, ROBERT Y.	CENTRAL MECHANISMS IN DIURNAL RHYTHM REGULATION.....	NEUA	7R01 NS12267-01	43,533
MOSER, KENNETH M.	SUPPORT FOR PULMONARY DISEASE CENTER.....	SRC	5P17 HL14169-05	581,799
MOKLEY, JOHN H. III	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05665-08	255,345
NGUYEN-HUU, KUONG	A COMPUTER CONTROLLED MULTIREFLECTION DIFFRACTOMETER.....	COM	5R01 GM20102-03	49,095
NORMAN, DONALD A.	COMPUTER-IMPLEMENTED STUDIES OF SENSORY PROCESSING.....	COM	5R01 NS07454-09	96,342
NYHAN, WILLIAM L.	AMINO ACID INTERRELATIONS IN HUMAN METABOLIC DISEASE.....	MET	2R01 HD04608-07	93,031
ORLOFF, MARSHALL J.	STUDIES OF PANCREAS TRANSPLANTATION.....	SGYB	5R01 AM17581-02	85,273
PARKER, DONAL C.	RELEASE OF HGH, HPRL, HLH AND HFSH IN SLEEP-WAKE CYCLES.....	END	5R01 AM17334-03	73,446
PEARCE, ROY H.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07011-10	91,178
PESKIN, GERALD W.	CIRRHOSIS, ASCITES, AND THE HEPATIC CIRCULATION.....	SGYB	5R01 AM15986-04	60,882
PETERS, RICHARD M.	COMPUTER MONITORING OF SURGICAL PATIENTS.....	COM	5R01 GM17284-06	216,055
PETERS, RICHARD M.	POST-TRAUMA LUNG MECHANICS AND PULMONARY HYPERTENSION.....	SGYB	5R01 HL13172-06	45,555
PRICE, PAUL A.	CHEMICAL STUDIES ON PANCREATIC DEOXYRIBONUCLEASE.....	PC	2R01 GM16603-07	65,877
PRINTZ, MORTON P.	ROLE OF ANGIOTENSINOGEN IN HYPERTENSION AND STROKE.....	CVA	5R01 HL15808-03	46,926
PRINTZ, MORTON P.	CONTROLLED INTRATISSUE RELEASE OF PROSTAGLANDINS.....	PHRA	1R01 HL18259-01	43,043
RANNEY, HELEN M.	STUDIES OF THE PROPERTIES OF HEMOGLOBIN.....	PC	2R01 AM17348-02	113,248
RANNEY, HELEN M.	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	1P01 CA16568-01	110,793
RAPAPORT, SAMUEL I.	RELATIONSHIPS BETWEEN COAGULABILITY AND THROMBOSIS.....	HEM	7R01 HL18820-01	204,734
ROBB, JAMES A.	MOLECULAR MECHANISMS OF VIRAL (SV40) CARCINOGENESIS.....	VR	2R01 CA12472-04A1	38,365
ROBB, JAMES A.	MOLECULAR MECHANISMS OF NEUROTROPIC VIRUS DISEASE.....	VR	1R01 NS12382-01	58,824
ROSENFELD, MICHAEL G.	CAMP AND HORMONAL REGULATION OF PROTEIN SYNTHESIS.....	END	1R01 AM18477-01	47,492
ROSS, JOHN, JR.	PHYSIOLOGY AND BIOCHEMISTRY OF CARDIOVASCULAR ADAPTATION.....	HEP	5P01 HL12373-07	949,298
ROSS, JOHN, JR.	STUDY OF ISCHEMIC HEART DISEASE.....	SRC	1P17 HL17682-01	823,983
SAIER, MILTON H. JR.	CYCIC AMP EFFLUX FROM BACTERIA AND RAT GLIOMA CELLS.....	MBY	1R01 CA16521-01A1	94,842
SAIK, RICHARD P.	ANTRAL GASTRIN RELEASE AND THE G-CELL MASS.....	SGYA	1R01 AM17960-01	43,358
SATO, GORDON H.	PROSTATIC HUMAN TUMORS IN CONDITIONED ANIMALS/CULTURE.....	SRC	5R26 CA15503-02	92,046
SATO, GORDON H.	HORMONE DEPENDENT TUMORS AND LOSS OF GROWTH REGULATION.....	CBY	2R01 GM17019-06A1	94,598
SCHAEFFLER, IMMO E.	GENETICS AND BIOCHEMISTRY OF SOMATIC CELLS.....	GEN	2R01 GM18835-04	65,169
SCHULMAN-GALAMBOS, CAROL A.	STUDY OF AUDITORY FUNCTION IN INFANCY.....	DBR	5R01 HD08694-02	39,412
SEEGMILLER, JARVIS E.	ARTHRITIS: INHERITED METABOLIC AND NUTRITIONAL CAUSES.....	GMA	5R01 AM13622-07	123,334
SEEGMILLER, JARVIS E.	STUDY OF HUMAN BIOCHEMICAL GENETICS.....	SSS	2P01 GM17702-06	1,579,271
SELL, STEWART	CELLULAR CONTRIBUTIONS TO IMMUNITY IN RABBITS.....	IMB	5R01 AI11780-02	51,138
SELL, STEWART	THE ROLE OF RABBIT LYMPHOID CELLS IN TUMOR IMMUNITY.....	IMB	1R01 CA16136-01	52,128



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
SELL, STEWART.....	GENE EXPRESSION AND ACTIVATION IN LYMPHOCYTES.....	ALY	5R01 CA16367-02	41,883
SILVERSTON, ALLEN I.....	NEURAL GEOMETRY AND INTEGRATION IN GANGLIA.....	NEUB	5R01 NS09322-05	12,237
SILVERSTON, ALLEN I.....	USE OF AN INTERACTIVE COMPUTER GRAPHIC TECHNIQUE.....	COM	5R01 NS10629-03	48,834
SINGER, S JONATHAN.....	THE STRUCTURE OF ANTIBODY MOLECULES AND CELL MEMBRANES.....	ALY	2R01 AI06659-11	92,436
SINGER, S JONATHAN.....	MOLECULAR APPROACHES TO CELL ULTRASTRUCTURE.....	MBY	5R01 GM15971-08	152,880
SPITZER, NICHOLAS C.....	ANATOMY AND PHYSIOLOGY OF EMBRYONIC SENSORY NEURONS.....	NEUB	5R01 NS11311-02	35,475
STEINBERG, DANIEL.....	SUPPORT FOR CENTER OF RESEARCH ON ARTERIOSCLEROSIS.....	SRC	5P17 HL14197-05	451,729
STEINBERG, DANIEL.....	STUDIES ON THE METABOLIC BASIS OF INHERITED LIPIDOSES.....	MET	5R01 NS08246-07	64,589
STERN, HERBERT.....	STUDY OF DEVELOPMENTAL BIOLOGY.....	HDPR	5P01 HD03015-09	133,407
STONE, RICHARD A.....	HUMAN DOPAMINE-BETA-HYDROXYLASE.....	BIO	1R01 HL18095-01	36,615
STONER, GARY D.....	HORMONE-MEDIATED DIFFERENTIATION OF CULTURED LUNG CELLS.....	MBY	1R01 HL17565-01	39,511
STULL, JAMES T.....	ROLE OF PHOSPHOPROTEIN IN CARDIAC INOTROPIC RESPONSES.....	PHRA	1R01 HL18170-01	46,600
SYBERS, HARLEY D.....	ACCELERATED REPAIR OF ISCHEMIC HEART AFTER THERAPY.....	PTHA	1R01 HL17343-01	45,209
TAYLOR, PALMER W.....	KINETIC STUDIES ON DRUG-PROTEIN COMPLEX FORMATION.....	SSS	2R01 GM18360-04	79,164
TAYLOR, SUSAN S.....	PROTEIN KINASE: PRIMARY STRUCTURE AND C-AMP INTERACTION.....	BIO	2R01 GM19301-04	38,171
TRAYLOR, TEDDY G.....	MECHANISMS OF REACTIONS OF OXYGEN WITH HEME PROTEINS.....	MCHB	5R01 HL13581-08	44,710
VANDERLIP, JACK E.....	ANIMAL RESOURCES EQUIPMENT & FACILITIES PROGRAM.....	AR	5P06 RR00840-03	7,115
VARON, SILVIO S.....	HUMORAL AND CELLULAR INFLUENCES ON NEURAL CELLS.....	NEUA	2R01 NS07606-07	100,914
VOLCANI, BENJAMIN E.....	BIOCHEMICAL STUDIES ON SILICEOUS SKELETAL FORMATION.....	GMB	2R01 GM08229-15	120,551
WEPSIC, HAROLD T.....	EVALUATION OF TUMOR ANTIGEN-DETECTION SYSTEMS.....	IMB	5R01 CA13366-03	39,687
WEST, JOHN B.....	PHYSIOLOGICAL BASIS OF PULMONARY DISEASE.....	HEP	1P01 HL17731-01	477,494
WHEELER, HENRY O.....	BILE PRODUCTION.....	GMA	5R01 AM13097-08	56,403
WILLS, CHRISTOPHER J.....	GENETIC VARIABILITY AT THE BIOCHEMICAL LEVEL.....	GEN	5R01 GM19967-03	68,435
YGUERABIDE, JUAN.....	CONFORMATIONAL DYNAMICS OF EXCITABLE MEMBRANES.....	BBCB	5R01 EY01177-03	27,612
YODIM, SAID.....	INDUCTION OF NONSPECIFIC RESISTANCE TO SYNGENEIC TUMORS.....	PTHB	5R01 CA15240-02	53,128
YODIM, SAID.....	NONSPECIFIC DESTRUCTION OF TUMOR CELLS IN VITRO.....	PTHB	1R01 CA17299-01	12,908
ZIMM, BRUNO H.....	NUCLEIC ACIDS AND CHROMOSOMAL DNA.....	BIO	5R01 GM11916-12	54,678
ZVAIFLER, NATHAN J.....	SYNOVIAL TISSUES IN RHEUMATOID ARTHRITIS.....	GMA	5R01 AM14916-06	63,038
ZWEIFACH, BENJAMIN W.....	STRUCTURE AND FUNCTION OF MICROCIRCULATION.....	CVA	5R01 HL10881-09	165,131
ORGANIZATION TOTAL	162	15,696,432		
<b>LOMA LINDA</b>				
<b>LOMA LINDA UNIVERSITY ZIP CODE 92354</b>				
AUSTIN, GEORGE M.....	SUPPORT FOR STROKE CENTER.....	NSPA	5P17 NS11120-03	86,889
GODFREY, THOMAS E.....	COOPERATIVE STUDY OF CANCER.....	CCI	5R10 CA14568-03	47,135
GODFREY, THOMAS E.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17948-01	61,690
GUSSECK, DAVID J.....	BIOCHEMISTRY OF PLACENTAL DEVELOPMENT AND FUNCTION.....	HED	5R01 HD07036-03	52,113
HINSHAW, DAVID B.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05352-14	99,402
KUZMA, JAN W.....	EPIDEMIOLOGY OF SDA CANCER MORTALITY, 20-YEAR FOLLOW-UP.....	EDC	1R01 CA18186-01	48,476
LONGO, LAWRENCE D.....	PLACENTAL GAS EXCHANGE AND FETAL OXYGENATION.....	HED	5R01 HD03807-07	133,602
NEILSEN, IVAN R.....	DEVELOPMENT OF BIOMEDICAL COMPUTATION FACILITY.....	COM	2P07 RR00276-10	215,961
OLIVER, RICHARD C.....	SUBGINGIVAL PLAQUE INHIBITION AND PERIODONTAL HEALING.....	DEN	5R01 DE03844-02	53,827
PHILLIPS, ROLAND L.....	EPIDEMIOLOGY OF CANCER IN A LOW-RISK GROUP.....	EDC	5R01 CA14703-02	255,176
POWER, GORDON G.....	BLOOD FLOW AND GAS EXCHANGE IN THE PLACENTA AND LUNGS.....	PHY	5R01 HL15655-02	29,174
SMITH, LOUIS L.....	VASCULAR REACTIVITY IN SURGICAL CARE.....	SGVB	5R01 HL04639-16	44,295
ORGANIZATION TOTAL	12	1,127,740		
<b>LONG BEACH</b>				
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE UNIVERSITY, LONG BEACH ZIP CODE 90840</b>				
MARICICH, TOM J.....	POTENTIAL CARCINOSTATIC SULFINYL DERIVATIVES.....	NSS	1R01 CA18838-01	30,933
MARICICH, TOM J.....	POTENTIAL CARCINOSTATIC TRITHIAZIAZINES.....	NSS	7R01 CA18839-01	22,043
ORGANIZATION TOTAL	2	52,976		
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 90801</b>				
BROOK, JACK.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	5R10 CA14506-03	29,630
ORGANIZATION TOTAL	1	29,630		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
<b>LOS ANGELES</b>				
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE UNIVERSITY, LOS ANGELES</b>	<b>ZIP CODE 90032</b>			
BROWN, COSTELLO L	NEGATIVE ION STUDIES OF BIOORGANIC MOLECULES	MCHB	5R01 GM20793-02	36,724
FERGUSON, LLOYD N	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	1S05 RR07152-01	23,145
FERGUSON, LLOYD N	MINORITY STUDENT TRAINING FOR BIOMEDICAL RESEARCH	GRS	5S06 RR08101-03	242,873
FITZPATRICK, DAVID	EFFECTS OF PERINATAL CLOMIPHENE ON RAT SEXUAL BEHAVIOR	HED	5R01 HD07349-02	13,258
GOLDWHITE, HAROLD	HETEROCYCLIC COMPOUNDS CONTAINING PHOSPHORUS	MCHB	5R01 CA07182-12	34,226
ONAK, THOMAS P	BIOLOGICALLY ACTIVE SMALL CAGE BORON DERIVATIVES	MCHB	2R01 CA12128-04	27,848
ORGANIZATION TOTAL	6	378,074		
<b>CEDARS-SINAI MEDICAL CENTER</b>	<b>ZIP CODE 90048</b>			
BRAUNSTEIN, GLENN D	IMMUNODIAGNOSIS OF CANCER WITH CHORIONIC GONADOTROPIN	END	1R01 CA18362-01	46,039
KATZ, JOSEPH	PATHWAYS OF GLUCOSE METABOLISM AND HYDROGEN TRANSPORT	PC	5R01 AM12604-07	107,802
KATZ, JOSEPH	METABOLISM & REDUCING EQUIVALENTS IN ASCITES TUMOR	PC	5R01 CA15735-02	14,643
KLINENBERG, JAMES R	URICOSURIC DRUGS: MECHANISMS OF ACTION	GMB	1R01 AM18261-01	73,020
MENKES, JOHN H	METABOLIC DISEASES OF THE BRAIN	NEUB	7R01 NS12256-01	106,913
MENKES, JOHN H	METABOLIC DISEASES OF THE BRAIN	NEUB	5R01 NS12256-02	107,457
ROSENFELD, SHELDON	PHYSIOLOGICAL STUDIES ON ISOLATED PERFUSED KIDNEY	PHY	5R01 HL04868-15	33,296
RUBENSTEIN, PAUL	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05468-13	121,429
SCHOENFELD, LESLIE J	HEPATIC AND BILIARY ALTERATIONS IN CHOLELITHIASIS	GMA	3R01 AM15631-03S1	4,835
SCHOENFELD, LESLIE J	HEPATIC AND BILIARY ALTERATIONS IN CHOLELITHIASIS	GMA	2R01 AM15631-04	97,697
SWAN, HAROLD J	THE PHYSIOLOGIC CONSEQUENCES OF CARDIAC ISCHEMIA	HEP	5P01 HL15834-03	286,690
SWAN, HAROLD J	ISCHEMIC HEART DISEASE SPECIALIZED CENTER OF RESEARCH	SRC	1P17 HL17651-01	915,835
THOMPSON, RONALD W	EXPLORATORY STUDY SPECIALIZED CANCER CENTER	SRC	1P01 CA17062-01	49,030
ORGANIZATION TOTAL	13	1,964,686		
<b>CHARLES R. DREW POSTGRADUATE MEDICAL SCHOOL</b>	<b>ZIP CODE 90059</b>			
GREENBERG, ROBERT E	HEPATIC GLUCOSE PRODUCTION DURING DEVELOPMENT	MET	5R01 HD06475-02	38,177
GREENBERG, ROBERT E	GENETIC HETEROGENEITY OF HYPERTENSION	EDC	5R01 HL15857-02	62,312
MILLER, MICHAEL E	MULTINSTITUTIONAL BIOMEDICAL RESEARCH AND TRAINING	GRS	1S06 RR08140-01	310,497
MORRIS, JOHN A	PREGNANCY-INDUCED HYPERTENSION: PREVENTION	HED	1R01 HD09398-01	31,408
ORGANIZATION TOTAL	4	442,394		
<b>CHILDREN'S HOSPITAL OF LOS ANGELES</b>	<b>ZIP CODE 90054</b>			
BENEDICT, WILLIAM F	MALIGNANT TRANSFORMATION OF DNA INHIBITORS	ET	5R01 CA14226-03	67,071
BENEDICT, WILLIAM F	CYTOGENETIC DIAGNOSIS AND ETIOLOGY OF HUMAN CANCER	PTHB	5R01 CA15039-02	30,178
BERGREN, WILLIAM R	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05469-13	116,321
DOBSON, JAMES C	STUDY OF DIET DISCONTINUATION IN PKU CHILDREN	DBR	1R01 HD09543-01	96,530
DONNELL, GEORGE N	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	CLR	5M01 RR00086-13	469,364
DUKES, PETER P	MOLECULAR BIOLOGY OF ERYTHROID CELL DIFFERENTIATION	HEM	5R01 AM16999-03	39,363
DUKES, PETER P	PURIFICATION OF HUMAN ERYTHROPOIETIN FOR RESEARCH USE	HEM	2R01 HL10880-09	69,582
HIGGINS, GUSSE	COOPERATIVE STUDY OF CHILDREN'S CANCER	CCI	2R10 CA02649-19	175,973
KOCH, RICHARD	DIET AND MENTAL DEVELOPMENT IN GALACTOSEMIS	NTN	3R01 AM04837-14S1	23,886
MOMPARLER, RICHARD	CELLULAR AND ANIMAL PHARMACOLOGY OF ANTITUMOR AGENTS	ET	3R01 CA11050-07S1	53,018
ORGANIZATION TOTAL	10	1,141,286		
<b>ESTELLE DOHENY EYE FOUNDATION</b>	<b>ZIP CODE 90033</b>			
NESBURN, ANTHONY B	PATHOGENESIS AND TREATMENT OF HERPES SIMPLEX OF THE EYE	VISA	5R01 EY00858-02	116,321
OGDEN, THOMAS E	A STUDY OF STRUCTURE AND FUNCTION OF RETINAL NEURONES	VISB	7R01 EY01671-01	49,015
ORGANIZATION TOTAL	2	165,336		
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE</b>	<b>ZIP CODE 90027</b>			
SADOFF, LEONARD	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	5R10 CA12985-04	63,916
ORGANIZATION TOTAL	1	63,916		
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY-UNIV OF SO CALIFORNIA MED CTR</b>	<b>ZIP CODE 90033</b>			
BALLARD, KATHRYN W	CIRCULATION IN ADIPOSE TISSUE	PHY	3R01 HL14329-03S1	990
BERNSTEIN, SOL	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05466-09	42,982



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
DI SAIA, PHILIP J.	GYNECOLOGY ONCOLOGY GROUP	CCI	5R10 CA13641-04	78,195
FRASHER, WALLACE G. JR.	BLOOD FLOW IN SMALL TUBES AND THE MICROCIRCULATION	CVB	5R01 HL11153-09	42,795
SOBIN, SIDNEY S.	STUDIES IN VASCULAR PHYSIOLOGY	CVB	5R01 HL11152-09	77,618
ORGANIZATION TOTAL	5 242,580			
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—MARTIN LUTHER KING, JR. GENERAL HOSPITAL</b>				
		<b>ZIP CODE 90059</b>		
SATCHER, DAVID	A COMPREHENSIVE HOSPITAL-COMMUNITY SICKLE CELL CENTER	SRC	3P18 HL15997-02S1	16,645
SATCHER, DAVID	A COMPREHENSIVE HOSPITAL-COMMUNITY SICKLE CELL CENTER	SRC	5P18 HL15997-03	385,894
ORGANIZATION TOTAL	2 402,539			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES</b>				
		<b>ZIP CODE 90024</b>		
ADAMS, FORREST H.	RESPIRATORY DISTRESS SYNDROME IN ANIMALS	HED	5R01 HD06341-02	50,385
ADINOLFI, ANTHONY M.	ULTRASTRUCTURAL STUDIES OF DEVELOPING CAUDATE NUCLEUS	NEUA	1R01 NS11932-01	52,449
ALFIN-SLATER, ROSLYN B.	DIETARY FACTORS WHICH MODIFY AFLATOXIN TOXICITY	TOX	5R01 ES00490-06	38,538
AMSTUTZ, HARLAN C.	DEVELOPMENT OF JOINT REPLACEMENTS	AMP	3P01 AM16120-03S1	99,711
ASH, LAWRENCE R.	DEVELOPMENT OF LABORATORY MODELS IN FILARIASIS	TMP	5R22 AI10250-05	66,718
ASSALI, NICHOLAS S.	FETAL AND NEONATAL CARDIOVASCULAR FUNCTIONS	HED	5R01 HL01755-21	117,342
ATKINSON, DANIEL E.	ENZYME-EFFECTOR INTERACTIONS AND METABOLIC REGULATION	PC	5R01 AM09863-10	62,413
AYLING, JUNE E.	INHIBITION OF PTERIDINE ENZYMES IN CANCER CHEMOTHERAPY	ET	5R01 CA15659-02	50,882
BAKER, NOME	FACTORS AFFECTING LIPOGENIC ACTIVATION AND INACTIVATION	NTN	5R01 AM16673-03	35,049
BAKER, NOME	LIPID TRANSPORT, SYNTHESIS AND METABOLISM IN CANCERS	MET	5R01 CA15813-02	42,597
BALUDA, MARCEL A.	TUMOR INDUCTION BY AVIAN MYELOBLASTOSIS VIRUS	VR	5R01 CA10197-09	170,332
BARR, ALLAN R.	CYTOPLASMIC INCOMPATIBILITY IN CONTROL OF FILARIASIS	AIRC	5R22 AI11847-08	39,889
BELKIN, JOHN N.	MOSQUITOES OF MIDDLE AMERICA	TMP	5R01 AI04379-14	64,323
BELLVILLE, J. WELDON	DYNAMIC ISOLATION STUDIES OF CONTROL OF RESPIRATION	CVB	5R01 HL15659-02	68,955
BEVAN, JOHN A.	MORPHOPHARMACOLOGY OF VASCULAR ADRENERGIC TRANSMISSION	PHRA	5R01 HL08359-11	48,095
BEVAN, JOHN A.	CEREBRAL ARTERIAL REACTIVITY AND CEREBRAL VASOSPASM	PHRA	5R01 HL15805-03	76,045
BILLING, RONALD J.	SERUM HLA ANTIGENS	ALY	1R01 AI12366-01	48,825
BLAND, WILLIAM H.	USE OF RADIOISOTOPES FOR DETECTION OF COLONIC TUMORS	SRC	2R26 CA15259-03	53,587
BOK, DEAN	ELECTRON MICROSCOPE AUTORADIOGRAPHY OF OCULAR TISSUES	VIS	5R01 EY00444-07	31,192
BOYER, PAUL D.	CORE GRANT FOR PARVIN CANCER RESEARCH LABORATORIES	CAK	1P01 CA16163-01	36,380
BOYER, PAUL D.	ENZYMIC PHOSPHORYLATIONS AND RELATED MECHANISMS	BIO	2R01 GM11094-13	138,731
BRESLOW, LESTER	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05442-14	81,365
BROWN, JOSIAH	ENDOCRINE FUNCTION OF TRANSPLANTED FETAL PANCREAS	END	1R01 AM17980-01	56,985
BROWN, JOSIAH	DIABETIC PREGNANCY FETAL ANOMALIES: CAUSE, PREVENTION	HED	1R01 HD09409-01	51,558
BROWN, W. JANN	DEVELOPMENTAL BIOLOGY IN MENTAL RETARDATION	HDMR	5P01 HD05615-05	464,013
BROWN, W. JANN	STRUCTURE OF SEIZURE SENSITIVE HUMAN HIPPOCAMPUS	NEUA	1R01 NS12054-01	17,146
BUCHWALD, JENNIFER S.	RESPONSE PLASTICITY DURING INCREASED SYNAPTIC USE	EXP	2R01 NS05437-10	62,556
BUCHWALD, NATHANIEL A.	NEUROPHYSIOLOGY & NEUROPSYCHOLOGY IN MENTAL RETARDATION	HDMR	5P01 HD05958-04	276,445
CARLISLE, EDITH M.	STUDY OF PHYSIOLOGICAL ROLE OF SILICON	NTN	5R01 AM16611-02	50,813
CARNES, WILLIAM H.	VIRUS IN RELATION TO C57BL MOUSE THYMOMA	PTHB	5R01 CA11427-06	68,358
CARNES, WILLIAM H.	CARDIOVASCULAR ABNORMALITIES OF COPPER DEFICIENCY	PTHA	5R01 HL12561-07	112,386
CARSTEN, MARY E.	CHEMISTRY & FUNCTION OF SMOOTH MUSCLE (UTERUS) PROTEIN	PC	5R01 HD00010-12	96,109
CHAO, LI-PEN	STUDIES WITH PURIFIED CHOLINE ACETYLTRANSFERASE	NEUB	5R01 NS11087-02	48,591
CHAPMAN, ORVILLE L.	ORGANIC PHOTOCHEMISTRY	MCHB	7R01 HD09279-01	45,846
CHASE, MICHAEL H.	MATURATION OF SLEEP AND WAKING SOMATOMOTOR ACTIVITY	NEUB	3R01 NS09999-01S3	1,825
CHOPRA, INDER J.	THYROID GLAND PHYSIOLOGY IN HEALTH AND DISEASE	END	2R01 AM16155-04	53,022
CLARK, WILLIAM R.	MECHANISMS OF DIFFERENTIATION OF T LYMPHOCYTES	MBY	2R01 HD06071-04	59,203
CLINE, MARTIN J.	A NEW METHOD OF BONE MARROW CULTURE	SSS	1R01 AM18058-01	38,860
CLINE, MARTIN J.	NORMAL AND MALIGNANT HEMATOPOIETIC CELL REPLICATION	PTHB	5R01 CA15619-02	61,073
CLINE, MARTIN J.	A PROGRAM IN MEDICAL ONCOLOGY	CAP	2P02 CA15688-02	319,609
CODE, CHARLES F.	MOTOR AND ELECTRICAL ACTIVITY OF THE ALIMENTARY CANAL	GMA	7R01 AM18618-01	72,023
COOPER, EDWIN L.	ONTOGENY AND EVOLUTION OF IMMUNOCOMPETENT CELLS	ALY	1R01 HD09333-01	65,143
CRADDOCK, CHARLES G.	PHYSIOLOGY OF LEUKOCYTES IN DEFENSE AND DISEASE	SSS	2R01 CA11800-06A1	52,580
CRAM, DONALD J.	HOST MOLECULES THAT COMPLEX AND CATALYZE	MCHB	2R01 GM12640-11	62,097
CRANDALL, PAUL H.	STUDY OF THE 'PARTIAL' EPILEPSIES	NSPA	5P01 NS02808-14	258,060
CRANDALL, PAUL H.	A CLINICAL RESEARCH PROGRAM FOR THE 'PARTIAL' EPILEPTICS	NSPB	2P01 NS02808-15	313,391
CRESCITELLI, FREDERICK	COMPARATIVE STUDIES OF THE VERTEBRATE RETINA	VISB	2R01 EY00100-12	35,771
DAVIDSON, MAYER B.	INSULIN ANTAGONISM IN INFECTION, OBESITY, AND UREMIA	MET	5R01 AM14702-05	55,803
DAYTON, SEYMOUR	METABOLISM OF ARTERIAL TISSUE IN ATHEROSCLEROSIS	MET	5R01 HL03734-15	33,943

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
DETELS, ROGER	MS IN AMERICAN & JAPANESE MIGRANTS TO S CAL & SEATTLE	EDC	3R01 NS10186-03S1	34,054
DI STEFANO, JOSEPH J. III	DYNAMICS OF THYROID HORMONE DISTRIBUTION AND METABOLISM	END	1R01 AM18668-01	34,382
DIAMOND, JARED M.	WATER TRANSPORT ACROSS EPITHELIAL MEMBRANES	PHY	2R01 GM14772-08	72,348
DIRKS, DONALD D.	BINAURAL HEARING	EXP	2R01 NS05873-10	35,677
DIXON, ANDREW D.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05304-14	62,391
DIXON, WILFRID J.	MEDICAL DATA PROCESSING RESEARCH	COM	5P07 RR00003-14	1,452,285
DUNN, ROBERT F.	ULTRASTRUCTURAL STUDIES ON VESTIBULAR NEURAL PATHWAYS	CMS	5R01 NS09440-05	12,999
ECKERT, ROGER O.	BIOELECTRIC AND IONIC CONTROL OF CELL FUNCTION	PHY	5R01 NS08364-07	60,724
EDGERTON, V REGGIE	SIGNIFICANCE OF MUSCLE FIBER TYPES	AFY	5R01 NS10423-02	53,131
EDGERTON, V REGGIE	NEUROMUSCULAR JUNCTIONS IN SLOW AND FAST MUSCLES	NEUB	5R01 NS10497-03	33,352
EDGERTON, V REGGIE	CHARACTERIZATION OF NON-NEUROGENIC MUSCULAR ATROPHY	AFY	1R01 NS11950-01A1	76,784
EISENBERG, DAVID S.	STRUCTURE AND ACTION OF MULTISUBUNIT ENZYMES	BBCA	2R01 GM16925-07	150,456
EISENBERG, ROBERT S.	PROPERTIES OF THE SARCOBUTULAR SYSTEM	PHY	3R01 HL13010-05S1	7,648
EISENBERG, ROBERT S.	PROPERTIES OF THE SARCOBUTULAR SYSTEM	PHY	5R01 HL13010-06	45,964
EISENMAN, GEORGE	ION PERMEATION THROUGH CARRIERS, CHANNELS, AND NERVE	PHY	5R01 NS09931-06	50,977
ELLISON, GAYLORD D.	BEHAVIOR: STAGES OF RECOVERY AFTER MONOAMINE LESIONS	EXP	1R01 NS11846-01	30,608
ELUL, RAFAEL	NEUROBLASTOMA MODEL OF BENIGN-MALIGNANT NEOPLASM PHASES	CBY	3R01 CA13538-03S1	41,948
ENGELMANN, FRANZ	PHYSIOLOGY OF FOOD STIMULATED GUT PROTEASES IN INSECTS	TMP	1R01 AI12878-01	54,720
ESTRIN, THELMA	COMPUTER SCIENCE & NEUROPHYSIOLOGY IN STUDY OF THE BRAIN	COM	2R01 NS02501-14	221,173
EVANS, DAVID A.	PROSTAGLANDIN SYNTHESIS	MCHA	3R01 GM21746-01S1	4,297
FAHEY, JOHN L.	IMMUNE FUNCTIONS AND CANCER	CAP	3P01 CA12800-03S1	20,000
FAHEY, JOHN L.	IMMUNE FUNCTIONS AND CANCER	CAP	2P01 CA12800-04	554,378
FAHEY, JOHN L.	BLADDER CANCER: IMMUNOLOGY, IMMUNOTHERAPY & VIROLOGY	SRC	5R26 CA16880-02	464,589
FESSLER, JOHN H.	MOLECULAR DEVELOPMENT OF COLLAGEN FIBERS	MBY	2R01 AM13748-07	82,552
FEWSTER, MONA E.	GLIAL AND MYELIN LIPIDS IN DEVELOPING AND MATURE BRAIN	NEUA	2R01 HD04575-06A1	63,727
FLUHARTY, ARVAN L.	DERMATAN SULFATE CATABOLISM	SSS	1R01 HD08855-01	51,261
FONKALSRUD, ERIC W.	HEPATIC RETICULUM CELLS AS SURGICAL IMMUNE ADJUVANTS	SGYB	5R01 AM16596-02	36,066
FONKALSRUD, ERIC W.	EXPERIMENTAL AND CLINICAL LUNG TRANSPLANTATION STUDIES	SGYB	2R01 HL14333-04	69,392
FOOS, ROBERT Y.	PROLIFERATIVE VITREORETINOPATHY ULTRASTRUCTURE	VISA	3R01 EY00725-03S2	3,618
FOOS, ROBERT Y.	PROLIFERATIVE VITREORETINOPATHY ULTRASTRUCTURE	VISA	2R01 EY00725-04	39,594
FOOTE, CHRISTOPHER S.	PHOTOOXIDATION IN MODEL BIOLOGICAL SYSTEMS	MCHA	5R01 GM20080-03	52,307
FOX, CHARLES F.	CELL SURFACE RECEPTORS	MBY	1R13 CA17514-01	4,318
FOX, CHARLES F.	MEMBRANE STRUCTURE, FUNCTION, AND BIOGENESIS	MBG	3R01 GM18233-04S1	13,420
FOX, CHARLES F.	MEMBRANE STRUCTURE, FUNCTION, AND BIOGENESIS	MBG	5R01 GM18233-05	89,144
FRANK, ROBERT G. JR.	ANATOMY AND PHYSIOLOGY IN 17TH CENTURY ENGLAND	SSS	1R01 LM02435-01	15,936
FROMKIN, VICTORIA A.	QUESTIONS ON THE PRODUCTION AND PERCEPTION OF SPEECH	DBR	1R01 NS12303-01	37,949
FULCO, ARMAND J.	UNSATURATED FATTY ACID BIOSYNTHESIS IN BACILLI	MBG	5R01 AI09829-06	38,793
FURSTMAN, LAWRENCE L.	FACIAL AFFERENTS WITH PARTICULAR REFERENCE TO PAIN	SSS	1R01 DE04249-01	45,976
GAINES, ROSSLYN	PARENT TRAINING EFFECTS ON DEAF CHILD LEARNING/COGNITION	DBR	3R01 HD06903-01S1	8,119
GALBRAITH, GARY C.	ELECTROPHYSIOLOGICAL STUDIES IN MENTAL RETARDATION	EXP	2R01 HD06650-04	43,726
GARCIA, JOHN	BEHAVIORAL AND NEURAL EFFECTS OF TOXICOSIS AND PAIN	EXP	5R01 NS11618-02	57,785
GARCIA, JOHN	BEHAVIORAL AND NEURAL EFFECTS OF TOXICOSIS AND PAIN	EXP	2R01 NS11618-03	74,196
GERSCHENSON, LAZARO E.	EFFECT OF ESTROGENS AND PROGESTOGENS ON CULTURE CELLS	MBY	2R01 CA12136-04	71,680
GILDEN, CARL	REGULATION OF PHOSPHOLIPID SYNTHESIS IN FETAL LUNG	SRC	1R23 HL18335-01	40,260
GILL, AYSHA E.	GENETIC DIVERGENCE OF ISLAND MAMMALIAN POPULATIONS	GEN	1R01 GM22228-01	27,660
GITNICK, GARY L.	PREVENTION OF POST TRANSFUSION CHRONIC LIVER DISEASE	PTHB	1R01 AM17984-01	18,120
GLITZ, DOHN G.	RNA SEQUENCE ANALYSIS AND BASE-SPECIFIC ANTIBODIES	PC	5R01 GM19195-03	33,891
GOLDBERG, LOUIS J.	STUDIES IN ORAL PHARYNGEAL REFLEXES	DEN	9R01 DE04166-07	50,842
GOLUB, SIDNEY H.	LYMPHOCYTE SENSITIZATION TO TUMOR ANTIGENS IN VITRO	ET	1R01 CA17013-01	45,989
GONICK, HARVEY C.	ENVIRONMENTAL TRACE METAL INTOXICATIONS OF THE KIDNEY	SOH	5R01 ES00852-02	54,442
GORBACH, SHERWOOD L.	DIET AND ITS EFFECT ON ENZYMES LINKED TO COLON CANCER	SRC	1R26 CA17511-01	68,026
GORSKI, ROGER A.	SEXUAL DIFFERENTIATION OF THE CONTROL OF FOOD INTAKE	END	1R01 AM18254-01	50,596
GORSKI, ROGER A.	STUDIES ON THE OVARIAN-HYPOTHALAMIC-HYPOPHYSAL AXIS	SSS	3R01 HD01182-12S2	2,147
GORSKI, ROGER A.	STUDIES ON THE OVARIAN-HYPOTHALAMIC-HYPOPHYSAL AXIS	SSS	5R01 HD01182-13	82,316
GREENFIELD, MOSES A.	IN VIVO BONE STUDY: USING ULTRASOUND, PHOTON ABSORPTION	RAD	1R01 GM22338-01	29,688
GRINNELL, ALAN D.	FORMATION AND FUNCTION OF SYNAPSES	NEUB	5R01 NS06232-10	59,903
GROSSMAN, MORTON I.	STUDIES ON GASTRIC PHYSIOLOGY	GMA	5R01 AM08354-11	18,847
GROSSMAN, MORTON I.	PEPTIC ULCER CENTER	SSS	5P17 AM17328-02	1,015,311
GUSSEN, RUTH	HUMAN TEMPORAL BONE PATHOLOGY	CMS	2R01 NS06606-10	118,735
GUTH, PAUL H.	THE VASCULAR FACTOR IN ACUTE GASTRIC MUCOSAL LESIONS	GMA	5R01 AM15436-03	20,213

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
GUZE, LUCIEN B.	PATHOGENESIS OF EXPERIMENTAL PYELONEPHRITIS	BM	2R01 A102257-17	50,153
GUZE, LUCIEN B.	ROLE OF MYCOPLASMAS IN ARTHRITIS	BM	1R01 AM17594-01	24,091
HAGIWARA, SUSUMU	STUDIES IN MICRONEUROPHYSIOLOGY	PHY	5R01 NS09012-06	94,461
HALL, MICHAEL O.	THE BIOSYNTHESIS OF VISUAL PIGMENTORHODOPSINO	VISB	5R01 EY00046-06	66,910
HALPERN, RICHARD M.	ACCESSIBLE METABOLIC PATHWAYS OF NEOPLASTIC CELLS	MET	1R01 CA17332-01	56,427
HAYS, ESTHER F.	STUDY OF COLONY-FORMING CELLS IN BONE MARROW	RAD	5R01 CA13666-03	33,143
HAYWARD, JAMES N.	CENTRAL NEURAL REGULATION OF BODY FLUIDS	NEUA	5R01 NS05638-11	44,630
HELLER, JORAM	BIOCHEMICAL AND BIOPHYSICAL INVESTIGATION OF RHODOPSIN	VISB	5R01 EY00704-05	66,041
HILDEMAN, WILLIAM H.	MECHANISMS OF IMMUNOBLOCKING VERSUS TUMOR IMMUNITY	IMB	5R01 CA15788-02	67,100
HIRSCH, HILDE E.	UPTAKE AND RELEASE OF DRUGS ENTRAPPED IN LIPOSOMES	TOX	1R01 GM22141-01	25,894
HONRUBIA, VICENTE	EXPERIMENTAL STUDIES ON COCHLEAR MECHANISMS	CMS	2R01 NS08193-07	69,522
HOWARD, DEXTER H.	INTERACTION OF ZOOPATHOGENIC FUNGI WITH PHAGOCYTES	BM	5R01 A107461-09	40,102
HOWARD, DEXTER H.	PHYSIOLOGICAL STUDIES ON HISTOPLASMA CAPSULATUM	BM	2R01 A110478-04	55,356
JARMAKANI, MOUAZZA M.	CARDIAC SURGERY, EFFECT ON HEART FUNCTION IN INFANTS	SGYB	3R01 HL16329-02S1	22,477
JARMAKANI, MOUAZZA M.	EFFECT OF CARDIAC SURGERY ON HEART FUNCTION IN INFANTS	SGYB	5R01 HL16329-03	72,718
JUNG, MICHAEL E.	SYNTHESIS OF THE ANTICANCER AGENT, CROTEPOXIDE	MCHA	1R01 CA18164-01	36,622
KATZ, RONALD L.	ACUPUNCTURE THERAPY: CLINICAL RESEARCH STUDIES	SSS	1R01 GM20821-01A1	58,804
KAUFMAN, JOSEPH J.	EXPERIMENTS IN EXTRACORPOREAL RENAL PRESERVATION	SGYA	1R01 AM18213-01	67,877
KIHARA, HAYATO	STUDIES OF HUMAN ARYL SULFATASE A	MET	2R01 NS09479-04	28,936
KIHARA, HAYATO	METACHROMATIC LEUKODYSTROPHY IN CULTURED CELL SYSTEMS	MET	5R01 NS11665-02	87,731
KOLIN, ALEXANDER	DEVELOPMENT OF ELECTROMAGNETIC RHEOANGIOGRAPHY	CVA	1R01 HL17591-01A1	78,383
KORENMAN, STANLEY G.	HORMONAL INTERACTIONS IN THE UTERUS	END	7R01 HD09285-01	48,467
KRASNE, FRANKLIN B.	ESCAPE BEHAVIOR: INTEGRATION AND PLASTICITY	EXP	2R01 NS08108-08	77,240
KRUGER, LAWRENCE	VISUAL PROJECTIONS OF VERTEBRATE MIDBRAIN	VISB	2R01 EY00571-11	67,693
KRUGER, LAWRENCE	COMPARATIVE STUDIES OF SOMATIC AFFERENT PROJECTION	NEUB	5R01 NS05685-11	69,356
KWAN, CATHERINE N.	THE PROCESSING OF RIBONUCLEIC ACID IN EUKARYOTIC CELLS	PC	5R01 CA16913-02	39,129
LADEFOGED, PETER N.	COMPUTERIZED RECOVERY OF ARTICULATIONS	CMS	2R01 NS09780-04A1	65,534
LAGASSE, LEO D.	GROUP STUDY OF GYNECOLOGIC CANCER PATIENTS	CCI	5R10 CA13630-04	59,111
LASCELLES, JUNE	REGULATION OF HEME AND HEMOPROTEIN SYNTHESIS	MBC	5R01 AM11148-09	26,599
LATIES, GEORGE G.	MEMBRANE PERMEABILITY AS A REGULATORY ELEMENT	CBY	5R01 GM19807-03	47,002
LATTA, HARRISON	RENAL PATHOLOGY STUDIED WITH ELECTRON MICROSCOPY	PTHA	5R01 AM06074-17	67,964
LEHRER, ROBERT I.	NON-OXIDATIVE FUNGICIDAL MECHANISMS OF HUMAN LEUKOCYTES	BM	1R01 A112171-01	67,898
LEWIS, HARLAN	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	5S05 RR07009-10	78,655
LIEBESKIND, JOHN C.	BEHAVIORAL AND ELECTROPHYSIOLOGICAL STUDIES OF PAIN	EXP	5R01 NS07628-08	54,281
LINDSLEY, DONALD B.	BRAINSTEM-HIPPOCAMPAL SYSTEMS REGULATING BEHAVIOR	NP	1R01 GM22552-01	33,550
LOLLEY, RICHARD N.	MATURATION OF METABOLISM IN NORMAL AND DYSTROPHIC RETINA	VISA	3R01 EY00395-06S2	12,800
LOLLEY, RICHARD N.	MATURATION OF METABOLISM IN NORMAL AND DYSTROPHIC RETINA	VISA	2R01 EY00395-07A1	39,613
LUNER, STEPHEN J.	ANTIGEN AND SURFACE CHARGE PROPERTIES OF BLOOD CELLS	HEM	5R01 CA13955-03	53,978
LYMAN, JOHN H.	ELECTROCUTANEOUS FEEDBACK FOR ARTIFICIAL LIMBS	AFY	5R01 GM21430-02	53,482
MALONEY, JAMES V, JR.	SURGERY AND NON-OBSTRUCTIVE CORONARY INSUFFICIENCY	SGYA	3R01 HL16292-01S1	83,538
MALONEY, JAMES V, JR.	STUDY OF NONOBSTRUCTIVE CORONARY INSUFFICIENCY	SGYA	5R01 HL16292-02	260,369
MARCUS, ROBERT A.	CYCLIC NUCLEOTIDE REGULATION IN BONE	GMB	1R01 AM17924-01	29,068
MARKHAM, CHARLES H.	CENTRAL VESTIBULAR MECHANISMS	CMS	2R01 NS06658-10	77,725
MARTINEZ, RAFAEL J.	BIOCHEMICAL BASIS OF TISSUE NECROSIS BY C. HISTOLYTICUM	BM	5R01 A111241-03	42,089
MARTINEZ, RAFAEL J.	SERUM AND LYMPH BACTERICIDINS: BIOCHEMICAL MECHANISMS	MBC	1R01 A112835-01	43,014
MAXWELL, MORTON H.	EXPERIMENTAL RENAL ARTERIAL HYPERTENSION	SGYA	5R01 HL09575-10	54,727
MEAD, JAMES F.	HYDROXYLATION OF THE LONG CHAIN FATTY ACIDS OF THE BRAIN	NEUB	5R01 NS10802-02	30,848
MELLINKOFF, SHERMAN M.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00865-02	337,209
MELLINKOFF, SHERMAN M.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05354-14	255,345
MERRIAM, JOHN R.	GENETIC CHANGE IN DEVELOPING CELLS OF DROSOPHILA	GEN	5R01 GM17096-06	51,699
MEYERS, ROBERTA L.	MECHANISM OF CORNEAL INFLAMMATION IN HERPES KERATITIS	SSS	5R01 EY00394-08	61,847
MEYERS, ROBERTA L.	PATHOGENESIS OF EXPERIMENTAL ALLERGIC UVEITIS	IMB	5R01 EY01309-02	32,658
MILLER, JAMES N.	IMMUNE MECHANISMS IN EXPERIMENTAL AND HUMAN SYPHILIS	BM	1R01 A112601-01	101,365
MOMMAERTS, WILFRIED F.	MOLECULAR, CELLULAR, AND PHYSIOLOGICAL INVESTIGATIONS	HEP	3P01 HL11351-08S1	6,477
MOMMAERTS, WILFRIED F.	MOLECULAR, CELLULAR, AND PHYSIOLOGICAL INVESTIGATIONS	HEP	5P01 HL11351-09	760,943
MORIN, JAMES G.	PHYSIOLOGY AND BIOLUMINESCENCE	PHY	5R01 NS09546-05	32,003
MORTON, DONALD L.	MULTIDISCIPLINARY CANCER DIAGNOSIS AND THERAPY	CAP	5P01 CA12582-05	657,110
NAMEROW, NORMAN S.	COMPUTATIONAL INVESTIGATIONS OF PROBLEMS IN NEUROLOGY	COM	5R01 NS111443-02	34,409
NAYAK, DEBI P.	INTERFERENCE BY DEFECTIVE INFLUENZA VIRUSES	VR	1R01 A112749-01	39,325
NAYAK, DEBI P.	ENDOGENOUS GUINEA PIG ONCORNAVIRUSES AND CANCER	VR	1R01 CA15797-01	55,321



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
NIERLICH, DONALD P.	THE REGULATION OF RNA SYNTHESIS IN ESCHERICHIA COLI	MBC	5R01 GM15381-08	58,542
NODA, HIROHARU	NEURONAL BASIS OF VISUAL PERCEPTION IN EYE MOVEMENTS	VISB	5R01 EY01051-02	39,368
NOVIN, DONALD	STUDIES OF HUNGER, THIRST, AND WATER METABOLISM	EXP	2R01 NS07687-08	59,557
NYC, JOSEPH F.	LIPID ABERRATIONS IN MUTANT STRAINS OF NEUROSPORA	MBC	5R01 GM10935-13	21,560
O'NEILL, YNEZ V.	DEVELOPMENT OF ANATOMICAL SCIENCES/GALEN TO VESALIUS	HLS	5R01 LM01941-03	23,862
PARMELEE, ARTHUR H.	EXPERT VIEWS ON CHILD REARING, 1900 - 1950	SSS	1R01 LM02429-01	15,974
PEARSON, CARL M.	CLINICAL PHARMACOLOGY RHEUMATIC AND MUSCULAR DISEASES	PTR	3P11 GM15759-08S1	181,056
PEASE, DANIEL C.	FINE STRUCTURAL ASPECTS OF KIDNEY, LUNG AND INTESTINE	CBY	5R01 HL01770-24	24,732
PETER, JAMES B.	METABOLISM IN MYOTONIC DYSTROPHY AND OTHER MYOPATHIES	NEUA	5R01 NS07587-08	70,059
PETER, JAMES B.	STUDIES OF CLINICALLY EARLY CHILDHOOD DYSTROPHY	MET	5R01 NS10403-09	58,088
PHELPS, DALE L.	ALPHA-TOCOPHEROL IN RETINAL OXYGEN TOXICITY	VISA	1R01 EY01507-01	42,963
PICKETT, M JOHN	THE IMMUNE RESPONSE IN EXPERIMENTAL CHOLERA	BM	1R22 AI12787-01	26,720
PIERCE, JOHN G.	PURIFICATION AND CHEMISTRY OF PROTEIN HORMONES	END	9R01 AM18005-22	105,147
POPIAK, GEORGE J.	MOLECULAR ASPECTS OF MENTAL RETARDATION	HDWR	5P01 HD06576-02	328,997
POPIAK, GEORGE J.	ENZYMES AND INHIBITORS OF CHOLESTEROL BIOSYNTHESIS	PC	5R01 HL12745-07	54,824
POPIAK, GEORGE J.	CONTROL OF CHOLESTEROL METABOLISM IN MAN	MET	1R01 HL18016-01	54,257
PORTER, DAVID D.	IMMUNOLOGICAL AND VIRAL STUDIES OF SLOW VIRUS INFECTIONS	VR	5R01 AI09476-07	57,963
PUHVEL, S MADLI	ACNE: STUDIES ON ISOLATED SEBACEOUS FOLLICLES	GMA	5R01 AM17725-02	75,700
RAND, ROBERT W.	FERROMAGNETIC SILICONE VASCULAR OCCLUSION IN NEOPLASMS	SGYA	2R01 CA14303-03	59,696
RAY, DAN S.	REGULATION OF M13 VIRAL DNA REPLICATION	VR	5R01 AI10752-04	51,131
REBEK, JULIUS	A NEW TEST FOR REACTIVE INTERMEDIATES	MCHA	1R01 GM22044-01	48,227
REEDER, LEO G.	CHANGE OF ATTITUDES TOWARD POPULATION POLICY ISSUES	POP	5R01 HD06281-04	39,185
ROBERTS, SIDNEY	REGULATION OF CEREBRAL PROTEIN SYNTHESIS	NEUA	5R01 NS07869-10	83,120
ROLETT, ELLIS L.	ADRENERGIC MECHANISMS IN CARDIAC MUSCLE	CVA	5R01 HL17684-02	37,430
ROMIG, WILLIAM R.	GENETIC STUDIES ON VIBRIO CHOLERAE	BM	5R22 AI08024-08	36,113
ROSE, GUENTER H.	BEHAVIORAL PLASTICITY	EXP	1R01 HD08895-01A1	27,524
ROSS, GORDON	EFFECTS OF IONS ON VASCULAR REACTIVITY	PHRA	1R01 HL18199-01	34,731
SALSER, WINSTON A.	DETERMINING SEQUENCES FROM HEMOGLOBIN MESSENGER RNA	PC	5R01 CA15940-02	64,108
SALSER, WINSTON A.	NUCLEOTIDE SEQUENCING METHODS FOR ONCOGENIC VIRUSES	GEN	2R01 GM18586-04	57,365
SAMBHI, MOHINDER P.	RENIN-ANGIOTENSIN METABOLISM IN HYPERTENSION	QMB	5R01 HL15039-03	41,023
SAWYER, CHARLES H.	RHINENCEPHALON, NEUROENDOCRINE FUNCTION, AND BEHAVIOR	NEUA	5R01 NS01162-19	72,314
SCHACHER, JOHN F.	BASIC STUDIES IN LYMPHATIC FILARIASIS	TMP	2R22 AI07770-08	46,970
SCHAIN, RICHARD J.	FACTORS AFFECTING POSTNATAL BRAIN DEVELOPMENT	HED	2R01 NS07691-07A1	49,088
SCHIBEL, ARNOLD B.	STRUCTUROFUNCTIONAL STUDIES OF NEUROFIL MODULES	NEUA	5R01 NS10567-03	55,935
SCHLAG, JOHN D.	CONDITIONING OF PYRAMIDAL ACTIVITY BY SENSORY INFLOW	NEUA	5R01 NS04955-12	25,811
SCHULTZE, RAYMOND G.	STUDY OF NEURAL CONTROL OF RENAL FUNCTION	SGYA	5R01 HL16148-02	24,526
SCHUMAKER, VERNE N.	MACROMOLECULES OF CIRCULATORY AND GENETIC IMPORTANCE	BBCA	5R01 GM13914-10	61,348
SCHUMAKER, VERNE N.	CHARACTERIZATION OF VERY LOW-DENSITY LIPOPROTEINS	BBCB	5R01 HL16889-02	28,718
SCHWARZ, KLAUS	NEW ESSENTIAL TRACE ELEMENTS	NTN	5R01 AM08669-13	93,079
SCHWARZ, KLAUS	CHEMICAL IDENTITY AND NUTRITIONAL EFFECTS OF FACTOR G	NTN	2R01 AM11291-08	34,486
SCHWARZ, KLAUS	ATHEROSCLEROSIS AND SILICON	NTN	1R01 HL17701-01	72,097
SEGUNDO, JOSE P.	FUNCTIONAL SIGNIFICANCE OF SPIKE DISCHARGE PARAMETERS	NEUB	5R01 NS05264-11	87,984
SELLERS, MARGRET I.	GENETIC AND RELATED INTERACTIONS IN MYCOBACTERIA	BM	5R22 AI08252-06	34,414
SERCARZ, ELI E.	CLONAL ANALYSIS OF FINE SPECIFICITY OF T AND B CELLS	ALY	2R01 AI08198-07	54,322
SERCARZ, ELI E.	ANTIGEN-BINDING CELLS OF MULTIPLE SPECIFICITY	ALY	5R01 AI11183-03	63,652
SIGMAN, DAVID S.	METAL ION CATALYSIS IN ENZYMIC REACTIONS	BIO	9R01 GM21199-07	55,873
SIMMONS, DANIEL H.	SITE OF AIRWAY OBSTRUCTION AND CONTROL OF VENTILATION	CVA	5R01 HL15605-02	45,922
SIMMONS, NORMAN S.	STRUCTURE-FUNCTION RELATIONSHIPS OF CALCIFYING SYSTEMS	DEN	5R01 DE03479-03	40,049
SIMPSON, LARRY	THE FUNCTION OF THE KINETOPLAST IN THE HEMOFAGELLATES	TMP	5R01 AI09102-07	41,810
SLATER, GRANT G.	ANTITRYPSIN IN LUNG DISEASE FROM AIR POLLUTION	EDC	1R01 HL18006-01	43,574
SLOAN, SHERWIN H.	CYCLIC NUCLEOTIDE METABOLISM IN THE HUMAN RETINA	VISA	1R23 EY01447-01	10,065
SMITH, EMIL L.	STRUCTURE AND PROPERTIES OF PROTEINS AND ENZYMES	PC	2R01 GM11061-13	316,489
SMITH, ROBERTS A.	GROUP TRANSFER PROCESSES IN NORMAL AND MALIGNANT CELLS	MBY	2R01 CA13196-04	70,667
SPARKS, FRANK C.	COOPERATIVE STUDY OF ONCOLOGY	CCI	5R10 CA12285-05	44,933
STECKEL, RICHARD J.	CORE CANCER CENTER SUPPORT GRANT	CAP	1P01 CA16042-01	522,432
STECKEL, RICHARD J.	BOWEL RADIO-PROTECTION VIA VASOCONSTRICTOR INFUSIONS	RAD	1R01 CA16199-01A1	43,585
STELL, WILLIAM K.	PATHWAYS FOR COLOR VISION IN RETINAS	NEUB	5R01 EY01190-03	37,556
STERMAN, MAURICE B.	EFFECTS OF SENSORIMOTOR EEG CONDITIONING ON EPILEPSY	NEUA	5R01 NS10726-03	30,569
STEVENS, JACK G.	LATENCY IN HERPES VIRUS INFECTION OF CELLS AND TISSUES	VR	2R01 AI06246-11	89,338
STRAATMAN, BRADLEY R.	STUDY OF RETINAL MORPHOLOGY	VSN	5P01 EY00331-09	184,123

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
SULLIVAN, STUART F.....	VENTILATORY ADJUSTMENTS FOR OPTIMAL OXYGENATION.....	SGYA	1R01 HL17358-01	32,825
SZABO, GABOR.....	PERMEABILITY TRANSIENTS OF CARRIERS, CHANNELS AND HEART.....	PHY	1R01 HL16839-01A1	55,811
TARJAN, GEORGE.....	MENTAL RETARDATION RESEARCH CENTER.....	HDNR	5P01 HD04612-07	721,981
TAYLOR, ANNA N.....	NEURAL MECHANISMS FOR PITUITARY-ADRENAL PERIODICITY.....	END	5R01 NS09122-05	33,844
TAYLOR, DERMOT B.....	MOLECULAR EVENTS AT THE CHOLINERGIC RECEPTOR.....	NEUA	1R01 NS11708-01A1	50,426
TERASAKI, PAUL I.....	STUDY OF SIGNIFICANCE OF HLA ANTIGENS IN DISEASE.....	IMB	5R01 AM02375-17	55,751
THOMAS, JAMES P.....	SPATIAL INTEGRATION IN HUMAN VISION.....	VISB	5R01 EY00360-09	38,087
URIST, MARSHALL R.....	INDUCTIVE SUBSTRATES FOR TOOTH AND BONE FORMATION.....	SSS	5R01 DE02103-11	195,921
VALENTINE, WILLIAM N.....	ENZYMATIC AND BIOCHEMICAL STUDIES ON BLOOD CELLS.....	HEM	5R01 HL12944-06	128,279
VAN HERLE, ANDRE J.....	CIRCULATING THYROGLOBULIN IN THYROID CARCINOMA.....	END	2R01 CA13447-03	30,484
VAN LANCCKER, JULIEN L.....	ROLE OF REPAIR ENZYMES IN PATHOGENESIS OF LIVER CANCER.....	SSS	5R01 CA14840-02	55,425
VERITY, M ANTHONY.....	A MORPHOBIOCHEMICAL STUDY OF MERCURY ENCEPHALOPATHY.....	TOX	2R01 ES00625-04A1	32,139
VOGE, MARIETTA.....	IN VITRO DEVELOPMENT OF LARVAL STAGES OF SCHISTOSOMES.....	TMP	5R22 AI11107-03	31,191
WAISMAN, JERRY J.....	EPITHELIAL ATYPIA AND CANCER OF THE URINARY BLADDER.....	SRC	5R26 CA14648-02	15,951
WALFORD, ROY L.....	TRANSPLANTATION IMMUNOGENETICS AND CANCER.....	IMB	5R01 AI10088-05	67,132
WALFORD, ROY L.....	IMMUNOGENETIC MECHANISMS AND CANCER IN CONGENIC MICE.....	IMB	5R01 CA12788-04	58,008
WALL, RANDOLPH.....	MESSANGER RNA BIOGENESIS IN VIRUS TRANSFORMED CELLS.....	BIO	5R01 CA14868-03	38,256
WALSH, JOHN H.....	HORMONAL ETIOLOGY OF GASTRIC HYPERSECRETION.....	GMA	5R01 AM17294-02	53,405
WALTER, DONALD O.....	REDUCTION OF ARTIFACTS FOR CHILDREN'S EEG'S.....	NEUA	5R01 HD07524-03	23,598
WARD, JOHN F.....	CELLULAR REPAIR OF POTENTIALLY MUTAGENIC DAMAGE.....	RAD	2R01 CA13437-03	54,288
WARD, PAUL H.....	EXPERIMENTAL STUDY OF VESTIBULAR MECHANISMS.....	CMS	5R01 NS08335-08	65,360
WARD, PAUL H.....	STUDY OF COMMUNICATIVE DISORDERS.....	CDR	5P01 NS09823-05	512,245
WEBBER, MILO M.....	RADIOTRACERS IN THE DIAGNOSIS AND TREATMENT OF CANCER.....	RAD	1R01 CA15787-01	74,194
WEBBER, MILO M.....	RADIOISCTINTOGRAPHY DEMONSTRATION OF THROMBOPHLEBITIS.....	RAD	3R01 GM17113-04S1	3,843
WEINSTOCK, ALFRED.....	THE ELABORATION OF GLYCOPROTEINS IN MINERALIZING TISSUES.....	DEN	5R01 DE03386-05	74,627
WEST, CHARLES A.....	BIOSYNTHESIS OF ISOPRENOID HORMONES.....	PC	5R01 GM07065-15	62,536
WEST, LOUIS J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05756-02	201,862
WHITE, STUART C.....	STUDY OF IMMUNOPATHOLOGIC MECHANISMS OF EAS.....	IMB	5R23 DE03859-02	10,065
WINTERS, WENDELL D.....	ANALYSIS OF IMMUNE RESPONSE IN LYMPHOSARCOMAS.....	IMB	1R01 CA17815-01	37,559
WISNIEKI, BERNADINE J.....	PHYSICAL STRUCTURE OF ANIMAL CELL MEMBRANES.....	BBCB	1R01 GM22240-01	77,931
WOLFGAM, FREDERICK J.....	FUNDAMENTAL STUDIES RELATING TO MULTIPLE SCLEROSIS.....	NSPB	5P01 NS08711-05	503,235
YOUNG, LOWELL S.....	STUDY OF HOST-MICROBIAL FACTORS IN BACILLEMIA.....	BM	2R01 AI11271-03	28,952
YOUNG, RICHARD W.....	HISTOPHYSICAL AND HISTOCHEMICAL STUDIES ON THE EYE.....	VISA	2R01 EY00095-14	89,826
YUWILER, ARTHUR.....	DEVELOPMENTAL EFFECTS OF NEONATAL CORTISOL TREATMENT.....	END	1R01 HD08575-01	30,619
ZABIN, IRVING.....	STUDIES OF AN INDUCIBLE BACTERIAL ENZYME.....	MBC	5R01 AI04181-14	93,160
ZAMENHOF, STEPHEN.....	CHRONIC UNDERNUTRITION AND BRAIN DEVELOPMENT.....	NEUB	1R01 HD08927-01	51,054
ORGANIZATION TOTAL	265 23,625,882			
<b>UNIVERSITY OF SOUTHERN CALIFORNIA ZIP CODE 90007</b>				
ABBOTT, BERNARD C.....	COMPARATIVE CARDIOVASCULAR PHYSIOLOGY.....	PHY	5R01 HL12556-07	32,313
ALADJEM, FREDERICK.....	LIPOPROTEIN CHEMISTRY.....	MET	3R01 HL12137-06S1	11,811
APPLEMAN, M MICHAEL.....	CYCLIC NUCLEOTIDE PHOSPHODIESTERASE.....	PC	5R01 AM16367-02	33,583
BAKER, ROBERT F.....	REGULATION OF GENE EXPRESSION IN DEVELOPMENT.....	GEN	3R01 HD04015-06S1	3,021
BAKER, ROBERT F.....	REGULATION OF GENE EXPRESSION IN DEVELOPMENT.....	GEN	2R01 HD04015-07	54,615
BATEMAN, JOSEPH R, III.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	5R10 CA05186-15	460,584
BAU, ROBERT.....	STRUCTURAL STUDIES ON PLATINUM-NUCLEOTIDE COMPLEXES.....	BBCA	1R01 CA17367-01	30,288
BAUER, FRANZ K.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00043-15	639,126
BAUER, FRANZ K.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05356-14	241,496
BAUMGARTNER, WERNER A.....	ANTIOXIDANTS IN SENESCING AND IN NEOPLASTIC CELLS.....	NTN	5R01 CA14221-03	32,772
BEIERLE, JOHN W.....	WILM'S TUMOR ANTIGENS.....	ALY	1R01 CA17687-01	29,800
BEKHOR, ISAAC.....	CHROMATIN-GLUCOCORTICOID INFLUENCES IN CLEFT PALATE.....	HED	1R01 DE04031-01	40,300
BEKHOR, ISAAC.....	DNA-CHROMOSOMAL PROTEIN IN CRANIOFACIAL DEVELOPMENT.....	MBY	1R01 DE04255-01	50,255
BERGMAN, RICHARD N.....	QUANTITATIVE DYNAMIC STUDY OF METABOLISM OF GLUCOSE.....	MET	5R01 AM17236-02	43,764
BESSMAN, SAMUEL P.....	SEX STEROIDS AND FETAL HEART GLYCOLYSIS.....	HED	1R01 HD09052-01	33,573
BIDLACK, WAYNE R.....	HYDROPEROXIDE PEROXIDASE IN BIOLOGICAL OXIDATIONS.....	BIO	1R01 GM22181-01	35,820
BISHOP, LEWIS G.....	NEUROPHYSIOLOGY OF AN OPTOMOTOR RESPONSE.....	VISB	1R01 EY01513-01	58,405
BLANKENHORN, DAVID H.....	SUPPORT FOR CENTER FOR RESEARCH ON ATHEROSCLEROSIS.....	SRC	5P17 HL14138-05	816,058
BRODIE, ARNOLD F.....	MECHANISMS OF OXIDATIVE ENERGY GENERATION IN BACTERIA.....	BIO	5R01 AI05637-13	83,171
CADY, LEE D.....	CARDIOVASCULAR FITNESS AND OTHER RISK FACTORS.....	EDC	1R01 HL18235-01	38,311
CRAWFORD, WILLIAM H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05303-14	86,553



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
DAVIS, RICHARD L.....	ULTRASTRUCTURAL STUDIES OF C-VIRUS MURINE MYELOPATHY.....	PTHA	5R01 AI11656-02	29,429
DUBOIS, EDMUND L.....	CORRELATIVE PROSPECTIVE STUDY OF LUPUS NEPHROPATHY.....	PTHA	5R01 AM15755-04	56,724
DUNN, ARNOLD S.....	HORMONAL REGULATION OF HEPATIC GLUCOSE PRODUCTION.....	END	5R01 AM07215-11	37,382
FIFE, THOMAS H.....	ENZYMATIC AND NONENZYMATIC HYDROLYSIS OF ACETALS.....	BIO	3R01 GM10613-12S1	8,153
FIFE, THOMAS H.....	ENZYMATIC AND NONENZYMATIC REACTIONS OF ACYL PHOSPHATES.....	BIO	2R01 GM16564-07	32,350
FINCH, CALEB E.....	AGING AND BIOSYNTHESIS IN NONDIVIDING CELLS.....	CBY	5R01 HD07338-02	23,699
FRIDU, GEORGE J.....	K CELL CYTOTOXIC MECHANISMS IN RHEUMATIC DISEASES.....	IMB	1R01 AM18445-01	65,978
FU, JOAN C.....	EVALUATION OF SUSTAINED RELEASE ANTINEOPLASTIC CAPSULES.....	SSS	1R01 CA17415-01	45,688
GOEBELSMANN, UWE T.....	TRANSPORT, MEASUREMENT, & CLINICAL USE OF PLASMA ESTRIOL.....	END	5R01 HD05932-03	25,260
GOODMAN, MYRON F.....	CARDIOTOXICITY IN CANCER TREATMENT: A MOLECULAR STUDY.....	PHRA	1R01 CA17358-01	63,850
GOODMAN, MYRON F.....	ERROR CORRECTION IN REPLICATING T4 BACTERIOPHAGE.....	GEN	3R01 GM21422-01S1	6,342
GRODINS, FRED S.....	CONTROL OF CARDIOPULMONARY COUPLING IN EXERCISE.....	AFY	5R01 HL16390-02	42,599
HAMMOND, G DENMAN.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	CCI	2R10 CA13539-03	294,609
HAMMOND, G DENMAN.....	PILOT MULTIDISCIPLINARY CANCER RESEARCH PROGRAM.....	CAP	5P01 CA14089-02	2,346,554
HARDING, BOYD W.....	STEROID HYDROXYLASES IN ADRENAL TISSUE.....	END	5R01 CA07057-12	45,953
HAVERBACK, BERNARD J.....	PROTEOLYTIC ENZYMES, BINDING PROTEINS, AND PANCREATITIS.....	MET	5R01 AM04683-15	38,078
HAYS, DANIEL M.....	IN VITRO STUDIES OF LIVER REGENERATION.....	SGYA	5R01 AM08879-10	43,461
HAYWOOD, L JULIAN.....	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE.....	SRC	5P18 HL15162-04	305,188
HENDERSON, BRIAN E.....	USC CANCER CENTER EPIDEMIOLOGY AND BIOSTATISTICS UNIT.....	CAP	1P01 CA17054-01	711,817
HENDERSON, BRIAN E.....	SYMPOSIUM ON CANCER EPIDEMIOLOGY IN THE PACIFIC BASIN.....	NSS	1R13 CA18566-01	34,371
HENRY, JAMES P.....	PSYCHOSOCIAL HYPERTENSION CATECHOLAMINES AND DRUGS.....	PPR	5R01 HL16790-02	93,447
HOCHSTEIN, PAUL E.....	ULTRASTRUCTURE - BIOCHEMICAL STUDIES OF AGING RED CELLS.....	MBY	1R01 HD08159-01A1	40,693
HORTON, RICHARD.....	METABOLISM AND CONTROL OF TESTOSTERONE (ADROGENS) IN MAN.....	END	5R01 AM13710-06	27,975
HORTON, RICHARD.....	PLASMA ALDOSTERONE IN NORMAL AND HYPERTENSIVE MAN.....	CVB	5R01 HL13746-05	39,825
JONES, MARY E.....	CARBAMYL ENZYMES AND DIFFERENTIATION.....	PC	2R01 HD06538-04	79,229
KAPRIELIAN, ZOHRA B A.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5305 RR07012-09	44,982
LAI, MICHAEL M.....	STRUCTURE AND ORGANIZATION OF RNA TUMOR VIRUSES.....	VR	1R01 CA16113-01A1	50,325
LIEB, MARGARET.....	GENE INTERACTION IN BACTERIA AND PHAGE.....	GEN	2R01 AI05367-13	61,535
MARSH, DONALD J.....	ACTIONS OF ANTIURETIC HORMONE OF THE RENAL MEDULLA.....	GMB	5R01 AM15968-04	37,524
MARSH, DONALD J.....	MECHANISM OF OSCILLATORY GLUCOSE AND INSULIN DYNAMICS.....	MET	1R01 AM18467-01	56,427
MARSH, DONALD J.....	TUBULAR-VASCULAR INTERACTIONS IN KIDNEY.....	GMB	5R01 HL15031-03	23,387
MASSRY, SHAUL G.....	CATECHOLAMINES, ADH, AND WATER METABOLISM.....	GMB	7R01 AM18345-01	36,665
MASSRY, SHAUL G.....	CATECHOLAMINES, ADH, AND WATER METABOLISM.....	GMB	5R01 AM18345-02	58,336
MASSRY, SHAUL G.....	RENAL FUNCTION AFTER BILE DUCT OBSTRUCTION.....	GMA	7R01 AM18346-01	16,724
MATIOLI, GASTONE.....	STUDY ON VIRUS INDUCED LEUKEMIC STEM CELLS IN MICE.....	PTB8	3R01 CA14730-01S1	2,500
MEISELWAN, HERBERT J.....	HEMORRHOLOGY STUDIES RELATED TO IN VIVO BLOOD FLOW.....	CVB	5R01 HL15722-03	16,916
MILLS, BARBARA G.....	ROLE OF LOCAL FACTORS ON BONE IN PERIODONTAL DISEASE.....	DEN	5R01 DE03929-02	33,790
MOORE, GEORGE P.....	COMPUTER ANALYSIS OF MUSCLE RECEPTOR SPIKE TRAINS.....	NEUA	1R01 NS11298-01A2	47,756
MOOSER, GREGORY.....	MECHANISM OF TASTE-RECEPTOR FUNCTION.....	CMS	5R01 DE03739-03	23,075
MOSLEY, JAMES W.....	EVALUATION OF GLUCOCORTICOID FOR FULMINANT HEPATITIS.....	EDC	1R01 AM17953-01	58,720
NICOLAIDES, NICHOLAS.....	ANALYSIS OF LIPIDS OF HUMAN SKIN.....	PC	3R01 AM10010-10S1	36,118
NICOLEFF, JOHN T.....	HUMAN THYROID HORMONE METABOLISM.....	END	5R01 HL17227-08	40,331
NIMNI, MARCEL E.....	COLLAGEN IN OSTEOARTHRITIC CARTILAGE.....	GMA	5R01 AM16404-02	50,822
OLDHAM, SUSAN B.....	PARATHYROID REGULATION AND VITAMIN D ACTIVATION.....	EMB	5R01 AM16081-02	32,130
PARKER, JOHN W.....	PERIODATE INDUCED LYMPHOCYTE TRANSFORMATION.....	ALY	5R01 CA14673-02	49,324
QUILLIGAN, EDWARD J.....	MECHANISMS OF FETAL CEREBRAL VASCULAR CONTROL.....	HED	5R01 HD07377-02	53,733
RUSSELL, FINDLEY E.....	PEPTIDES AND NONENZYMATIC PROTEINS OF VENOMS.....	TOX	1R01 NS11476-01A1	36,307
SCHAE, K WARNER.....	COGNITIVE BEHAVIOR IN MATURITY AND OLD AGE.....	EXP	5R01 HD08458-02	72,296
SCHIFFMAN, SANDRA.....	MECHANISM OF CONTACT ACTIVATION OF INTRINSIC CLOTTING.....	HEM	1R01 HL17402-01	25,608
SCHNEIDER, FRED W.....	STABILITY OF STEADY STATES IN NUCLEIC ACID SYNTHESIS.....	BBCA	5R01 GM21421-02	36,100
SCHNEIR, MICHAEL L.....	THE MOLECULAR NATURE OF GINGIVAL AND MUCOSAL COLLAGEN.....	GMA	2R01 DE03318-04	78,049
SCHNEPP, OTTO O.....	CIRCULAR DICHROISM STUDIES IN THE VACUUM ULTRAVIOLET.....	BBCA	2R01 GM14471-07	52,372
SCHWEITZER, IRVIN L.....	HEPATITIS, HAA, AND ANTI-HAA IN MOTHERS AND INFANTS.....	GMA	2R01 AI10894-04	30,324
SHERWIN, RUSSELL P.....	COVERT CELLULAR AND SUBCELLULAR DAMAGE OF LUNG.....	PTHA	1R01 HL17412-01	84,026
SLAVIN, BERNARD G.....	DISTRIBUTION OF ADRENERGIC NERVES IN ADIPOSE TISSUE.....	NEUA	1R01 HL18283-01	37,365
SLAVKIN, HAROLD C.....	DERMAL-EPIDERMAL DIFFUSION IN GINGIVAL SULCUS TISSUES.....	DEN	2R01 DE03513-04	81,313
SLAVKIN, HAROLD C.....	INTERCELLULAR COMMUNICATION DURING TOOTH FORMATION.....	DEN	2R01 DE03569-03A1	61,925
SLAVKIN, HAROLD C.....	EXTRACELLULAR MATRIX INFLUENCES ON GENE EXPRESSION.....	NSS	1R13 DE04020-01	41,330
SORGENTE, NINO.....	ROLE OF VASCULARIZATION DURING CRANIOFACIAL DEVELOPMENT.....	HED	1R01 DE04074-01	46,200
STELLWAGEN, ROBERT H.....	MECHANISM OF ENZYME INDUCTION BY CYCLIC NUCLEOTIDES.....	BIO	5R01 CA12563-05	51,033

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
STEPHENS, PHILIP J.....	INFRA RED NATURAL AND MAGNETIC CIRCULAR DICHROISM.....	BBCA	3R01 GM16263-06S1	10,669
THOMPSON, LARRY W.....	INFORMATION PROCESSING AND AGING.....	EXP	1R01 AG00088-01	42,339
TURNER, A FRANKLIN.....	QUANTITATIVE DIAGNOSIS OF EARLY PULMONARY EDEMA.....	RAD	1R01 HL18132-01	69,214
VISSER, DONALD W.....	NUCLEOSIDE AND NUCLEOTIDE DERIVATIVES.....	ET	5R01 CA02973-20	54,952
VOGT, PETER K.....	INTERACTIONS BETWEEN AVIAN TUMOR VIRUSES AND THEIR HOSTS.....	VR	5R01 CA13213-04	109,892
WUST, CARL J.....	MYELOGENOUS LEUKEMIA-ASSOCIATED ANTIGENS.....	ALY	1R01 CA17533-01	66,784
YAMASHIRO, STANLEY M.....	MEASUREMENT OF UNEVEN LUNG VENTILATION.....	CVA	5R01 HL16034-02	32,740
YAMASHIRO, STANLEY M.....	AUTOMATION OF DYNAMIC LUNG RESISTANCE MEASUREMENT.....	CVA	5R01 HL16586-02	22,219
YATES, FRANCIS E.....	ANALYSIS OF GLUCOCORTICOID SYSTEM FUNCTIONS.....	END	5R01 AM17679-02	74,885
ZAWACKI, BRUCE E.....	CORTICOSTEROIDS AND SMOKE-INHALATION PATHOLOGY.....	PTHA	5R01 HL15642-02	34,507
ORGANIZATION TOTAL	91	9,477,842		
<b>WHITE MEMORIAL MEDICAL CENTER ZIP CODE 90033</b>				
DE QUATTRO, VINCENT L.....	ROLE OF CATECHOLAMINES IN HYPERTENSION.....	PHRA	3R01 HL13607-04S1	2,028
ORGANIZATION TOTAL	1	2,028		
<b>MENLO PARK</b>				
<b>LINUS PAULING INSTITUTE OF SCIENCE AND MEDICINE ZIP CODE 94025</b>				
PAULING, LINUS C.....	ORTHOMOLECULAR DIAGNOSIS OF CANCER.....	PTHB	1R01 CA16398-01	109,449
PAULING, LINUS C.....	MEDICAL DIAGNOSIS BY MASS SPECTROMETRY.....	SSS	5R01 GM21197-02	97,394
ORGANIZATION TOTAL	2	206,843		
<b>STANFORD RESEARCH INSTITUTE ZIP CODE 94025</b>				
ACTON, EDWARD M.....	SYNTHESIS OF SEPTACIDIN ANALOGS AS ANTITUMOR DRUGS.....	MCHA	5R01 CA15029-02	44,769
ANBAR, MICHAEL.....	FIELD ION MASS SPECTROMETRY APPLIED TO CANCER THERAPY.....	RAD	2R01 CA13312-03	206,703
ANBAR, MICHAEL.....	PREVENTION OF CARIES AND PLAQUE BY POLYPHOSPHONATES.....	DEN	1R01 EO3997-01A1	65,984
ANBAR, MICHAEL.....	ADVANCED MASS SPECTROMETRIC MULTICOMPONENT ANALYZER.....	SSS	1R01 GM21835-01	108,441
BARON, WILLIAM S.....	PHOTORECEPTOR INFORMATION PROCESSING IN PRIMATES.....	SSS	1R01 EY01579-01	92,480
CONNELL, CAROLYN J.....	THE EFFECT OF HCG ON SERTOLI CELLS.....	REB	1R01 HD08647-01A1	9,573
CORY, MICHAEL J.....	SYNTHESIS OF COMPLEMENT INHIBITORS.....	MCHA	5R01 AI11231-02	38,330
CRANE, HEWITT D.....	EXPERIMENTAL STUDY OF VISUAL ACCOMMODATION.....	VISB	5R01 EY01031-02	92,508
DE GRAW, JOSEPH I.....	8-DEAZAFOLATES AS FOLIC ACID ANTAGONISTS.....	MCHA	1R01 CA16533-01	44,913
DENSON, DONALD D.....	PREPARATION OF FLUORINATED VOLATILE ANESTHETICS.....	MCHB	5R01 GM20082-02	42,649
EVANS, MICHAEL J.....	EFFECT OF AGING ON TISSUE INJURY AND REPAIR.....	CVB	5R01 HL16330-03	50,948
FIELDSTEEL, A HOWARD.....	STUDIES ON DEFECTIVE FRIEND VIRUS AND ITS PSEUDOTYPES.....	VR	3R01 CA07868-09S1	5,706
FREEMAN, GUSTAVE.....	STUDY OF CHRONIC OBSTRUCTIVE LUNG DISEASE.....	SSS	5P01 ES00842-03	270,957
GLICK, DAVID.....	QUANTITATIVE HISTOCHEMISTRY OF GASTRIC ACID SECRETION.....	MBY	5R01 AM17772-02	106,680
GLICK, DAVID.....	HYALURONIDASE AND CANCER.....	PTHB	1R01 CA17825-01	74,881
GREEN, PHILIP S.....	ULTRASONIC CAMERA FOR SOFT TISSUE IMAGING.....	RAD	3R01 GM18780-03S2	32,942
GREEN, PHILIP S.....	ULTRASONIC CAMERA FOR SOFT-TISSUE IMAGING.....	RAD	2R01 GM18780-04	128,179
HENRY, DAVID W.....	SYNTHETIC ANTITUMOR ANALOGS-ALPHA-DEOXYTHIOGUANOSINE.....	MCHA	1R01 CA16487-01	53,480
INSEL, PAUL M.....	BLOOD PRESSURE EDUCATION IN AN INDUSTRIAL SETTING.....	HBP	1R25 HL18424-01	111,242
JOHNSON, HOWARD L.....	CHEMICAL INHIBITORS OF HISTIDINE DECARBOXYLASE.....	PHRA	5R01 AM14763-03	52,885
KAPLAN, JOEL N.....	MATERNAL BEHAVIOR AND INFANT DEVELOPMENT.....	EXP	2R01 HD04905-04A1	73,074
KELLY, DONALD H.....	PROCESSING OF ELEMENTARY VISUAL STIMULI.....	SSS	2R01 EY01128-02	95,601
KUHLMANN, KARL F.....	19F NMR STUDY OF BINDING OF DRUGS TO DNA.....	BBCB	1R01 CA14251-01A1	54,616
KUHLMANN, KARL F.....	NOVEL ACTINOMYCIN ANALOGS: SYNTHESIS AND DNA-BINDING.....	MCHA	1R01 CA16486-01A1	57,818
MARICH, KENNETH W.....	BIOEFFECTS OF LOW INTENSITY ULTRASONIC IRRADIATION.....	RAD	1P01 GM22584-01	266,645
MILL, THEODORE.....	THE ROLE OF FREE RADICALS AND ANTIOXIDANTS IN AGING.....	BIO	1R01 HD08841-01	30,000
PEPPERS, NORMAN A.....	RESEARCH ON NONINVASIVE OXIMETRY THROUGH THE EYE.....	VISA	1R01 HL17589-01	47,178
PETERS, JOHN H.....	STUDIES OF ANTILEPROSY DRUGS IN ANIMALS AND MAN.....	BM	5R22 AI08214-08	65,510
REIST, ELMER J.....	STUDIES OF BIOLOGICALLY IMPORTANT SPHINGOLIPIDS.....	MCHA	1R01 AM17846-01	41,520
REIST, ELMER J.....	SYNTHESIS OF CNS ANTITUMOR AGENTS.....	MCHA	5R01 CA13911-03	39,666
REIST, ELMER J.....	NEURAMINIDASE ANTAGONISTS AS ANTIFERTILITY COMPOUNDS.....	MCHA	1R01 HD07988-01	53,771
SKINNER, WILFRED A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05522-13	143,339
SYRETT, BARRY C.....	ASSESSMENT OF TRIP STEELS FOR ORTHOPEDIC IMPLANTS.....	AFY	5R01 AM17150-02	53,789
WEAVER, CHARLES S.....	WEARABLE BLOOD PRESSURE AND ECG RECORDING SYSTEM.....	AFY	1R01 HL17604-01A1	190,283
ORGANIZATION TOTAL	34	2,847,060		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
<b>NORTHRIIDGE</b>				
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE UNIVERSITY, NORTHRIIDGE</b>		<b>ZIP CODE 91324</b>		
LEFEVRE, GEORGE, JR.	COMPARATIVE STUDIES ON INDUCED MUTATION IN DROSOPHILA	GEN	5R01 GM13631-10	44,251
OPPENHEIMER, STEVEN B.	MOLECULAR BASIS OF INTERCELLULAR ADHESION	MBY	2R01 CA12920-04	32,562
ORGANIZATION TOTAL	2	76,813		
<b>OAKLAND</b>				
<b>CHILDREN'S HOSPITAL MEDICAL CENTER OF NORTHERN CALIFORNIA</b>		<b>ZIP CODE 94609</b>		
ABRAHAM, SAMUEL	ALTERED GENOME EXPRESSION IN PRENEOPLASIA AND NEOPLASIA	PTHB	2R01 CA11736-06	140,196
ABRAHAM, SAMUEL	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05467-07	39,295
BARTLEY, JOHN C.	STUDY OF COORDINATION OF INTRACELLULAR ACTIVITIES	CBY	5R01 GM19837-03	60,667
FELDMAN, MARTIN K.	REGULATION OF MAMMARY EPITHELIUM IN CELL CULTURE	PTHB	1R01 CA15764-01A1	67,530
FOSTER, ROY C.	MILK SECRETION IN MAMMARY EPITHELIUM IN VITRO	SSS	1R01 HD09233-01	73,536
GREEN, GARY M.	NUTRITIONAL SIGNIFICANCE OF INTESTINAL PROTEOLYSIS	NTN	1R01 AM17737-01	57,731
NASSET, EDMUND S.	PHYSIOLOGICAL REGULATION OF SMALL GUT SECRETION	GMA	5R01 AM15258-06	45,154
SMITH, STUART	STRUCTURE AND SPECIFICITY OF LIPOGENIC ENZYMES	PC	5R01 AM16073-02	48,812
ORGANIZATION TOTAL	8	532,921		
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE</b>		<b>ZIP CODE 94612</b>		
HESTORFF, ROBERT D.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	5R10 CA14488-03	19,637
KEENE, CLIFFORD H.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05521-13	54,228
ORGANIZATION TOTAL	2	73,865		
<b>PALO ALTO</b>				
<b>PALO ALTO MEDICAL RESEARCH FOUNDATION</b>		<b>ZIP CODE 94301</b>		
INGELS, NEIL B. JR.	VENTRICULAR DYNAMICS FROM SURGICALLY INSERTED MARKERS	SGYA	1R01 HL17993-01	181,821
JOHNSON, BEN F.	GENETICS OF RADIATION AND RADIOMIMETIC AGENTS	RAD	5R01 CA05687-15	112,756
KRUPP, MARCUS A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05513-13	53,973
REMINGTON, JACK S.	TOXOPLASMOSIS: NATURE OF INFECTION & IMMUNE RESPONSE	TMP	5R01 AI04717-14	132,647
REMINGTON, JACK S.	ROLE OF TOXOPLASMA IN CANCER PREVENTION AND THERAPY	IMB	1R01 CA17545-01	55,862
ORGANIZATION TOTAL	5	537,059		
<b>PASADENA</b>				
<b>CALIFORNIA INSTITUTE OF TECHNOLOGY</b>		<b>ZIP CODE 91109</b>		
ALLMAN, JOHN M.	FUNCTIONAL ORGANIZATION OF VISUAL CORTX	NEUA	1R01 NS12131-01	43,462
ATTARDI, GIUSEPPE	GENE EXPRESSION AND CONTENT IN CELL DIFFERENTIATION	GEN	5R01 GM11726-12	228,800
BALDESCHWIELER, JOHN D.	STUDY OF BIOLOGICAL SYSTEMS BY NEW PHYSICAL METHODS	BBCB	2R01 GM21111-03	57,043
BATES, ROBERT H.	ROLE OF URBAN EMIGRANTS IN RURAL SOCIAL CHANGE	POP	2R01 HD05707-03	27,048
BERGMAN, ROBERT G.	CHEMISTRY OF NONBENZENOID AROMATIC MOLECULES	MCHA	5R01 CA15006-02	46,209
BERGMAN, ROBERT G.	METAL- AND MICELLE-CATALYZED CYCLIZATION REACTIONS	MCHB	2R01 GM16231-07	57,803
BONNER, JAMES F.	MOLECULAR BASIS OF GENETIC CONTROL	PC	5R01 GM13762-10	220,063
BROKAW, CHARLES J.	MECHANISMS OF MOVEMENT OF SIMPLE SPERM FLAGELLA	CBY	2R01 GM18711-04	50,013
BROKAW, CHARLES J.	COMPUTER SIMULATION OF SLIDING FILAMENT SYSTEMS	COM	1R01 GM21931-01	34,935
CHAN, SUNNEY I.	INVESTIGATIONS OF NUCLEIC ACID INTERACTIONS	BBCA	5R01 GM14523-09	95,272
CHRISTY, ROBERT F.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07003-10	99,887
DAVIDSON, ERIC H.	STUDY OF SEQUENCE STRUCTURE OF THE EUKARYOTIC GENOME	SSS	3P01 GM20927-01A1S1	9,288
DAVIDSON, ERIC H.	OÖGENESIS AND GENE CONTROL IN ANIMAL REPRODUCTION	MBY	5R01 HD05753-06	179,765
DAVIDSON, ERIC H.	YEAR ROUND S. PURPURATUS RESEARCH RESOURCE	CBY	1P06 RR00986-01	54,141
DAVIDSON, NORMAN R.	PHYSICAL CHEMISTRY OF NUCLEIC ACIDS	BBCA	5R01 GM10991-16	146,904
DELBURCK, MAX	THE LIGHT GROWTH RESPONSE CHANNEL OF PHYCOMYCYES	BBCA	5R01 GM21409-02	45,260
DICKERSON, RICHARD E.	STRUCTURE AND FUNCTION OF PROTEINS	BBCB	5R01 GM12121-11	135,539
DREYER, WILLIAM J.	IMMUNOREAGENTS FOR TUMOR RESEARCH AND IMMUNOTHERAPY	HEM	5R01 CA15926-02	85,929
EVANS, DAVID A.	ANTICANCER AND NEUROTOXIC ALKALOID SYNTHESIS	MCHB	1R01 CA17904-01	106,246
FENDER, DEREK H.	NONLINEAR IDENTIFICATION OF RETINAL BIOPOTENTIALS	VISB	1R01 EY01526-01	45,989
GAGNE, ROBERT R.	MODEL INORGANIC SYSTEMS FOR COPPER PROTEINS	MCHB	1R01 AM18319-01	31,215

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
HARTMAN, RICHARD E	HIGH RESOLUTION BIOLOGICAL ELECTRON MICROSCOPY	SSS	5R01 GM18619-03	186,172
HOOD, LEROY E	GENETICS OF ANTIBODY DIVERSITY, EXPRESSION AND EVOLUTION	GEN	2R01 AI10781-04	107,250
IRELAND, ROBERT E	PREPARATION OF FUSIDIC ACID AND MODIFIED STEROIDS	MCHA	5R01 AM14160-06	64,250
IRELAND, ROBERT E	THE SYNTHESIS OF APHIDICOLIN AND TIRANDAMYCIN	MCHA	1R01 CA18191-01	36,865
KONOPKA, RONALD J	GENETIC AND NEURAL ORGANIZATION OF A CIRCADIAN SYSTEM	CBY	1R01 GM22227-01	71,323
LESTER, H ALLEN	CONDUCTANCE OF NICOTINIC ACETYLCHOLINE RECEPTORS	NEUB	5R01 NS11756-02	54,557
LEWIS, EDWARD B	GENETIC CONTROL OF DEVELOPMENTAL PATHWAYS	GEN	5R01 HD06331-04	60,026
MARSH, RICHARD E	CRYSTAL STRUCTURE STUDIES ON COMPOUNDS RELATED TO DNA	BBCB	5R01 GM16966-06	60,222
MC CANN, GILBERT D	STUDY OF CEREBRAL AND RELATED SYSTEMS	NSPB	5P01 NS03627-13	315,424
NAKA, KEN-ICHI	FUNCTION OF NEURON NETWORKS IN VERTEBRATE VISUAL SYSTEMS	VISB	2R01 EY00898-04	104,494
NAKA, KEN-ICHI	COMPUTER-BASED ANALYSIS OF HISTOLOGICAL DATA	COM	5R01 NS10628-03	69,019
NORRIS, DAVID D	AN INTEGRATING ELECTRO-OPTICAL MS ION DETECTOR	MCHB	1R01 GM20850-01A1	151,296
RAFTERY, MICHAEL A	NEUROCHEMISTRY AND KINETICS OF SYNAPTIC TRANSMISSION	PHRA	2R01 NS10294-04	82,353
RAFTERY, MICHAEL A	CHEMISTRY AND KINETICS OF AXONAL CONDUCTION	BBCB	9R01 NS12018-09	73,617
REVEL, JEAN P	MOLECULAR BASIS OF SPECIFICITY IN CELLULAR MEMBRANES	SSS	5P01 GM06965-16	573,613
RICHARDS, JOHN H	MECHANISM OF ENZYME ACTION	PC	2R01 GM10218-13	48,087
RICHARDS, JOHN H	ENZYME SYSTEMS USING NUCLEAR MAGNETIC RESONANCE	BBCB	5R01 GM16424-07	59,505
RICHARDS, JOHN H	HEME PROTEINS, ERYTHROCYTES, AND SICKLE CELL ANEMIA	BBCB	5R01 HL15198-03	50,635
ROBERTS, JOHN D	NITROGEN-15 AND CARBON-13 NMR SPECTROSCOPY	BBCB	5R01 GM11072-13	77,506
RUSSELL, RICHARD L	GENETIC VARIANTS OF SYNAPTIC PROTEINS	NEUB	5R01 NS09654-05	67,019
SCHAEFER, WILLIAM P	X-RAY STUDY OF OXYGEN-CARRYING COBALT COMPLEXES	BBCA	5R01 HL12395-07	36,515
SCHROEDER, WALTER A	STRUCTURE-FUNCTION RELATIONSHIPS IN THE HEME PROTEINS	BIO	2R01 HL02558-19	109,243
SINSHEIMER, ROBERT L	STRUCTURE AND REPLICATION OF BACTERIAL VIRUSES	VR	5R01 GM13554-10	221,650
STRAUSS, JAMES H	A GENETIC ANALYSIS OF SINDBIS VIRUS	VR	2R01 AI10793-04	55,883
STROUD, ROBERT M	STRUCTURE AND FUNCTION OF PROTEINS AT MOLECULAR LEVEL	BBCB	5R01 GM19984-03	66,352
STRUMWASSER, FELIX	MECHANISMS OF INNATE AND ENTRAINED PATTERNS IN NEURONS	PHY	5R01 NS07071-09	98,192
VINOGRAD, JEROME	CIRCULAR DNA FROM ONCOGENIC VIRUSES AND MITOCHONDRIA	GEN	5R01 CA08014-11	191,934
VINOGRAD, JEROME	ULTRACENTRIFUGAL STUDIES OF BIOLOGICAL MACROMOLECULES	BBCA	5R01 GM15327-17	76,097
WAYLAND, HAROLD	BLOOD FLOW IN SMALL TUBES AND THE MICROCIRCULATION	CVB	5R01 HL08977-11	101,768
WIERSMA, C A	STUDY ON INTEGRATION IN THE VISUAL SYSTEMS	VISB	5R01 EY00906-04	73,173
WOOD, WILLIAM B	BIOCHEMISTRY AND GENETIC CONTROL OF VIRUS ASSEMBLY	VR	5R01 AI09238-07	128,757
ORGANIZATION TOTAL	52	5,273,608		
<b>PASADENA FOUNDATION FOR MEDICAL RESEARCH ZIP CODE 91101</b>				
OKIGAKI, TOHRU	STUDY OF HEPATOCARCINOGENESIS IN CULTURE	PTHB	5R01 CA13376-03	48,716
ORGANIZATION TOTAL	1	48,716		
<b>POMONA</b>				
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY—PACIFIC STATE HOSPITAL ZIP CODE 91768</b>				
EYMAN, RICHARD K	PROGRAM FOR THE DEVELOPMENT OF THE MENTALLY RETARDED	HDMR	5P01 HD05540-04	326,062
KIHARA, HAYATO	MENTAL RETARDATION-DEFECT IN HURLER'S SYNDROME	MET	5R01 HD04331-05	43,753
ORGANIZATION TOTAL	2	369,815		
<b>REDLANDS</b>				
<b>UNIVERSITY OF REDLANDS ZIP CODE 92373</b>				
IFFT, JAMES B	PHYSICAL CHEMISTRY OF PROTEINS IN SALT SOLUTIONS	BBCA	5R01 GM18871-08	22,987
ORGANIZATION TOTAL	1	22,987		
<b>RIVERSIDE</b>				
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT RIVERSIDE ZIP CODE 92502</b>				
BARTNICKI-GARCIA, SALOMON	BIOCHEMISTRY OF MORPHOGENESIS IN MUCOR	MBC	5R01 AI05540-11	39,017
CASTRO, C E	THE OXIDATION AND REDUCTION OF HEMEPROTEINS	SSS	1R01 AM17936-01	52,518
FURLONG, CLEMENT E	INVESTIGATIONS OF MEMBRANE TRANSPORT SYSTEMS	MBC	2R01 GM18311-04	41,458
GIBIAN, MORTON J	STUDIES ON PROSTAGLANDIN SYNTHETASE AND LIPOXYGENASE	SSS	1R01 GM21903-01	32,105
HEATH, ROBERT L	ALTERATIONS OF CELL MEMBRANES AND METABOLISM BY OZONE	TOX	1R01 ES01204-01	43,224
HELMKAMP, GEORGE K	SYNTHESIS OF POTENTIAL NEW PSYCHOACTIVE MOLECULES	MCHB	3R01 GM20602-01S1	4,635



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
HOLTEN, DAROLD D.....	NUTRITIONAL-HORMONAL CONTROL OF G-6-PD4 DEHYDROGENASE ..	NTN	2R01 AM13324-07	40,719
KEARNS, DAVID R.....	STRUCTURAL STUDIES OF RNA.....	BBCA	3R01 GM21431-01S1	11,834
MILLER, THOMAS A.....	MODE OF ACTION OF INSECTICIDES.....	TOX	5R01 ES00814-06	29,403
MUDD, JOHN B.....	BIOCHEMICAL EFFECTS OF AIR POLLUTANT OXIDANTS.....	TOX	1R01 ES00917-01	75,325
MULLA, MIR S.....	HOUSE-DUST MITES & ALLERGY, PREVENTIVE MEASURE & CONTROL ..	TMP	1R01 AI11329-01A1	32,081
NOLTMANN, ERNST A.....	STUDIES ON PHOSPHOHEXOSE ISOMERASES.....	PC	5R01 AM07203-13	82,986
NORMAN, ANTHONY W.....	STUDIES ON VITAMIN D AND CALCIUM METABOLISM.....	GMB	5R01 AM09012-11	74,857
NORMAN, ANTHONY W.....	STUDIES ON VITAMIN D METABOLISM IN HUMANS.....	GMB	2R01 AM14750-04	71,581
OKAMURA, WILLIAM H.....	PREPARATION OF VITAMIN D ANALOGS AND METABOLITES.....	MCHA	5R01 AM16595-02	61,492
OLSEN, RICHARD W.....	MOLECULAR MECHANISMS OF NEUROTRANSMITTER ACTION.....	PHRA	1R01 NS12422-01	24,569
PENGELLEY, ERIC T.....	ULTRASTRUCTURE AND LIPID ANALYSIS OF HIBERNATOR HEARTS.....	CVA	3R01 HL13532-04S1	1,457
PENGELLEY, ERIC T.....	ULTRASTRUCTURE AND LIPID ANALYSIS OF HIBERNATOR HEARTS.....	CVA	2R01 HL13532-05A1	18,149
PETRINOVICH, LEWIS F.....	SPECIES - MEANINGFUL STUDIES OF HABITUATION.....	EXP	5R01 HD04343-05	24,296
PLATZER, EDWARD G.....	FOLATE METABOLISM IN MALARIAL PARASITES.....	TMP	5R01 AI11254-02	19,550
REID, BRIAN R.....	ENZYMATIC RECOGNITION OF TRANSFER OF RNA.....	PC	2R01 CA11697-04	44,463
RIESEN, AUSTIN H.....	VISION IN SPECIAL ENVIRONMENTS-DEVELOPMENTAL EFFECTS.....	EXP	3R01 EY00573-12S1	3,851
SHERMAN, IRWIN W.....	HOST-PARASITE INTERRELATIONSHIPS IN THE MALARIAS.....	TMP	5R01 AI05226-11	30,048
THOMSON, WILLIAM W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07010-10	39,312
TRAUGH, JOLINDA A.....	EFFECTS OF RIBOSOME PHOSPHORYLATION ON TRANSLATION.....	MBY	3R01 GM21424-01S1	4,642
ORGANIZATION TOTAL	25	903,572		
<b>SACRAMENTO</b>				
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY      ZIP CODE 95814</b>				
PAFFENBARGER, RALPH S, JR.....	REPRODUCTIVE CAPACITY AND BREAST OR OVARY CANCER RISK.....	SSS	1R01 CA17838-01	200,666
ORGANIZATION TOTAL	1	200,666		
<b>SAN DIEGO</b>				
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES-SAN DIEGO STATE UNIVERSITY      ZIP CODE 92115</b>				
ABBOTT, MITCHEL T.....	ENZYMOLGY OF THE OXIDATIVE METABOLISM OF THYMIDINE.....	PC	5R01 AM09314-11	28,495
DAHMS, A STEPHEN.....	CHEMICAL PROBES AT MEMBRANE STRUCTURE AND FUNCTION.....	BIO	1R01 GM22197-01	46,159
ORGANIZATION TOTAL	2	74,654		
<b>LABORATORY FOR COMPARATIVE BIOCHEMISTRY      ZIP CODE 92109</b>				
BARTLETT, GRANT R.....	RED CELL METABOLISM.....	HEM	5R01 HL06950-14	54,788
ORGANIZATION TOTAL	1	54,788		
<b>LEONELL C. STRONG RESEARCH FOUNDATION      ZIP CODE 92121</b>				
STRONG, LEONELL C.....	GENETIC STUDIES ON CANCER CONTROL.....	IMB	5R01 CA13862-03	64,100
ORGANIZATION TOTAL	1	64,100		
<b>MERCY HOSPITAL AND MEDICAL CENTER      ZIP CODE 92103</b>				
GELLER, JACK.....	EFFECT OF PROGESTERONE ON PROSTATE SIZE AND MORPHOLOGY ...	END	2R01 CA12448-05	46,816
ORGANIZATION TOTAL	1	46,816		
<b>SAN FRANCISCO</b>				
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES-SAN FRANCISCO STATE UNIVERSITY      ZIP CODE 94132</b>				
AINSWORTH, CAMERON.....	NEW SYNTHESIS OF BIOLOGICAL COMPOUNDS.....	MCHA	5R01 GM19925-02	31,720
BOWEN, SARANE T.....	GENETIC REGULATION OF HEMOGLOBIN SYNTHESIS IN ARTEMIA.....	GEN	5R01 HL11445-07	33,823
LINDQUIST, ROBERT N.....	MECHANISMS IN ENZYMATIC CATALYSIS.....	PC	5R01 GM20817-02	18,308
ORGANIZATION TOTAL	3	83,851		
<b>CHILDREN'S HOSPITAL OF SAN FRANCISCO      ZIP CODE 94119</b>				
BARTOLUCCI, LOUIS.....	A LONGITUDINAL STUDY OF FETAL GROWTH.....	HED	5R01 HD06554-02	17,880
ORGANIZATION TOTAL	1	17,880		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
<b>INSTITUTES OF MEDICAL SCIENCES      ZIP CODE 94120</b>				
BACH-Y-RITA, PAUL .....	PERIPHERAL NEUROPHYSIOLOGY OF EYE MOVEMENTS.....	VISA	1R01 EY01474-01A1	122,426
FALLAT, ROBERT J. ....	ALPHA 1 ANTITRYPSIN DEFICIENCY & PULMONARY DISEASE.....	CVA	2R01 HL14692-04	57,825
GLASER, CHARLES B. ....	COMPARISON OF TWO INHERITED FORMS OF ALPHA-1-ANTITRYPSIN.....	PC	1R01 HL17194-01A1	47,049
HILL, J DONALD.....	CEREBRAL FAT EMBOLI ASSOCIATED WITH CARDIAC SURGERY.....	SGYA	5R01 HL14926-02	63,309
JAMPOLSKY, ARTHUR .....	STUDY OF VISUAL SCIENCES.....	VSN	5P01 EY01186-03	175,411
JAMPOLSKY, ARTHUR .....	CLINICAL STRABISMUS CENTER GRANT.....	VSN	1P15 EY01585-01	137,921
KERTH, WILLIAM J.....	LATE PATENCY AND FLOW STUDIES FOR AORTOCORONARY GRAFTS.....	SGYA	5R01 HL14622-03	18,500
LEVY, JOSEPH V.....	HYPERTENSION AND CAOD PUMP FUNCTION OF ARTERIAL MUSCLE.....	CVB	1R01 HL16777-01A1	43,526
NAKAYAMA, KEN.....	THREE-DIMENSIONAL EYE ROTATION MEASUREMENTS: STRABISMUS.....	VISA	1R01 EY01582-01	49,801
OSBORN, JOHN J.....	COMPUTER-BASED ON-LINE MEASUREMENT OF INTENSIVE CARE.....	SSS	5R01 HL14740-04	284,723
OSBORN, JOHN J.....	OXYGEN UPTAKE, RQ, AND AIRFLOW IN RESPIRATOR PATIENTS.....	CVA	5R01 HL16494-02	32,625
OSBORN, JOHN J.....	PREVENTION OF BLOOD DAMAGE DURING SURGICAL PERFUSION.....	SGYB	1R01 HL17454-01A1	29,632
PERSIDSKY, MAXIM D.....	LONG-TERM BANKING OF BONE MARROW FOR CLINICAL USE.....	SGYA	5R01 CA12754-04	83,079
PETZ, LAWRENCE D.....	IMMUNE TISSUE INJURY - MECHANISM AND CLINICAL RELEVANCE.....	ALY	7R01 NS12364-01	88,085
WILLIAMS, GEORGE Z.....	PROFILE STUDY OF NORMAL SUBJECTS.....	SSS	2R01 GM17369-06	614,979
WILLIAMS, GEORGE Z.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05566-12	148,357
ORGANIZATION TOTAL	16      1,997,248			
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE      ZIP CODE 94123</b>				
HENDRICKSON, CHARLES G.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	5R10 CA14449-03	23,371
ORGANIZATION TOTAL	1      23,371			
<b>MOUNT ZION HOSPITAL AND MEDICAL CENTER      ZIP CODE 94120</b>				
BEADNER, SOL A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05472-13	52,675
CASTRO, JOSEPH R.....	EXPLORATORY STUDIES FOR CANCER PATIENT REHABILITATION.....	SRC	1R18 CA16873-01	115,077
FINLEY, THEODORE N.....	AVLEOLAR MACROPHAGE FUNCTION IN THE IMPAIRED HOST.....	SGYB	1R01 HL17495-01	47,295
FRIEDMAN, MEYER.....	REGULATION OF CHOLESTEROL AND PHOSPHATIDE METABOLISM.....	MET	5R01 HL00119-26	107,408
LEEDS, SANFORD E.....	RELATION OF LYMPHATICS TO CARDIOPULMONARY FUNCTION.....	SGYB	5R01 HL03180-18	55,124
ROSENMAN, RAY H.....	CENTRAL NERVOUS SYSTEM AND CORONARY HEART DISEASE.....	SSS	3R01 HL03429-15S1	1,948
ROSENMAN, RAY H.....	CENTRAL NERVOUS SYSTEM AND CORONARY HEART DISEASE.....	SSS	5R01 HL03429-16	51,465
SILVERBERG, IVAN J.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	5R10 CA14442-03	45,026
ORGANIZATION TOTAL	8      476,018			
<b>SAN FRANCISCO HEARING AND SPEECH CENTER      ZIP CODE 94115</b>				
COMPTON, ARTHUR J.....	GENERATIVE STUDIES OF THE SOUND SYSTEMS OF CHILDREN.....	CMS	5R01 HD07185-03	52,578
ORGANIZATION TOTAL	1      52,578			
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL      ZIP CODE 94118</b>				
LEVY, LOUIS.....	PHARMACOLOGY AND BIOLOGY OF EXPERIMENTAL LEPROSY.....	BM	2R22 AI07801-09	67,540
SMITH, WILLIAM M.....	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION.....	TEC	5R01 HL10711-09	137,552
VAILLANCOURT, JOHN A.....	COOPERATIVE STUDY ON TREATMENT OF HYPERTENSION.....	TEC	5R01 HL10712-09	72,155
ORGANIZATION TOTAL	3      277,247			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO      ZIP CODE 94143</b>				
ABLIN, ARTHUR R.....	CHILDREN'S CANCER STUDY GROUP.....	CCI	1R10 CA17829-01	65,551
ADELSON, JOEL W.....	CHYMOTENIN: STIMULATION OF ENZYME-SELECTIVE SECRETION.....	GMA	1R01 AM17942-01	61,987
ADMIRAND, WILLIAM H.....	ROLE OF LITHOCHOLATE IN DISEASE OF THE HUMAN LIVER.....	GMA	5R01 AM13857-05	63,593
ALY, RAZA.....	SURVIVAL OF PATHOGENIC MICROORGANISMS ON HUMAN SKIN.....	BM	2R01 AI10856-03	40,445
APPLE, MARTIN A.....	DRUGS PREVENTING ONCORNAVIRUS CANCERS: ANTHRACYCLINES.....	VR	5R01 CA14894-02	56,230
ARIEFF, ALLEN I.....	BLOOD BRAIN BARRIER AND CARBOHYDRATE METABOLISM.....	MET	7R01 AM18350-01	36,496
ARIEFF, ALLEN I.....	TREATMENT OF BRAIN EDEMA DUE TO METASTATIC CANCER.....	GMB	7R01 CA18043-01	58,349
BAINTON, DOROTHY F.....	MATURATION AND FUNCTION OF WBC AND MEGAKARYOCYTES.....	PTHA	5R01 AM10486-10	49,042
BAINTON, DOROTHY F.....	PATHOLOGY OF CELL DIFFERENTIATION IN LEUKEMIA.....	PTHA	5R01 CA14264-03	42,189
BAUMRIND, SHELTON.....	DENTOFACIAL EFFECTS OF FORCES TO RETRACT THE MAXILLA.....	DEN	2R01 DE03598-03	54,762
BAXTER, JOHN D.....	ROLE OF STEROIDS IN HYPERTENSION.....	GMB	5R01 HL16918-02	42,195
BHATNAGAR, RAJENDRA S.....	REGULATION OF COLLAGEN BIOSYNTHESIS.....	DEN	5R01 DE03861-02	60,387
BIER, DENNIS M.....	STABLE ISOTOPE STUDIES OF FUEL TRANSPORT IN CHILDREN.....	MET	5R01 HD08340-02	58,919
BIGLIERI, EDWARD G.....	SECRETORY STEROID MIXTURES OF ADRENAL CORTEX.....	END	5R01 AM06415-13	77,499

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
BIGLIERI, EDWARD G.	RENIN, ANGIOTENSIN, STEROIDS, IONS, AND BLOOD PRESSURE	CVB	5R01 HL11046-09	54,536
BISHOP, J. MICHAEL	ROUS SARCOMA VIRUS REPLICATION AND CELL TRANSFORMATION	SSS	2R01 CA12705-04	255,448
BISSELL, DWIGHT M., JR.	REGULATION OF BIOTRANSFORMATION IN THE LIVER	PHRA	5R01 GM21042-02	38,272
BLAISDELL, F. WILLIAM	TRAUMA RESEARCH PROGRAM	SSS	2P01 GM18470-04	255,710
BLEECKER, EUGENE R.	MECHANISMS OF EXPERIMENTAL ASTHMA	YIP	1R23 HL18420-01	23,512
BOHANNON, RICHARD A.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	5R10 CA14518-03	29,227
BOLDREY, EDWIN B.	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE	SSS	1R01 NS12497-01	17,363
BOYER, HERBERT W.	MECHANISMS OF THE RESTRICTION AND MODIFICATION OF DNA	GEN	5R01 GM14378-09	84,038
BRADLEY, THOMAS B., JR.	ABNORMAL HEMOGLOBINS AND FIBRINOGENS	HEM	5R01 HL15329-03	45,213
BRECHER, GEORGE	HEMOPOIETIC DIFFERENTIATION AND MYELOFIBROSIS	HEM	5R01 CA14679-03	66,805
BRECHER, GEORGE	AUTOMATED DATA PROCESSING FOR CLINICAL LABORATORIES	COM	5R01 GM14905-09	67,739
BRENNER, BARRY M.	CONTROL OF FLUID ABSORPTION BY THE MAMMALIAN NEPHRON	PHY	5R01 AM13888-06	51,720
BROWN, KENNETH T.	NEUROPHYSIOLOGY OF THE VERTEBRATE RETINA	VISB	2R01 EY00468-16	142,801
CALARCA, PATRICIA G.	INTRACISTERNA A PARTICLES IN MOUSE DEVELOPMENT	PTHB	1R01 CA16493-01	44,262
CARLSSON, S. ERIK	THROMBOTIC COMPLICATIONS OF CATHETER ANGIOGRAPHY	RAD	5R01 GM20980-02	54,825
CASEY, WILLIAM J.	APPLICATION OF EXPERIMENTAL ANIMAL MODELS TO GLAUCOMA	VISA	2R01 EY00418-07	69,644
CHEESMAN, DEAN W.	CHARACTERIZATION OF A PINEAL ANTI-OVULATORY COMPOUND	REB	5R01 HD07239-02	32,884
COLERIDGE, JOHN C.	VAGAL C-FIBERS FROM CARDIOPULMONARY RECEPTORS	PHY	5R01 HL13875-05	65,344
COMROE, JULIUS H., JR.	SUPPORT FOR PULMONARY DISEASE RESEARCH CENTER	SRC	5P17 HL14201-05	1,030,237
CONNELL, CAROLYN J.	THE EFFECT OF HCG ON SERTOLI CELLS	REB	7R01 HD10033-01	33,550
COOKE, ROGER	THE MOLECULAR MECHANISM OF MUSCLE CONTRACTION	BBCB	5R01 HL17559-02	15,604
CREASY, ROBERT K.	PATHOPHYSIOLOGY OF RETARDATION OF FETAL GROWTH	HED	5R01 HD06619-03	75,153
DAENTL, DONNA L.	EMBRYO SIZE & NUCLEOTIDE SYNTHESIS, A CANCER STUDY	CBY	5R01 HD07061-02	57,518
DALLMAN, PETER R.	CELLULAR ADAPTATIONS TO MALNUTRITION	NTN	5R01 GM13897-06	64,932
DAWSON, CHANDLER R.	ANALYSIS OF PROBLEMS IN OCULAR INFLAMMATORY DISEASES	VIS	5R01 EY00427-06	131,471
DAWSON, CHANDLER R.	PATHOGENESIS AND EARLY DIAGNOSIS OF EYE INFLAMMATIONS	VISA	5R01 EY01198-02	46,542
DEAL, DAVEY R.	BILE SALT TRANSPORT IN HEPATOCYTES	GMA	5R01 AM17785-02	63,896
DEDO, HERBERT H.	NEUROPHYSIOLOGICAL STUDY OF LARYNX AND PHARYNX	CMS	5R01 NS06527-09	43,065
DENNIS, MICHAEL J.	PHYSIOLOGY OF SYNAPSES DEVELOPING IN VIVO	NEUB	5R01 NS10792-03	28,307
DIAMOND, IVAN F.	PHOTODYNAMIC THERAPY OF MALIGNANT TUMORS	ET	5R01 CA15341-02	34,020
DIAMOND, IVAN F.	CHOLINE AND ACETYLCHOLINE TRANSPORT AND METABOLISM	NEUB	5R01 NS08674-06	36,437
DIRKSEN, ELLEN R.	DEVELOPMENT, COMPOSITION, AND FUNCTION OF OVIDUCT CILIA	REB	5R01 HD06374-03	61,266
DUNLAP, MARGORIE S.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05604-03	61,460
EBERT, PAUL A.	EVALUATION OF REJECTION OF CARDIAC TRANSPLANTS	SGYB	7R01 HL18837-01	68,375
EDELMAN, ISIDORE S.	CELL MEMBRANE DETERMINANTS OF NaCl TRANSPORT IN SKIN	PHY	5R01 AM13659-05	34,379
EPSTEIN, CHARLES J.	STUDY OF HUMAN GENETICS	SSS	5P01 GM19527-04	636,045
EPSTEIN, CHARLES J.	BIOCHEMISTRY OF EARLY HUMAN AND MOUSE DEVELOPMENT	CBY	2R01 HD03132-08	79,289
EPSTEIN, ERVIN H., JR.	MOLECULAR HETEROGENEITY OF HUMAN SKIN COLLAGEN	GMA	5R01 AM16478-03	31,457
EPSTEIN, ERVIN H., JR.	GLUCOCORTICOID INTERACTION WITH HUMAN SKIN	GMA	1R01 AM18495-01	45,504
EPSTEIN, JOHN H.	CHEMOTHERAPEUTIC AGENTS AND ULTRAVIOLET CARCINOGENESIS	ET	5R01 CA15605-02	40,918
EPSTEIN, LEON J.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05755-02	122,318
EPSTEIN, LOIS B.	INTERFERON AS A MEDIATOR OF CELLULAR IMMUNITY	ALY	1R01 AI12481-01	69,879
EPSTEIN, LOIS B.	THE ROLE OF INTERFERON IN HUMAN IMMUNITY TO TUMORS	IMB	5R01 CA14508-02	57,767
EPSTEIN, WALLACE V.	NATURE OF HUMAN ANTIGAMMA GLOBULINS	GMA	5R01 AM01229-19	65,857
EPSTEIN, WILLIAM L.	STUDIES OF GRANULOMATOUS HYPERSENSITIVITY	GMA	3R01 AM07939-12S1	45,730
EPSTEIN, WILLIAM L.	COOPERATIVE CLINICAL STUDY OF MALIGNANT MELANOMA	CCI	2R10 CA13671-03	198,779
ERICKSON, ROBERT P.	CELLULAR AND HUMORAL IMMUNITY WITH MURINE SPERMATOZOA	REB	1R01 HD08257-01A1	40,260
FELTS, JAMES M.	REMOVAL MECHANISM AND PLASMA LIPOPROTEIN HOMEOSTASIS	MET	5R01 HL15514-02	494
FISHMAN, NOEL H.	DETERMINANTS OF FETAL LAMB CARDIOVASCULAR DEVELOPMENT	HED	5R01 HL15798-03	50,067
FISHMAN, ROBERT A.	EXPERIMENTAL METABOLIC ENCEPHALOPATHIES	NEUA	5R01 NS07336-08	77,268
FORSHAM, PETER H.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00079-13	1,161,015
FRICK, OSCAR L.	ALLERGIC DISEASES CENTER	AIRC	5P15 AI11010-03	59,478
FRICK, OSCAR L.	A STUDY OF PATHOGENESIS OF ATOPIC DERMATITIS	ALY	1R01 AI13156-01A1	41,613
FRIEND, DANIEL S.	PATHOLOGICAL EFFECTS OF VASECTOMY ON PERMEABILITY	REB	5R01 HD06895-03	46,048
FUDENBERG, H. HUGH	ANTI-COLLAGEN ANTIBODIES, MM FACTORS, AND CAMP IN RA	ALY	5R01 AM16213-04	19,647
FUKUYAMA, KIMIE	CYTOCHEMICAL STUDIES ON THE KERATINIZATION PROCESS	GMA	5R01 AM12433-08	62,856
GALLO, ROBERT V.	BRAIN REGULATION OF THE ANTERIOR PITUITARY	REB	2R01 HD05577-04A1	67,107
GANONG, WILLIAM F.	NEURAL AND HUMORAL CONTROL OF ENDOCRINE FUNCTION	AMP	3P01 AM06704-12S1	67,100
GANONG, WILLIAM F.	NEURAL AND HUMORAL CONTROL OF ENDOCRINE FUNCTION	SSS	2P01 AM06704-13	247,434
GOLBUS, MITCHELL S.	MEIOTIC NON-DISJUNCTION IN MOUSE AND HUMAN OVA	HED	1R01 HD09412-01	60,312



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
GOLDBERG, MELVIN L.....	CYCLIC NUCLEOTIDE BINDING AND CONTENT IN MALIGNANCY.....	PTHB	1R01 CA17242-01	61,452
GOLDSTEIN, GARY W.....	METABOLIC ACTIVITY OF CAPILLARIES.....	TOX	1R01 ES01164-01	56,023
GONDOS, BERNARD.....	STUDY OF GONADAL DIFFERENTIATION IN THE FETUS.....	REB	5R01 HD08202-03	30,598
GONDOS, BERNARD.....	STRUCTURAL MATURATION OF THE PREPUBERTAL RABBIT TESTIS.....	REB	5R01 HD08940-02	38,650
GOODMAN, HOWARD M.....	STRUCTURE AND FUNCTION OF TUMOR VIRUS DNA SV40.....	VR	5R01 CA14026-03	80,060
GOODMAN, JOEL W.....	STRUCTURE OF IMMUNOLOGIC DETERMINANTS OF PROTEINS.....	ALY	5R01 AI05664-12	76,639
GOODMAN, JOEL W.....	INDUCTION OF CELLULAR IMMUNITY TO HAPTENS.....	IMB	5R01 AI11983-02	59,807
GOODSON, JO M.....	ROLE OF PROSTAGLANDINS IN PERIODONTAL DISEASE.....	DEN	2R01 DE03556-04	111,938
GOYAN, JERE E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05453-13	97,065
GRILLO, MARY A.....	STRUCTURE OF SYMPATHETIC INTERNEURONS AND RELATED CELLS.....	NEUB	1R01 NS11993-01	76,864
GRODSKY, GEROLD M.....	INSULIN PRODUCTION BY THE PERFUSED PANCREAS.....	MET	5R01 AM01410-17	79,110
GUMBACH, MELVIN M.....	HORMONAL EFFECTS ON GROWTH AND MATURATION.....	END	5R01 HD02335-10	109,656
GUTHRIE, CHRISTINE.....	BIOSYNTHESIS OF BACTERIOPHAGE T4 TRANSFER RNAs.....	SSS	5R01 GM21119-02	46,382
HAMILTON, WILLIAM K.....	ANESTHESIA RESEARCH PROGRAM.....	GMP	5P01 GM15571-07	538,309
HARVOLD, EGIL P.....	EXPERIMENTAL STUDY ON THE ETIOLOGY OF MALOCCLUSION.....	DEN	2R01 DE02739-06A1	182,751
HAVEL, RICHARD J.....	CARDIOVASCULAR - RESPIRATORY PHYSIOLOGY AND BIOCHEMISTRY.....	HEP	2P01 HL06285-15	3,783,643
HAVEL, RICHARD J.....	SUPPORT FOR ARTERIOSCLEROSIS CENTER.....	SRC	5P17 HL14237-05	564,170
HAYASHIDA, TETSUO.....	STUDIES WITH GROWTH HORMONE AND PROLACTIN.....	END	5R01 HD04663-07	69,433
HEUSER, JOHN E.....	MORPHOLOGY OF SYNAPTIC VESICLE DISCHARGE AND RETRIEVAL.....	CBY	1R01 NS11979-01	95,205
HEYNEMAN, DONALD.....	INTERACTIONS OF LARVAL TREMATODES WITHIN SNAIL VECTORS.....	SSS	2R22 AI07054-10	65,762
HINMAN, FRANK, JR.....	FUNCTION AND DEFENSES OF URETHRAL EPITHELIUM.....	SGYA	2R01 AM10045-09	43,693
HOGAN, MICHAEL J.....	PATHOGENESIS OF MACULAR DEGENERATION.....	VISA	2R01 EY00799-04	45,337
HOLLENBERG, MILTON.....	GROWTH PROCESSES IN CARDIAC AND SKELETAL MUSCLE.....	HED	1R01 HD07938-01	21,483
HOROWITZ, MARDI J.....	THE IMPACT OF STRESS ON CORONARY HEART DISEASE.....	EDC	1R01 HL17580-01	28,084
HOWES, EDWARD L, JR.....	PATHOGENESIS OF ALTERED OCULAR VASCULAR PERMEABILITY.....	VISA	2R01 EY00056-06	32,991
HUNT, THOMAS K.....	A STUDY OF WOUND HEALING.....	SGYB	3R01 GM12829-10S1	46,313
INGBAR, SIDNEY H.....	NORMAL AND DISORDERED THYROID HORMONE ECONOMY.....	SSS	3R01 AM16497-02S1	14,341
JACOBS, EDWIN M.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	5R10 CA03485-19	95,607
JAFFE, ROBERT B.....	REGULATION OF THE HUMAN HYPOTHALAMIC-PITUITARY SYSTEM.....	REB	5R01 HD08035-02	60,678
JAFFE, ROBERT B.....	PRIMATE ENDOCRINE REGULATION IN THE PERINATAL PERIOD.....	END	3R01 HD08478-01S1	12,346
JAWETZ, ERNEST.....	VIRAL KERATOCONJUNCTIVITIS AND RELATED DISORDERS.....	VIS	5R01 EY00186-21	127,355
JEWETT, DON L.....	SPECIFIC EFFECTS ON AUDITORY FAR FIELDS IN ANIMALS.....	EXP	2R01 HD07991-02	58,331
JEWETT, DON L.....	FAR FIELD AUDITORY DEVELOPMENT IN PREMATURE INFANTS.....	CMS	1R01 NS12352-01	90,934
JOCSON, VICENTE L.....	CONGENITAL GLAUCOMA PATHOGENESIS, DIAGNOSIS, THERAPY.....	VISA	5R01 EY01324-02	88,493
JOHNSON, KENNETH P.....	VIRUS EFFECTS ON THE FETAL NERVOUS SYSTEM.....	VR	7R01 HD09276-01	31,934
JOHNSON, KENNETH P.....	PATHOGENESIS OF SUBACUTE SCLEROSING PANENCEPHALITIS.....	VR	7R01 NS12064-01	43,935
JOHNSON, KENNETH P.....	BIOLOGY OF LATENT MEASLES VIRUS INFECTION IN THE CNS.....	VR	2R01 NS12064-02	56,453
JORGENSEN, EUGENE C.....	PEPTIDE HORMONE ANALOGS.....	MCHA	5R01 AM08066-11	46,518
JORGENSEN, EUGENE C.....	THYROID HORMONE ANALOGS.....	MCHA	1R01 AM17576-01	50,855
KALTREIDER, H BENFER.....	IMMUNE FUNCTIONS OF THE LUNG.....	IMB	1R01 AI12296-01	47,890
KAN, YUET W.....	STUDY OF ABNORMAL HEMOGLOBIN SYNTHESIS.....	HEM	5R01 AM16666-02	58,079
KAPLAN, SELNA L.....	IMMUNOCHEMISTRY AND PHYSIOLOGY OF GROWTH HORMONES.....	END	5R01 AM10723-09	55,152
KATZUNG, BERTRAM G.....	DEPOLARIZATION INDUCED CARDIAC AUTOMATIVITY.....	PHRA	1R01 HL17452-01	39,750
KELLY, REGIS B.....	BIOCHEMISTRY OF SYNAPTIC TRANSMISSION.....	SSS	2R01 NS09878-04	81,011
KENYON, GEORGE L.....	THE ACTIVE SITE OF CREATINE KINASE FROM MUSCLE.....	MCHA	2R01 AM17323-03	49,740
KIM, YOUNG S.....	INTESTINAL PEPTIDE HYDROLASES AND PEPTIDE TRANSPORT.....	GMA	1R01 AM17938-01	50,692
KIM, YOUNG S.....	REGULATION OF GLYCOPROTEIN METABOLISM IN CYSTIC FIBROSIS.....	GMA	1R01 AM17940-01	42,426
KIM, YOUNG S.....	GLYCOPROTEIN METABOLISM IN COLONIC NEOPLASIA.....	SRC	5R26 CA14905-03	55,770
KOLLMAN, PETER A.....	STUDIES OF INTERMOLECULAR INTERACTIONS.....	BBCA	5R01 GM20564-02	41,005
KORENBROT, JUAN I.....	RHODOPSIN AND TRANSDUCTION IN ROD PHOTORECEPTORS.....	VISB	1R01 EY01586-01	69,167
KRAMER, STEVEN G.....	INTRA-OCULAR USE OF 6-OH-DOPAMINE IN GLAUCOMA THERAPY.....	VISA	1R23 EY01353-01	5,834
KREIVANS, JULIUS R.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00083-13	503,747
KREIVANS, JULIUS R.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05355-14	255,345
KUN, ERNEST.....	TRICARBOXYLATE CARRIER OF CARDIAC MITOCHONDRIA.....	PC	1R01 GM20552-01A1	37,552
KUNTZ, IRWIN D, JR.....	HYDRATION OF MACROMOLECULES.....	BBCB	2R01 GM19267-04	53,797
KUNTZ, IRWIN D, JR.....	NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY RESOURCE.....	BBCB	1P07 RR00892-01A1	222,468
LEVIN, VICTOR A.....	PHARMACOKINETICS OF BRAIN-TUMOR CHEMOTHERAPY.....	ET	5R01 CA15435-03	54,129
LEVY, JAY A.....	IDENTIFICATION OF VIRUSES ASSOCIATED WITH HUMAN CANCER.....	VR	3R01 CA13086-03S1	26,060
LEVY, JAY A.....	IDENTIFICATION OF VIRUSES ASSOCIATED WITH HUMAN CANCER.....	VR	2R01 CA13086-04	42,096
LI, CHOH H.....	PITUITARY LACTOGENIC AND GONADOTROPIC HORMONES.....	END	2R01 AM06097-21	95,108



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
LI, CHOH H.	ACTH AND RELATED PEPTIDES	END	5R01 GM02907-24	84,582
LIBET, BENJAMIN	SYNAPTIC TRANSMISSION IN AUTONOMIC GANGLIA	PHY	2R01 NS00884-19	67,919
LIE-INO, LUAN E.	BLOOD GENETICS IN CALIFORNIA, MALAYSIA AND INDONESIA	GEN	2R01 HL10486-07A1	74,545
LIE, KIAN J.	BIOLOGICAL CONTROL OF SCHISTOSOMES	TMP	5R22 AI08520-08	26,208
LIN, TEH P.	FUSION AND DEVELOPMENT OF MAMMALIAN BLASTOMERES	CBY	5R01 HD02186-10	36,435
LOWENTHAL, MARJORIE F.	PROGRAM PROJECT IN HUMAN DEVELOPMENT AND AGING	H0AG	9P01 AG00002-04	316,827
LYONS, WILLIAM R.	HORMONAL CONTROL OF THE MAMMARY GLAND AND GESTATION	END	5R01 HD02371-09	24,082
MARCUS, MARILYN M.	AGE CHANGE IN THE SSE OF AUDITORY EVOKED RESPONSES	NP	1R01 HD09573-01	26,208
MARGULIS, ALEXANDER R.	NON-CONTRACTILE TRANSPORT OF RADIOPAQUE POWER IN COLON	RAD	2R01 AM15937-03	51,360
MARGULIS, ALEXANDER R.	STUDY OF DIAGNOSTIC RADIOLOGY	SSS	5P01 GM21017-02	118,160
MARTON, LAURENCE J.	POLYAMINES AND BRAIN TUMOR CHEMOTHERAPY	ET	1R01 CA15515-01A1	52,989
MAYER, EARL	A CELLULAR ANALYSIS OF CARDIO-REGULATION	PHY	1R01 NS10246-01A1	42,831
MC CARTHY, BRIAN J.	TRANSCRIPTION OF HISTONE GENES FROM CHROMATIN	BIO	2R01 GM20287-03	59,155
MC DONAGH, ANTONY F.	MECHANISMS OF HEME AND BILIRUBIN DEGRADATION	GMA	1R01 AM18220-01	59,480
MC KEAN, CHARLES M.	FAR-FIELD POTENTIALS IN BRAINSTEM MALDEVELOPMENT	NEUA	1R01 NS12424-01	58,847
MC NUTT, NEIL S.	CANCER CELL PERIPHERY: ULTRASTRUCTURE AND FUNCTION	PTHB	1R01 CA16482-01	38,970
MELMON, KENNETH L.	CLINICAL STUDY OF PHARMACOLOGY AND PHARMACOKINETICS	PTR	5P01 GM16496-07	471,599
MELMON, KENNETH L.	INTERACTION OF DRUGS WITH CELL RECEPTORS	PHRA	5R01 HL15851-02	128,625
MERZENICH, MICHAEL M.	STUDIES ON ORGANIZATION OF CENTRAL AUDITORY SYSTEM	CMS	2R01 NS10414-04	50,670
MERZENICH, MICHAEL M.	DEVELOPMENT OF AN ACOUSTIC PROSTHESIS	CMS	5R01 NS11804-02	55,627
MEYER, JAMES H.	STUDY OF ALIMENTARY DERANGEMENTS AFTER ULCER SURGERY	SGYA	1R01 AM18014-01	27,371
MICHAELI, DOV	THE MOLECULAR BASIS OF COLLAGEN-PLATELET INTERACTION	MBY	1R01 HL17525-01	84,498
MILLER, ARTHUR J.	ASPECTS OF RESPIRATORY CONTROL	HED	1R01 HD09841-01	28,255
MILLER, EARL R.	READING METHODS & IMAGE QUALITY VS X-RAY READING ERROR	RAD	5R01 GM19889-03	53,830
MILLER, MALCOLM R.	STUDIES ON THE PAPILLA BASILARIS	CMS	1R01 NS11838-01	54,036
MINES, ALLAN H.	RESPIRATION DURING ALTITUDE ACCLIMATIZATION	AFY	5R01 HL13841-14	51,624
MOORE, WESLEY S.	ASPIRIN IN CEREBRAL ISCHEMIA - JOINT STUDY	TEC	5R01 HL14335-02	42,401
MOORE, WESLEY S.	INFECTION IN PERIPHERAL VASCULAR PROSTHETIC GRAFTS	SGYB	5R01 HL16682-02	31,815
MORALES, MANUEL F.	FUNCTION OF CARDIAC AND SKELETAL MUSCLE	HEP	3P01 HL16683-01S1	59,911
MORRIS, R CURTIS, JR.	DISORDERS OF RENAL ACIDIFICATION	AMP	5P01 AM17664-03	129,725
NELMS, D CADE	T-CELL FUNCTION IN RECURRENT APHTHOUS STOMATITIS	DEN	1R23 DE04019-01	10,065
NEUBRUN, ERNEST	BIOSYNTHESIS OF POLYSACCHARIDES FROM ORAL STREPTOCOCCI	DEN	5R01 DE03108-05	77,153
NICHOLS, BARBARA A.	ROLES OF MONONUCLEAR PHAGOCYTES IN PATHOLOGIC STATES	PTHA	5R01 AI11639-02	35,774
O'CONNOR, G RICHARD	STUDY OF OCULAR TOXOPLASMOSES	TMP	5R01 EY01204-02	67,675
O'CONNOR, G RICHARD	INFLAMMATORY DISEASES OF THE EYE: CORE SUPPORT	VSN	1P01 EY01597-01	87,865
OCKNER, ROBERT K.	LIPID METABOLISM IN INTESTINE AND LIVER	GMA	5R01 AM13328-05	71,911
OKERLUND, MICHAEL D.	HUMAN THYROID CARCINOGENESIS	END	1R01 CA15623-01	30,282
ORTIZ DE MONTELLANO, P R	MECHANISM AND CONTROL OF STEROL BIOSYNTHESIS	MCHA	5R01 HL15476-03	46,157
OSTLER, HOWARD B.	OCULAR ZOONOSSES: THE CHLAMYDIAL INFECTIONS	BM	1R01 EY01205-01A1	44,328
PAVONE, BEN W.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05305-14	59,950
PETRAKIS, NICHOLAS L.	GENETIC EPIDEMIOLOGY AND NATURAL HISTORY OF CANCER	CAP	5P01 CA13556-04	528,885
PETZ, LAWRENCE D.	IMMUNE TISSUE INJURY—MECHANISM AND CLINICAL RELEVANCE	ALY	5R01 NS09568-05	3,510
PHILLIPS, THEODORE L.	THE THERAPEUTIC RATIO AND EXPERIMENTAL RADIOTHERAPY	RAD	1R01 CA17227-01	134,007
PIPER, WALTER N.	LEAD TOXICITY RELATED TO HEME BIOSYNTHESIS	TOX	1R01 ES01343-01	38,142
PRUSINER, STANLEY B.	SLOW BRAIN DISEASE: ASSAY AND PURIFICATION OF SCRAPIE	VR	1R01 NS11917-01A1	70,045
PRUSINER, STANLEY B.	REGULATION AND FUNCTION OF BRAIN-GLUTAMYL TRANSEPTIDASE	PC	1R01 NS12100-01	66,528
RALSTON, HENRY J, III.	SYNAPTIC ORGANIZATION IN SPINAL CORD AND THALAMUS	NEUB	5R01 NS11614-02	59,719
RAMACHANDRAN, JANAKIRAMAN	PITUITARY HORMONES IN NORMAL AND NEOPLASTIC GROWTH	END	1R01 CA16417-01	76,174
RECTOR, FLOYD C, JR.	REGULATION OF ELECTROLYTE, WATER AND ACID-BASE BALANCE	GMB	5R01 AM17676-02	29,110
ROBINSON, JOHN S.	HEMISPHERE INTEGRATION AND SPECIALIZATION	EXP	5R01 NS11779-02	25,855
ROSENAU, WERNER	LYMPHOTOXIN IN CELL-MEDIATED TUMOR IMMUNITY	IMB	3R01 CA07191-11S1	16,900
ROSENAU, WERNER	LYMPHOTOXIN IN CELL-MEDIATED TUMOR IMMUNITY	IMB	2R01 CA07191-12	87,877
ROTHMAN, STEPHEN S.	SECRETION OF PROTEINS AND IONS BY THE PANCREAS	PHY	5R01 AM16990-02	72,777
RUDNICK, ALBERT	SUPPORT FOR INTERNATIONAL CENTER FOR MEDICAL RESEARCH	SSS	2R07 AI10051-15	806,211
RUDNICK, ALBERT	STUDY OF ECOLOGY OF DENGUE VIRUSES IN MALAYSIA	TMP	5R22 AI11540-03	62,569
RUTTER, WILLIAM J.	GENE EXPRESSION AND REPLICATION IN EUKARYOTIC ORGANISMS	MBY	1R01 GM21830-01	174,211
SALVATIERRA, OSCAR	PATHOPHYSIOLOGY OF CLINICAL ORGAN TRANSPLANTATION	AMP	5P01 AM11290-09	246,298
SANTI, DANIEL V.	MECHANISM OF THYMIDYLATE SYNTHETASE	ET	5R01 CA14394-03	50,258
SCHACHTER, JULIUS	EYE DISEASE AND VENEREALLY TRANSMITTED CHLAMYDIAE	VR	5R01 AI10193-04	37,587
SCHACHTER, JULIUS	SEROTYPING OF CHLAMYDIA (BEDSONIA) ISOLATES	BM	5R01 AI11881-02	35,665

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
SCHACHTER, JULIUS.....	EPIDEMIOLOGY OF CERVICAL CANCER-CHLAMYDIAE AND HERPES.....	EDC	5R01 CA14427-03	92,456
SCHMID, RUDI.....	STUDIES OF BILE PIGMENT METABOLISM.....	GMA	5R01 AM11275-09	189,902
SCHMID, RUDI.....	INTESTINAL ABSORPTION OF HEMOGLOBIN IRON.....	HEM	5R01 AM17365-02	50,770
SCHMID, RUDI.....	INTERDISCIPLINARY LIVER RESEARCH PROGRAM.....	SSS	1P17 AM18520-01	668,022
SCHROCK, THEODORE R.....	STUDIES OF HEPATIC REGENERATION.....	SGYB	5R01 AM16979-02	39,914
SHAH, SHANTILAL N.....	DEVELOPMENTAL REGULATION OF BRAIN STEROL SYNTHESIS.....	MET	5R01 NS11670-02	32,495
SHAMES, DAVID M.....	RENAL HYPERTENSION DETECTION USING THE GAMMA VARIATE.....	RAD	1R01 HL18367-01	50,296
SHOHEI, STEPHEN B.....	MEMBRANE LIPID METABOLISM IN BLOOD CELLS.....	HEM	3R01 AM16095-03S1	456
SHOHEI, STEPHEN B.....	MEMBRANE LIPID METABOLISM IN BLOOD CELLS.....	HEM	2R01 AM16095-04	76,655
SHOHEI, STEPHEN B.....	IN VITRO CHARACTERIZATION OF HODGKIN'S DISEASE CELLS.....	PTHB	5R01 CA15182-02	78,637
SHOHEI, STEPHEN B.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17995-01	93,517
SIEGEL, ROBERT C.....	LYSYL OXIDASE MEDIATED COLLAGEN CROSS-LINKING.....	GMB	5R01 AM16424-02	28,484
SIEGEL, ROBERT C.....	PATHOGENESIS OF GENETIC COLLAGEN DISEASES.....	GMA	1R01 AM18237-01	51,101
SIITERI, PENTTI K.....	DYNAMICS OF ESTROGEN BIOSYNTHESIS.....	END	2R01 HD08692-02	113,652
SILVERMAN, SOL, JR.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17914-01	66,291
SINGER, THOMAS P.....	5TH INTERNATIONAL SYMPOSIUM ON FLAVINS AND FLAVOPROTEINS.....	NSS	1R13 GM21990-01	8,900
SINGER, THOMAS P.....	MEMBRANE-BOUND ENZYMES IN HEART AND OTHER TISSUES.....	HEP	5P01 HL16251-02	242,034
SIPERSTEIN, MARVIN D.....	CHOLESTEROL METABOLISM IN NORMAL AND MALIGNANT LIVER.....	MET	5R01 CA15979-02	151,722
SMOLIN, GILBERT.....	THE AFFERENT ARC OF CORNEAL IMMUNOLOGIC REACTIONS.....	VISA	5R01 EY01121-02	54,573
SPINELLI, JOSEPH S.....	ANIMAL RESOURCE IMPROVEMENTS.....	AR	1P06 RR00953-01	198,591
SPITLER, LYNN E.....	MODE OF ACTION OF TRANSFER FACTOR.....	ALY	5R01 AI10686-03	104,614
SPITLER, LYNN E.....	CELLULAR IMMUNITY IN MULTIPLE SCLEROSIS.....	IMB	5R01 NS12133-04	57,706
STARWEATHER, JOHN A.....	AN EXPANDABLE SYSTEM FOR COMPUTER-BASED LEARNING.....	BLR	5R01 LM01843-03	30,871
STEINBERG, ROY H.....	PIGMENT EPITHELIAL ION TRANSPORT AND RETINAL FUNCTION.....	VISB	1R01 EY01429-01	82,107
STITES, DANIEL P.....	STUDY OF HUMAN FETO-PLACENTAL-MATERNAL INTERACTION.....	IMB	2R01 HD03939-07	68,352
TALAL, NORMAN.....	SIGNIFICANCE OF ANTINUCLEIC ACID ANTIBODIES IN LUPUS.....	ALY	2R01 AM16140-04	61,902
TALAL, NORMAN.....	CANCER AND MACROGLOBULINEMIA.....	PTHB	5R01 CA15486-02	47,101
THALER, M MICHAEL.....	DEVELOPMENTAL ASPECTS OF HEPATOBIILIARY METABOLISM.....	HED	5R01 HD03148-08	93,336
TOMKINS, GORDON M.....	CONTROL OF GENE EXPRESSION IN MAMMALIAN CELLS.....	SSS	2P01 GM17239-06	279,949
TREVOR, ANTHONY J.....	PHARMACOLOGY OF PURIFIED BRAIN ACETYLCHOLINESTRATES.....	PHRA	5R01 NS10913-03	61,414
TRUNKLEY, DONALD D.....	MEASUREMENT OF CELL MEMBRANE TRANSPORT DURING SHOCK.....	SGYA	5R01 GM20633-03	74,742
WANG, AN-CHUAN.....	STRUCTURE, GENETICS, AND EVOLUTION OF IMMUNOGLOBULINS.....	ALY	5R01 AI09813-05	30,598
WATSON, JOHN A.....	EFFECTORS OF CHOLESTEROL SYNTHESIS.....	MET	5R01 HL16294-02	47,765
WEINER, RICHARD I.....	ROLE OF BRAIN MONAMINES IN GONADOTROPIN RELEASE.....	REB	5R01 HD08924-02	36,587
WHEELER, KENNETH T, JR.....	BRAIN TUMOR THERAPY: RADIATION, DNA DAMAGE & REPAIR.....	RAD	5R01 CA15203-02	64,266
WILLIAMS, JOHN A.....	ROLE OF CELL MEMBRANE IN HORMONE SECRETION AND ACTION.....	CBY	5R01 GM19998-03	54,423
WILSON, CHARLES B.....	PROGRAM FOR TREATMENT OF MALIGNANT BRAIN TUMORS.....	CAP	2P02 CA13525-04	546,380
WISSIG, STEVEN L.....	ULTRASTRUCTURAL STUDIES OF CAPILLARY PERMEABILITY.....	CBY	5R01 HL04512-16	56,289
WOLFF, MANFRED E.....	STUDIES ON RECEPTORS WITH SITE SPECIFIC STEROIDS.....	MCHA	2R01 AM14824-04	48,085
YANG, JEN T.....	OPTICAL ROTATORY POWER OF BIOPOLYMERS.....	BBCA	5R01 GM10880-16	61,730
YANG, JEN T.....	STEREOCHEMICAL MECHANISM OF SICKLING OF HEMOGLOBIN S.....	BBCB	1R01 HL18818-01	44,012
YATSU, FRANK M.....	ROLE OF ASPIRIN IN CEREBRAL ISCHEMIA.....	TEC	5R01 HL14286-03	13,840
YEAGER, CHARLES L.....	SUPPORT FOR SMALL COMPUTER FACILITY.....	COM	5R01 NS10471-03	65,610
ZACKHEIM, HERSCHEL S.....	EVALUATION OF TOPICAL NITROSOURES IN MYCOSIS FUNGOIDES.....	ET	5R01 CA14825-03	20,737
ZAKIM, DAVID.....	REGULATION OF MICROSOMAL ENZYMES BY PHOSPHOLIPIDS.....	PC	5R01 GM20316-02	41,739
ORGANIZATION TOTAL	239	26,498,225		
<b>UNIVERSITY OF THE PACIFIC ZIP CODE 94115</b>				
COLENBRANDER, AUGUST.....	NOMENCLATURE FOR OPHTHALMOLOGY.....	BCM	5R01 LM01654-03	66,032
EVERSOLE, LEWIS R.....	CLINICAL CANCER EDUCATION (DENTAL).....	CEC	1R25 CA17956-01	19,262
GUNNAR, RYGE.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05301-10	29,622
INESI, GIUSEPPE.....	CALCIUM ION AND CONTROL OF CARDIOVASCULAR FUNCTION.....	HEP	5P01 HL16607-02	132,806
MURPHY, ALEXANDER J.....	STUDIES ON THE ACTIVE SITES OF CONTRACTILE PROTEINS.....	BBCB	5R01 AM16445-02	39,151
NEWMAN, NANCY M.....	EVALUATION OF THE RETINAL NERVE FIBER LAYER.....	VISA	5R01 EY01249-02	52,958
ROBERTS, W EUGENE.....	CELL KINETICS OF ORTHODONTICALLY INDUCED OSTEOGENESIS.....	DEN	1R23 DE04241-01	13,300
ORGANIZATION TOTAL	7	353,131		
<b>WEST COAST CANCER FOUNDATION ZIP CODE 94120</b>				
VAETH, JEROME M.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	1P01 CA17063-01	168,618
VAETH, JEROME M.....	RESEARCH INTO THE PSYCHOSOCIAL ASPECTS OF CANCER CARE.....	CCG	1R18 CA17903-01	240,455

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator		Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>					
ORGANIZATION TOTAL	2	409,073			
<b>SAN JOSE</b>					
<b>SANTA CLARA VALLEY MEDICAL CENTER</b>		<b>ZIP CODE 95128</b>			
ANGELL, WILLIAM W		AORTIC VALVE GRAFTS FOR CARDIAC VALVE REPLACEMENT	SGYA	7R01 HL18014-01	119,342
COX, ROBERT S, JR		GENERAL RESEARCH SUPPORT GRANT	NSS	1S01 RR05768-01	29,210
ORGANIZATION TOTAL	2	148,552			
<b>SANTA BARBARA</b>					
<b>SANTA BARBARA BOTANIC GARDEN</b>		<b>ZIP CODE 93105</b>			
WALTERS, MARTA S		MEIOSIS: A REVISED SEQUENCE OF EVENTS IN PROPHASE	CBY	5R01 GM19272-02	29,393
ORGANIZATION TOTAL	1	29,393			
<b>SPEECH COMMUNICATIONS RESEARCH LABORATORY</b>		<b>ZIP CODE 93109</b>			
BROAD, DAVID J		MECHANICS AND VIBRATIONS OF PATHOLOGIC VOCAL FOLDS	CMS	5R01 NS11495-02	29,602
KOIKE, YASUO Y		ACOUSTIC MEASURES FOR DETECTING LARYNGEAL PATHOLOGY	CMS	5R01 NS08177-06	46,635
ORGANIZATION TOTAL	2	76,237			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA BARBARA</b>		<b>ZIP CODE 93106</b>			
BRUCE, THOMAS C		ORGANIC STUDIES AND THE MECHANISM OF ENZYME ACTION	BIO	2R01 AM09171-11	151,575
BUNTON, CLIFFORD A		MODELS FOR ENZYMIC PHOSPHORYLATION AND HYDROLYSIS	BIO	5R01 AM10742-09	42,220
CARBON, JOHN A		RELATION OF TRANSFER RNA STRUCTURE AND FUNCTION	PC	5R01 CA11034-07	82,221
CHAFFEE, ROWAND R		HEAT ACCLIMATION: A MODEL FOR O <sub>2</sub> SPARING THERAPY	AFY	1R01 AM18895-01	50,813
CLOPTON, BEN M		DEVELOPMENT OF NEURAL MECHANISMS IN HEARING	EXP	1R01 NS12571-01	37,316
DRINKWATER, BARBARA L		PHYSIOLOGICAL ADAPTATION OF WOMEN TO HEAT STRESS	SSS	5R01 ES00849-03	96,202
ENGLESBERG, ELLIS		THE HUMAN LYMPHOCYTE AND LYMPHOBLAST	GEN	1R01 CA18644-01	26,104
FISHER, STEVEN K		STUDIES ON THE DEVELOPING AND ADULT VISUAL SYSTEM	VIS	5R01 EY00888-04	24,635
GERIG, JOHN T		MAPPING OF ACTIVE SITES AND EFFECTIVE CHEMOTHERAPY	BBCB	2R01 CA11220-07	56,001
HOOKER, THOMAS M, JR		CONFORMATIONS OF BIOLOGICALLY IMPORTANT MOLECULES	BBCA	3R01 GM18092-03S1	7,268
JACOBS, GERALD H		STUDIES OF ALL-CONE VISUAL SYSTEMS	EXP	5R01 EY00105-06	43,559
JOHNSON, M BRUCE		DIVORCE: AN ECONOMIC APPROACH	POP	1R01 HD09076-01	17,642
KING, JACK L		SIMULATION AND ANALYSIS OF PROTEIN EVOLUTION	GEN	3R01 GM21283-01S1	1,050
LARIS, PHILIP C		EXTRINSIC FLUORESCENCE AND MEMBRANE POTENTIALS	PHY	5R01 HL16417-02	33,859
LEE, NANCY L		GENETIC CONTROL OF PROTEIN SYNTHESIS IN E. COLI	MBC	2R01 GM14652-09	64,665
ORIAS, EDUARDO		CONDITIONAL LETHAL MUTANTS OF TETRAHYMENA	GEN	2R01 GM19290-04	64,439
PARSONS, STANLEY M		FEEDBACK INHIBITION OF PRATP SYNTHETASE	BIO	5R01 GM20835-02	28,919
PHILLIPS, LAD		CYCLES IN FERTILITY, MORTALITY & ECONOMIC CONDITIONS	POP	5R01 HD05985-02	14,857
PURICH, DANIEL L		CAMP-STIMULATED PROTEIN KINASE: MECHANISM AND CONTROL	BIO	5R01 GM21091-02	35,682
RAVEN, PETER B		OZONE: PHYSIOLOGICAL AND PSYCHOPHYSIOLOGICAL EFFECTS	TOX	1R01 ES01143-01	121,686
SAMUEL, CHARLES E		MECHANISM OF INTERFERON ACTION	VR	1R01 AI12520-01	61,059
TABORSKY, GEORGE		SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07099-09	43,133
ORGANIZATION TOTAL	22	1,104,905			
<b>SANTA CRUZ</b>					
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA CRUZ</b>		<b>ZIP CODE 95060</b>			
BRIDGEMAN, BRUCE		TEMPORAL CODING AND PROCESSING IN MONKEY VISUAL CORTEX	VISB	1R01 EY01482-01A1	27,763
COTA-ROBLES, EUGENE H		BASIC RESEARCH PROGRAM	GRS	1S06 RR08132-01	127,174
DAVERN, CEDRIC		SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07135-05	20,965
DAVIS, WILLIAM J		NEURONAL CONTROL OF LOCOMOTION AND NEURONAL ONTOGENY	PHY	5R01 NS09050-05	80,068
DRAIZ, EDWARD A		STRUCTURE AND FUNCTION OF VISUAL PHOTORECEPTORS	BBCB	5R01 EY00175-06	58,369
DRAIZ, EDWARD A		STUDIES OF THE PREVENTION OF RETINAL ROD DEGENERATION	VISB	1R01 EY01521-01	107,276
FELDMAN, JERRY F		GENETIC ANALYSIS OF BIOLOGICAL CLOCK MECHANISM	GEN	7R01 GM22144-01	49,072
FINK, ANTHONY L		ENZYME CATALYZED REACTIONS AT SUB ZERO TEMPERATURES	BBCA	1R01 GM20555-01A1	45,810
KLIGER, DAVID S		INVESTIGATION OF THE BLEACHING STAGES OF RHODOPSIN	BBCA	2R01 EY00983-03	29,952
MC MURRY, JOHN E		SYNTHESIS OF UNSATURATED CARBONYL COMPOUNDS	MCHA	5R01 GM19959-02	38,636
MC MURRY, JOHN E		TOTAL SYNTHESIS OF CARDIAC AGLYCONES	MCHA	1R01 HL18118-01	60,076



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
NOLLER, HARRY F. JR.....	RIBOSOME STRUCTURE AND FUNCTION.....	MBC	5R01 GM17129-05	48,641
POODRY, CLIFTON A.....	GENETIC CONTROL OF DEVELOPMENT, USING DROSOPHILA.....	GEN	5R01 GM20401-03	39,788
WANG, HOWARD H.....	ROLE OF MEMBRANE PROTEINS IN LOCAL ANESTHETIC ACTION.....	BBCB	1R01 GM22242-01	55,128
ORGANIZATION TOTAL	14 788,718			
<b>SANTA MONICA</b>				
<b>RAND CORPORATION ZIP CODE 90406</b>				
ARESTY, JEROME.....	DECISION-AIDING SYSTEM IN LEUKEMIA CHEMOTHERAPY.....	SSS	5R01 CA14088-03	154,383
DE TRAY, DENNIS N.....	ECONOMIC-DEMOGRAPHIC FACTORS IN U.S. FERTILITY TRENDS.....	POP	1R01 HD09093-01	114,027
KING, WILLIAM S.....	MATHEMATICAL MODELS FOR STUDYING SICKLE CELL DISEASE.....	COM	3R01 HL16580-01S1	6,010
LINCOLN, THOMAS L.....	CELL KINETICS COMPUTER MODEL FOR LEUKEMIA CHEMOTHERAPY...	COM	3R01 CA12369-03S1	5,493
MORRISON, PETER A.....	DETERMINANTS AND IMPLICATIONS OF RETURN MIGRATION.....	POP	1R01 HD09142-01	55,213
NEWHOUSE, JOSEPH P.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05710-05	67,661
ORGANIZATION TOTAL	6 402,787			
<b>ST. JOHN'S HOSPITAL ZIP CODE 90404</b>				
WILSON, WILLIAM L.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12295-05	23,764
ORGANIZATION TOTAL	1 23,764			
<b>SELMA</b>				
<b>AMERICAN MOSQUITO CONTROL ASSOCIATION ZIP CODE 93662</b>				
SOLLERS-RIEDEL, HELEN.....	SYNTHESIS OF LITERATURE ON MOSQUITOES.....	BCM	2R01 LM01786-03	17,680
ORGANIZATION TOTAL	1 17,680			
<b>SEPULVEDA</b>				
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 91343</b>				
PIKO, LAJOS.....	INTERACTIONS OF ONCOGENIC VIRUSES WITH MOUSE EMBRYOS.....	VR	5R01 CA16155-02	41,476
ORGANIZATION TOTAL	1 41,476			
<b>STANFORD</b>				
<b>STANFORD UNIVERSITY ZIP CODE 94305</b>				
ARONOW, LEWIS.....	DRUG RESISTANCE IN MOUSE CELLS CULTURED IN VITRO.....	ET	5R01 CA05672-14	70,891
ASSAYKEEN, TATIANA A.....	INFLUENCE OF THE SYMPATHETIC NERVOUS SYSTEM ON RENIN.....	GMB	5R01 AM13548-06	37,979
BAGSHAW, MALCOLM A.....	STUDY OF EXTENDED RADIOTHERAPY FOR PROSTATIC NEOPLASMS.....	SRC	5R26 CA15455-02	102,966
BAGSHAW, MALCOLM A.....	PION RADIOTHERAPY: PRECLINICAL PHYSICS & RADIOBIOLOGY.....	RAD	1R01 CA16313-01	249,544
BALDWIN, ROBERT L.....	PHYSICAL STUDIES OF NUCLEIC ACIDS AND PROTEINS.....	BBCA	5R01 GM15988-15	96,882
BASCH, PAUL F.....	IN VITRO ANALYSIS OF VECTOR-PARASITE INTERACTIONS.....	TMP	5R22 AI10271-05	66,534
BAUM, DAVID.....	CONGENITAL HEART DISEASE AND ORGAN DEVELOPMENT.....	SGYB	1R01 HD08814-01	51,215
BAYLOR, DENIS A.....	NEURAL SIGNALLING IN THE RETINA.....	VISB	7R01 EY01543-01	24,049
BERG, PAUL.....	BASIC MECHANISMS IN VIRAL CARCINOGENESIS.....	VR	5R01 CA15513-02	77,401
BERG, PAUL.....	MECHANISMS AND REGULATION OF GENE EXPRESSION.....	BIO	5R01 GM13235-10	194,216
BERNFELD, MERTON R.....	TRANSFER RNA AND METAZOAN PROTEIN SYNTHESIS.....	PC	5R01 GM15086-08	44,937
BERNFELD, MERTON R.....	EXTRACELLULAR MATERIALS AND EMBRYONIC ORGAN FORMATION.....	CBY	5R01 HD06763-04	72,378
BLASCHKE, TERRENCE F.....	KINETICS OF DRUG-DRUG AND DRUG-DISEASE INTERACTIONS.....	TOX	1R01 GM22209-01	50,421
BROWN, J MARTIN.....	EXPERIMENTAL RADIOTHERAPY: BASIS AND MODIFICATION.....	RAD	5R01 CA15201-02	66,428
BRUTLAG, DOUGLAS L.....	ORGANIZATION OF HETEROCHROMATIC DNA SEQUENCES.....	GEN	1R01 GM21498-01	67,889
CAMPBELL, ALLAN M.....	GENETICS OF LAMBDA PROPHAGE.....	GEN	5R01 AI08573-08	95,928
CANN, HOWARD M.....	PRENATAL DETECTION OF SICKLE CELL ANEMIA.....	HED	5R01 HL15008-03	59,414
CAVALLI-SFORZA, LUIGI L.....	GENE DIFFUSION, NATURAL SELECTION AND DRIFT IN MAN.....	GEN	5R01 GM20467-03	86,407
CAVALLI-SFORZA, LUIGI L.....	GENETIC STUDY OF METABOLISM OF NEURAL TRANSMITTERS.....	GEN	5R01 NS10711-03	106,840
CHOW, KAO L.....	NEUROLOGY OF VISION AND LEARNING.....	NEUA	5R01 EY00691-15	45,133
CHRISTIANSEN, ROBERT O.....	BIOCHEMICAL ASPECTS OF MALE SEXUAL MATURATION.....	REB	5R01 HD06868-03	41,463
CLAYTON, DAVID A.....	MITOCHONDRIAL DNA IN MALIGNANT CELLS.....	PC	5R01 CA12312-05	55,926
CLAYTON, RAYMOND B.....	BIOCHEMISTRY OF STRESS IN MICE.....	END	5R01 AM16614-02	31,961
COHEN, STANLEY N.....	GENETIC CONTROL OF NONCHROMOSOMAL DRUG RESISTANCE.....	MBC	5R01 AI08619-08	56,057



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
COLLMAN, JAMES P.	MIXED-FUNCTION OXYGENASE MODELS	MCHB	2R01 GM17880-05	65,398
COOPER, ALLEN D.	REGULATION OF HEPATIC CHOLESTEROL SYNTHESIS	MET	1R01 AM18774-01	34,191
DAVIDSON, JULIAN M.	ROLE OF THE BRAIN IN MALE AND FEMALE REPRODUCTION	REB	2R01 HD00778-11A1	84,900
DAVIS, RONALD W.	PHYSICAL MAPPING OF POINT MUTATIONS IN DNA	BBCA	3R01 GM19177-03S1	1,480
DAVIS, RONALD W.	HIGHER CELL REGULATION: ISOLATED DNA SEGMENTS	GEN	1R01 GM21891-01	99,666
DEMENT, WILLIAM C.	SUDDEN INFANT DEATH SYNDROME AND SLEEP APNEA	HED	3R01 HD08339-01S1	6,241
DEMENT, WILLIAM C.	SUDDEN INFANT DEATH SYNDROME AND SLEEP APNEA	HED	5R01 HD08339-02	87,221
DEMENT, WILLIAM C.	THE PATHOLOGIES OF SLEEP—A CLINICAL PROGRAM	NSPB	5P01 NS10727-03	247,316
DIERASSI, CARL	MASS SPECTROMETRY IN ORGANIC AND BIOCHEMISTRY	MCHA	5R01 AM04257-15	81,688
DIERASSI, CARL	USE OF CMR SPECTRA IN IDENTIFYING STEROID STRUCTURES	MCHB	1R01 AM17896-01	31,654
DIERASSI, CARL	STUDY OF MARINE CHEMISTRY WITH EMPHASIS ON STEROIDS	MCHA	5R01 GM06840-17	164,458
DIERASSI, CARL	APPLICATIONS OF MAGNETIC CIRCULAR DICHROISM	BBCA	5R01 GM20276-02	45,644
EARLE, JOHN D.	CURE OF ADVANCED MOUSE LYMPHOMA BY TOTAL BODY X-RAY	RAD	5R01 CA13299-03	39,424
ENG, LAWRENCE F.	CENTRAL NERVOUS SYSTEM MEMBRANES AND ACIDIC PROTEINS	NEUB	5R01 NS11632-02	67,860
EPSTEIN, HENRY F.	THE MOLECULAR BASIS OF NEUROMUSCULAR DEVELOPMENT	MBY	5R01 HD07375-03	52,426
FAIR, WILLIAM R.	INVESTIGATION OF THE PROSTATIC ANTIBACTERIAL FACTOR	BM	5R01 AM17828-04	62,728
FAROUHAR, JOHN W.	BEHAVIORAL & EPIDEMIOLOGICAL STUDIES OF ATHEROSCLEROSIS	SRC	5P17 HL14174-05	425,641
FELDMAN, DAVID	THE ROLE OF RECEPTORS IN GLUCOCORTICOID ACTION	END	1R01 AM18156-01	42,871
FRIEDBERG, EROL C.	DNA REPAIR AND ITS RELATIONSHIP TO CARCINOGENESIS	PC	5R01 CA12428-05	38,661
GANESAN, ADAYAPALAM T.	DNA SYNTHESIS AND GENETIC RECOMBINATION IN B. SUBTILIS	PC	2R01 GM14108-10	91,131
GANZ, LEO	NEUROPSYCHOLOGY	VISB	5R01 EY01241-02	36,719
GETTING, PETER A.	COORDINATION OF REFLEX AND COMMAND BEHAVIORS	PHY	1R01 NS12529-01	46,145
GOULD, R. GORDON	CHOLESTEROL METABOLISM AND HYPOCHOLESTEROLEMIC DRUGS	MET	2R01 HL05360-16	112,086
GOULD, R. GORDON	BINDING OF PROTEINS TO LIPIDS AND LIPOID HORMONES	PC	5R01 HL08476-12	70,794
GRAY, GARY M.	CARBOHYDRATE DIGESTION BY THE INTESTINE	SSS	2R01 AM11270-09	44,430
GRAY, GARY M.	ROLE IN DIGESTION OF SMALL INTESTINAL OLIGOPEPTIDASES	SSS	2R01 AM15802-03	78,243
GREENBERG, PETER L.	GRANULOPOIESIS IN MALIGNANT AND BENIGN HUMAN DISEASES	HEM	2R01 CA13141-04	66,742
GRUMET, FRANK C.	MECHANISMS OF HISTOCOMPATIBILITY-LINKED IR GENES	IMB	5R01 A11074-03	52,937
HAHN, GEORGE M.	MODIFICATION OF RADIATION RESPONSE IN VITRO	RAD	5R01 CA04542-17	66,259
HAHN, GEORGE M.	CHEMOTHERAPY: CYTOTOXICITY, REPAIR AND ITS INHIBITION	ET	5R01 CA15769-02	51,545
HANAWALT, PHILIP C.	REPLICATION AND TRANSCRIPTION OF GENETIC MATERIAL	BIO	5R01 GM09901-14	115,723
HANAWALT, PHILIP C.	DNA REPAIR IN ESCHERICHIA COLI AND BACILLUS SUBTILIS	GEN	2R01 GM19010-04	64,695
HARRISON, DONALD C.	PHARMACOLOGIC AND PHYSIOLOGIC BASIS OF CARDIAC THERAPY	HEP	5P01 HL15833-02	254,558
HAYES, WILSON C.	MECHANICS OF NORMAL, ARTHRITIC AND PROSTHETIC KNEES	AFY	1R01 AM18376-01	58,359
HAYFLICK, LEONARD	BIOLOGY OF T-MYCOPLASMAS: POTENTIAL HUMAN PATHOGENS	BM	5R01 A111805-02	47,077
HELLER, H. CRAIG	CNS REGULATION OF BODY TEMPERATURE IN MAMMALS	PHY	2R01 NS10367-04	57,697
HERZENBERG, LEONARD A.	GENETIC STUDIES WITH MAMMALIAN CELLS	SSS	5R01 CA04681-16	122,983
HERZENBERG, LEONARD A.	CLINICAL AND BIOLOGICAL USES OF AUTOMATED CELL-SORTING	SSS	5R01 GM17367-06	397,208
HERZENBERG, LEONARD A.	FETAL-MATERNAL IMMUNOLOGICAL INTERACTIONS	IMB	5R01 HD01287-13	80,746
HODGSON, KEITH O.	STRUCTURE OF TUMOR REGULATORY PROTEINS	BBCB	1R01 CA16748-01	56,820
HOGNESS, DAVID S.	THE ARRANGEMENT OF INFORMATION IN ANIMAL CHROMOSOMES	GEN	5R01 GM20158-03	110,472
HOLM, RICHARD H.	STUDIES OF METAL COMPLEXES OF SCHIFF BASES	MCHB	7R01 GM22351-01	42,186
HOLM, RICHARD H.	BIOLOGICALLY RELATED IRON-SULFUR CHEMISTRY	MCHB	7R01 GM22352-01	77,898
HOLMAN, HALSTED R.	AUTOIMMUNE TISSUE DAMAGE AND ITS POTENTIAL REVERSAL	IMB	2R01 AM05425-13	63,075
HUDSON, BRUCE S.	ELECTRONIC AND BUOYANT PROPERTIES OF ETHIDIUM AND DNA	BBCA	5R01 CA15461-02	37,378
HUDSON, BRUCE S.	ELECTRONIC STRUCTURE OF THE VISUAL POLYENES	BBCA	1R01 EY01518-01	31,110
HUDSON, BRUCE S.	ELECTRONIC AND RAMAN SPECTRAL STUDIES OF MEMBRANES	BBCB	5R01 GM21149-02	29,106
INKELES, ALEX	SUBJECTIVE EXPERIENCE AND NATALITY IN SIX COUNTRIES	POP	1R01 HD08950-01	50,078
JAMISON, REX L.	MICROPUNCTURE STUDIES OF THE MAMMALIAN RENAL MEDULLA	PHY	1R01 AM18077-04	86,826
JARDETZKY, OLEG	NMR STUDY OF THE LAC-REPRESSOR PROTEIN	BBCB	5R01 GM18098-05	106,255
JARDETZKY, OLEG	HIGH-FREQUENCY NMR BIOTECHNOLOGY RESOURCE	BBCB	3P07 RR00711-02S1	14,186
JARDETZKY, OLEG	HIGH-FREQUENCY NMR BIOTECHNOLOGY RESOURCE	BBCB	5P07 RR00711-03	104,010
JOHNSON, WILLIAM S.	STEROID AND TERPENOID SYNTHESIS AND RELATED STUDIES	MCHA	2R01 AM03787-16	133,675
KAISER, ARMIN D.	BIOCHEMICAL GENETIC STUDIES OF VIRUS MULTIPLICATION	GEN	5R01 A104509-14	107,254
KALLMAN, ROBERT F.	EXPERIMENTAL RADIOTHERAPY-CELLULAR RESPONSES IN VIVO	RAD	5R01 CA03353-18	66,096
KALMAN, SUMNER M.	REGULATORY ROLE OF ESTROGEN IN TUMORS	ET	5R01 CA12513-05	48,355
KALMAN, SUMNER M.	DRUG DOSAGE IN MAN—INITIAL STUDIES WITH DIGOXIN	PHRA	5R01 HL13618-05	43,688
KAPLAN, ERNEST N.	PROLONGED SURVIVAL OF CULTURED-TISSUE SKIN GRAFTS	SGVA	5R01 AM17199-02	46,232
KAPLAN, HENRY S.	BIOLOGICAL ASPECTS OF CARCINOGENESIS BY RADIATION	PTHB	5R01 CA03352-19	137,972
KAPLAN, HENRY S.	CANCER CENTER SUPPORT GRANT (SPECIALIZED)	CAP	5P02 CA05838-14	1,918,961

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
KAPLAN, HENRY S.	RADIOBIOLOGY/ONCOLOGY RESEARCH PROGRAM.	CAP	5P01 CA10372-08	724,964
KARASEK, MARVIN A.	METABOLISM OF PYRIMIDINE NUCLEOTIDES IN SKIN.	GMA	5R01 AM10332-10	67,308
KARASEK, MARVIN A.	METABOLIC CONTROL OF EPIDERMAL CELL GROWTH.	GMA	5R01 AM14121-06	84,281
KARLIN, SAMUEL.	STOCHASTIC MODELS IN MEDICINE AND BIOLOGY.	COM	5R01 GM10452-12	137,314
KEDES, LAURENCE H.	EMBRYONIC CHROMOSOMAL PROTEINS AND THEIR RNA TEMPLATES.	CBY	3R01 GM17995-03S1	9,173
KENNEDY, DONALD.	ANALYSIS OF INTERNEURONAL NETWORKS.	PHY	5R01 NS02944-15	59,791
KORN, DAVID.	DNA POLYMERASES IN NORMAL AND NEOPLASTIC HUMAN CELLS.	PC	5R01 CA14835-03	97,496
KORN, DAVID.	CONFERENCE ON EUKARYOTIC DNA POLYMERASES.	NSS	1R13 CA17721-01	25,942
KORNBERG, ARTHUR.	BIOSYNTHESIS OF DNA MEMBRANES AND VIRUSES.	VR	5R01 GM07581-14	229,203
KRISS, JOSEPH P.	STUDIES ON LONG-ACTING THYROID STIMULATOR.	END	5R01 AM07642-12	64,184
LEDERBERG, ESTHER M.	GENE EXPRESSION AND DNA STRUCTURE OF R-PLASMIDS.	MBG	1R01 AI11520-01A1	43,403
LEDERBERG, JOSHUA.	GENETICS OF BACTERIA.	GEN	5R01 CA16896-17	93,435
LEDERBERG, JOSHUA.	HUMAN GENETIC DISEASE AND POLYMORPHISMS.	SSS	3P01 GM20832-01A1S1	50,483
LEDERBERG, JOSHUA.	SUPPORT FOR COMPUTING FACILITY.	COM	5P07 RR00785-02	619,435
LEHMAN, I. ROBERT.	DNA REPLICATION IN NORMAL AND VIRUS-INFECTED CELLS.	PC	2R01 GM06196-16	137,274
LEVINE, SEYMOUR.	DEVELOPMENTAL AND BEHAVIORAL NEUROENDOCRINOLOGY.	HODG	5P01 HD02881-08	185,342
LUCAS, ZOLTAN J.	REGULATORY CONTROL OF LYMPHOCYTE DIFFERENTIATION.	HEM	5R01 AM12458-08	49,908
LUCAS, ZOLTAN J.	ANALYSIS OF HOST RESPONSE TO TUMOR ONCOGENESIS.	IMB	5R01 CA14777-02	89,510
LUETSCHER, JOHN A.	SECRETION AND EFFECTS OF ADRENAL HORMONES.	GMB	5R01 HL13917-16	89,873
LUETSCHER, JOHN A.	'BIG RENIN': PROPERTIES, PHYSIOLOGIC/DIAGNOSTIC ROLE.	CVB	1R01 HL17364-01	14,877
MACCOBY, ELEANOR E.	BIOCHEMICAL FACTORS IN BEHAVIORAL SEX DIFFERENCES.	DBR	5R01 HD07071-02	32,080
MACCOBY, ELEANOR E.	BASIC PROCESSES IN COGNITIVE AND SOCIAL DEVELOPMENT.	HDMC	1P01 HD09814-01	218,157
MACOVSKI, ALBERT.	IMPROVED DIAGNOSIS THROUGH SELECTIVE MATERIAL IMAGING.	RAD	1R01 GM20984-01A1	41,938
MACOVSKI, ALBERT.	COMPUTERIZED X-RAY TOMOGRAPHY OF THE BODY.	RAD	1R01 GM21627-01	63,455
MAFFLY, ROY H.	MICROTUBULES AND FILAMENTS IN ACTION OF VASOPRESSIN.	GMB	5R01 AM16327-03	50,005
MANSOUR, TAG E.	CHEMICAL AGENTS AND HEART GLYCOLYTIC ENZYMES.	PC	9R01 HL17976-15	87,410
MARMOR, MICHAEL F.	INTERACTION BETWEEN RETINA AND PIGMENT EPITHELIUM.	VISA	1R01 EY01678-01	87,870
MATHERS, LAWRENCE H.	DEVELOPMENT AND PLASTICITY IN A VISUAL SYSTEM.	NEUA	5R01 NS11669-02	42,370
MAURICE, DAVID M.	CONTROL OF CORNEAL HYDRATION.	PHY	2R01 EY00431-07	204,353
MAURICE, DAVID M.	TRANSPORT PROCESSES ACROSS THE CORNEAL EPITHELIUM.	PHY	2R01 EY00915-04	68,724
MC DEVITT, HUGH O.	GENETIC CONTROL OF THE IMMUNE RESPONSE.	SSS	5R01 AI07757-09	168,932
MC DEVITT, HUGH O.	HUMORAL, CELLULAR & GENETIC MECHANISMS IN AUTOIMMUNITY.	SSS	5P01 AI11313-03	209,095
MC DEVITT, HUGH O.	DEVELOPMENTAL ANALYSIS OF THE MURINE T/T ALLELE MUTANTS.	HED	1R01 HD09410-01	86,778
MEINDL, JAMES D.	CENTER FOR INTEGRATED ELECTRONICS IN MEDICINE.	SSS	5P01 GM17940-05	658,875
MERIGAN, THOMAS C.	CHEMISTRY OF THE INTERFERON MOLECULE.	VR	5R01 AI05629-13	91,174
MERIGAN, THOMAS C.	EFFECT OF INTERFERON THERAPY ON NON-HODGKINS LYMPHOMA.	ET	1R01 CA16857-01	261,410
MILLER, RUPERT G. JR.	ADAPTATION OF NEW STATISTICAL IDEAS FOR MEDICINE.	COM	3R01 GM21215-01S1	16,192
MILLER, WARREN B.	PSYCHOLOGICAL FACTORS AND FERTILITY BEHAVIOR IN WOMEN.	POP	2R01 HD06266-03	45,990
MILLER, WARREN B.	PSYCHOLOGICAL ASPECTS OF FERTILITY TERMINATION.	POP	1R01 HD08621-01	98,877
MILLER, WILLIAM F.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.	NSS	5S05 RR70005-10	73,069
MOSHER, HARRY S.	AMPHIBIAN TOXINS, CHEMISTRY AND PHARMACOLOGY.	PHRA	5R01 GM16031-14	51,515
MOSHER, HARRY S.	DEVELOPMENT OF CHIRAL HYDRIDE TRANSFER AGENTS.	MCHB	2R01 GM19554-03	50,215
NICHOLLS, JOHN G.	INTEGRATION AND REGENERATION IN THE NERVOUS SYSTEM.	NEUB	5R01 NS11544-02	66,675
NORTHWAY, WILLIAM H. JR.	EFFECT OF PULMONARY OXYGEN TOXICITY ON THE NEWBORN.	CVA	2R01 HL14663-04	70,325
PAYNE, ROSE O.	LEUKOCYTE ANTIGENS AND ANTIBODIES.	IMB	2R01 HL03365-18	106,906
PERKEL, DONALD H.	STOCHASTIC MODELS OF NEURAL SYSTEMS.	COM	2R01 NS09744-06	92,401
PERKINS, DAVID D.	GENETICS OF NEUROSPORA.	GEN	5R01 AI01462-19	106,247
PINCUS, THEODORE P.	MOUSE LEUKEMIA AND AUTOIMMUNITY: HOST VIRUS RELATIONS.	GEN	7R01 CA18707-01	63,401
PITTENDRIGH, COLIN S.	CIRCADIAN ORGANIZATION AND THE AGING PROCESS.	PHY	1R01 HD09091-01	60,261
PRINCE, DAVID A.	CELLULAR MECHANISMS IN FOCAL EPILEPTOGENESIS.	NEUA	2R01 NS06477-10	78,759
PRINCE, DAVID A.	EPILEPSY RESEARCH PROGRAM.	NSPB	1P01 NS12151-01	316,849
RAFFEL, SIDNEY.	MECHANISMS IN THE ACQUIRED CELLULAR IMMUNE RESPONSE.	ALY	5R01 AI01178-19	70,075
RAFFEL, SIDNEY.	IMMUNOLOGIC RESPONSES IN DEMYELINATING DISEASES.	IMB	2R01 NS05513-10A1	36,060
RATHER, LELLAND J.	HISTORICAL STUDY OF HISTOGENESIS OF NEOPLASMS.	HLS	5R01 LM02058-02	10,784
RAUCH, HELENE C.	IMMUNOLOGIC RESPONSES IN DEMYELINATING DISEASES.	IMB	3R01 NS05513-09S1	6,245
REAVEN, GERALD M.	LIPIDIA-CARBOHYDRATE AND GLYCERIDE METABOLISM.	MET	5R01 HL08506-12	78,256
RICH, CLAYTON.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.	CLR	2M01 RR00070-13	543,219
RICH, CLAYTON.	GENERAL RESEARCH SUPPORT GRANT.	NSS	5S01 RR05353-14	255,345
ROBERTSON, CHANNING R.	MODELING OF RENAL SODIUM AND WATER TRANSPORT.	GMB	5R01 HL14945-03	32,994
ROBINSON, WILLIAM S.	BIOCHEMICAL EVENTS AFTER RNA TUMOR VIRUS INFECTION.	VR	5R01 CA10467-08	113,378

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
ROSENBERG, LEON T.	IMMUNOLOGIC AND GENETIC STUDIES OF SERUM COMPLEMENT.....	ALY	5R01 AI09341-05	53,786
ROSENTHAL, A RALPH	COMPUTER MAPPING OF THE OPTIC NERVE HEAD.....	VISA	5R01 EY01248-02	31,624
SAKITT, BARBARA	PROBLEMS IN HUMAN VISION.....	VISB	5R01 EY01336-02	32,987
SCHIMKE, ROBERT T.	ENZYME SYNTHESIS AND DEGRADATION IN METABOLIC CONTROL.....	BIO	5R01 GM14931-09	131,826
SCHRIER, STANLEY L.	METABOLISM OF ERYTHROCYTE STROMA.....	HEM	5R01 AM13682-16	87,099
SCHULMAN, IRVING	HEMOSTASIS AND HEMORRHAGIC DISEASE IN CHILDREN.....	HEM	5R01 HD07300-03	84,516
SCHWARTZ, HERBERT C.	EXTRAUTERINE GROWTH AND ADAPTATION.....	HDPB	5P01 HD02147-09	211,285
SHOOTER, ERIC M.	MOLECULAR NEUROBIOLOGY—PROTEINS IN THE NERVOUS SYSTEM.....	PC	5R01 NS04270-13	128,566
SHUMWAY, NORMAN E.	ORTHOTOPIC HEART TRANSPLANTATION.....	SGYB	5R01 HL08696-11	152,182
SIMMONS, F BLAIR	DEVELOPMENT OF A COCHLEAR PROSTHESIS.....	CMS	5R01 NS10532-03	157,554
SIMMONS, F BLAIR	FIELD TEST OF NEWBORN HEARING TESTING DEVICE.....	CMS	1R01 NS12326-01	131,008
SIMONI, ROBERT D.	STUDIES ON MEMBRANE FUNCTION AND CELLULAR ENERGETICS.....	MBC	2R01 GM18539-04	76,095
SIMONI, ROBERT D.	REGULATION OF CHOLESTEROL METABOLISM.....	MET	1R01 HL18219-01	33,318
SMITH, KENDRIC C.	REPAIR OF RADIATION-INDUCED LESIONS IN DNA.....	RAD	5R01 CA02896-19	79,433
SMITH, KENDRIC C.	MOLECULAR BASIS OF RADIATION LETHALITY.....	RAD	5R01 CA06437-14	60,153
SMITH, MARION E.	BIOSYNTHESIS OF LIPIDS IN EXPERIMENTAL DEMYELINATION.....	NEUB	2R01 NS02785-15	62,738
STAMEY, THOMAS A.	URINARY INFECTIONS: PORTAL OF ENTRY.....	BM	5R01 AI09366-06	77,673
STARK, GEORGE R.	ASPECTS OF CONTROL IN MAMMALIAN GENE EXPRESSION.....	SSS	1R01 CA17287-01	175,610
STARK, GEORGE R.	MECHANISMS OF CATALYSIS AND ALLOSTERIC CONTROL.....	BIO	3R01 GM11788-11S1	10,003
STEELE, CHARLES R.	MECHANICS OF THE ORGAN OF CORTI.....	CMS	1R01 NS12086-01	41,899
STINSON, EDWARD	CLINICAL EVALUATION OF HEART TRANSPLANTATION.....	HEP	5P01 HL13108-06	704,442
STOCKDALE, FRANK E.	STUDIES OF CELL DIFFERENTIATION.....	MBY	5R01 AM16466-02	80,642
STOCKDALE, FRANK E.	DNA POLYMERASE IN HUMAN LEUKEMIA.....	MBY	1R01 CA15939-01	42,686
STOCKER, BRUCE A.	GENETICS AND PHYSIOLOGY OF SALMONELLA TYPHIMURIUM.....	SSS	5R01 AI07168-10	79,618
STROBER, SAMUEL	MATURATION OF B LYMPHOCYTES IN RATS.....	ALY	2R01 AI10293-04	73,445
STROBER, SAMUEL	ALTERATIONS OF T CELLS IN LYMPHOPROLIFERATIVE DISEASE.....	IMB	1R01 CA17004-01	53,288
SUNSHINE, PHILIP	REGULATION OF ENZYME ACTION DURING DEVELOPMENT.....	MET	5R01 HD00391-16	66,216
SUNSHINE, PHILIP	CLINICAL RESEARCH CENTER FOR PREMATURE INFANTS.....	CLR	2M01 RR00081-13	465,025
SUSSMAN, HOWARD H.	ECTOPIC PLACENTAL PROTEINS IN HUMAN CANCER.....	PTHB	2R01 CA13533-04	76,463
TAUBE, HENRY	BIOCHEMICALLY SIGNIFICANT MOLECULES AS LIGANDS.....	MCHB	5R01 GM13638-10	66,562
TAUBE, HENRY	THE REDUCTION OF DINITROGEN IN AQUEOUS SOLUTION.....	MCHB	1R01 GM22045-01	49,219
TSUBOI, KENNETH K.	PYRIMIDINE SYNTHESIS AND CELLULAR PROLIFERATION IN COLON.....	SRC	5R26 CA14917-03	66,388
TUNE, BRUCE M.	RENAL TRANSPORT AND INTERACTION OF ORGANIC ACID DRUGS.....	GMB	5R01 AM17647-02	37,212
VAN TAMELEN, EUGENE E.	SYNTHESIS OF ALKALOIDS AND TERPENOIDES.....	MCHA	5R01 GM10421-13	67,877
VAN TAMELEN, EUGENE E.	TOTAL SYNTHESIS OF RIBONUCLEIC ACIDS.....	MCHA	5R01 GM20677-02	62,879
VOSTI, KENNETH L.	BACTERIOLOGY AND SEROLOGY OF PYELONEPHRITIS.....	BM	5R01 AI03638-15	39,512
VOSTI, KENNETH L.	EXPERIMENTAL POSTSTREPTOCOCCAL DISEASE.....	BM	5R01 AI06964-10	41,279
WEINER, MICHAEL W.	EFFECTS OF DIURETICS AND SODIUM ON RENAL METABOLISM.....	GMB	1R01 AM18602-01	30,056
WEISSBLUTH, MITCHEL	STRUCTURAL STUDIES OF BIOMOLECULES BY EXAFS METHOD.....	BBCB	1R01 AM17577-01	40,445
WEISSMAN, IRVING L.	ROLE OF THE THYMUS IN IMMUNOLOGICAL DEVELOPMENT.....	IMB	2R01 AI09072-07	124,950
WESSLELS, NORMAN K.	MECHANISMS OF ORGAN DEVELOPMENT.....	MBY	2R01 HD04708-06	104,171
WIDROW, BERNARD	FETAL ELECTROCARDIOGRAPHY.....	CYB	1R01 HL18307-01	44,402
WILKINSON, DAVID I.	CONTROL OF EPIDERMAL CELL HOMEOSTASIS.....	MBY	2R01 AM15107-04A1	86,073
WILSON, LESLIE	DRUG INTERACTIONS WITH BRAIN MICROTUBULE PROTEINS.....	CBY	5R01 NS09335-05	31,201
WOLF, ARTHUR P.	FERTILITY AND THE FAMILY IN RURAL TAIWAN, 1905-1945.....	POP	1R01 HD08750-01	48,691
WOODWARD, DOW O.	GENE-ENZYME RELATIONSHIPS IN NEUROSPORA.....	GEN	5R01 GM10067-13	54,111
YANOFSKY, CHARLES	GENETIC/BIOCHEMICAL STUDY OF TRYPTOPHAN SYNTHETASE.....	MBC	3R01 GM09738-13S1	16,346
ZATZ, LESLIE M.	EVALUATION OF ULTRASONIC CAMERA AS A DIAGNOSTIC TOOL.....	RAD	5R01 GM20774-02	29,633
ORGANIZATION TOTAL	192	20,951,989		
<b>STOCKTON</b>				
<b>UNIVERSITY OF THE PACIFIC ZIP CODE 95204</b>				
POHLMAN, EDWARD W.	PSYCHOLOGICAL EFFECTS OF VOLUNTARY VASECTOMY.....	POP	5R01 HD06272-03	40,399
ORGANIZATION TOTAL	1	40,399		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CALIFORNIA—Continued</b>				
<b>TORRANCE</b>				
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL		ZIP CODE 90509		
BARAJAS, LUCIANO	ELECTRON MICROSCOPY OF THE JUXTAGLOMERULAR APPARATUS	PTHA	7R01 HL18340-01	46,347
BEALL, GILDON N.	MECHANISMS OF THYROID STIMULATION IN GRAVES' DISEASE	IMB	1R01 AM18316-01	54,712
BENFIELD, JOHN R.	PLANNING FOR CANCER SUPPORT GRANT	SRC	1P01 CA15750-01	48,761
BENFIELD, JOHN R.	LUNG CANCER MODEL FOR SURGICAL RESEARCH	SGYA	5R01 CA16201-02	64,850
BENNETT, CLEAVES M.	PATHOPHYSIOLOGY OF EXPERIMENTAL IMMUNOLOGIC NEPHRITIS	PTHA	5R01 AM16565-03	35,705
BRAY, GEORGE A.	CLINICAL AND EXPERIMENTAL STUDY OF OBESITY	MET	5R01 AM15165-05	56,421
BRAY, GEORGE A.	LONG TERM CONTROL OF BODY WEIGHT	MET	1R01 AM18186-01	30,125
BRAZIER, MARY A.	ELECTROPHYSIOLOGICAL STUDIES OF THE EPILEPTIC BRAIN	NEUA	5R01 NS11379-03	115,177
BYFIELD, JOHN E.	IN VITRO ASSAY OF CHEMICAL RADIOSENSITIZATION	RAD	5R01 CA12691-03	59,278
BYFIELD, JOHN E.	IMMUNITY IN CURE BY X-RAY THERAPY OF CERVICAL CANCER	RAD	5R01 CA13827-03	54,058
BYFIELD, PATRICIA E.	CELLULAR IMMUNITY & THYMIC RADIATION IN HUMAN CANCERS	RAD	5R01 CA15054-02	65,068
DAVIDSON, WARREN D.	GRANULOCYTE FUNCTION AND METABOLISM IN UREMIA	PTHA	5R01 HL14978-03	37,804
EFFROS, RICHARD M.	RED CELL DEFORMABILITY AND FLOW THROUGH ORGANS	CVA	7R01 HL18005-01	31,241
FINKLESTEIN, JERRY Z.	CHILDREN'S CANCER STUDY GROUP A	CCI	2R10 CA14560-02	50,037
FINKLESTEIN, JERRY Z.	A MURINE MODEL FOR NEUROBLASTOMA CHEMOTHERAPY IN MAN	ET	5R01 CA14658-03	55,669
FIREMARK, HUGH M.	MELATONIN TRANSPORT IN THE CENTRAL NERVOUS SYSTEM	NEUB	1R01 NS12089-01	41,095
FISHER, DELBERT A.	THYROID FUNCTION IN THE FETUS AND NEWBORN	HED	2R01 HD04270-07	112,926
FISHER, DELBERT A.	VASOPRESSIN PHYSIOLOGY IN THE FETUS AND NEWBORN	GMB	2R01 HD06335-03A1	56,307
GUZE, LUCIEN B.	ENDOTOXIN: FATTY ACID ANALYSIS	BM	1R01 AI12343-01	33,651
HEINER, DOUGLAS C.	PERINATAL RECOGNITION AND MANAGEMENT OF ALLERGY	IMB	1R01 HD09327-01	66,658
JURATSCH, CRAIG E.	PULMONARY HYPERTENSION AND VENTILATION PATHOPHYSIOLOGY	YIP	1R23 HL18371-01	42,227
KATTOLOVE, HERMAN E.	PLATELET FUNCTION AND ADENINE NUCLEOTIDE METABOLISM	HEM	3R01 HL14344-03S1	13,874
LAKS, MICHAEL M.	HEMODYNAMICS AND HEART STRUCTURE-VENTRICULAR OVERLOAD	CVB	2R01 HL14717-03A1	78,411
MONTGOMERIE, JOHN Z.	STUDY OF HEMATOGENOUS CANDIDA ALBICANS ENDOPHTHALMITIS	BM	5R01 EY01066-03	47,380
MORIN, ROBERT J.	PLATELET FUNCTION AND ADENINE NUCLEOTIDE METABOLISM	HEM	2R01 HL14344-04	49,065
PILCH, YOSEF H.	IMMUNOTHERAPY OF CANCER WITH LYMPHOID EXTRACTS	IMB	5R01 CA15372-02	98,419
PILCH, YOSEF H.	IMMUNOTHERAPY OF COLORECTAL CANCER WITH 'IMMUNE' RNA	SRC	1R26 CA18086-01	161,491
PILCH, YOSEF H.	MECHANISM OF ACTION OF ANTITUMOR 'IMMUNE' RNA	IMB	7R01 CA18321-01	44,033
RIMOIN, DAVID L.	GENETICS AND PATHOGENESIS OF THE CHONDRODYSSTROPHIES	GMA	3R01 HD05624-04S1	9,115
RIMOIN, DAVID L.	GENETICS AND PATHOGENESIS OF THE CHONDRODYSSTROPHIES	GMA	2R01 HD05624-05	60,544
SAMLOFF, I MICHAEL	PEPSINOGEN POLYMORPHISM IN MAN	GMA	5R01 AM13233-07	67,995
SHOME, BASUDEV	HUMAN GONADOTROPINS: CHEMICAL STRUCTURE, IMMUNOBIOLOGY	REB	5R01 AM16748-02	44,535
SPERLING, MARK A.	GLUCAGON PHYSIOLOGY IN THE FETUS, NEWBORN, AND CHILD	MET	5R01 HD07087-03	45,468
SWANSON, WILLIAM H.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00425-07	616,352
SWANSON, WILLIAM H.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05551-13	173,487
TANAKA, KOICHI R.	METABOLIC AND BIOCHEMICAL STUDIES OF BLOOD CELLS	HEM	5R01 AM14898-13	52,311
WEICHSEL, MORTON E, JR.	HORMONAL REGULATION OF BRAIN PYRIMIDINE BIOSYNTHESIS	END	7R01 HD09277-01	32,440
ZAMBONI, LUCIANO	IN VITRO MATURATION AND FERTILIZATION OF PRIMATE OVA	REB	3R01 HD05725-03S1	5,247
ZAMBONI, LUCIANO	FOLLICULOGENESIS IN FETAL AND ADULT MAMMALIAN OVARIES	REB	1R01 HD09011-01	45,657
ORGANIZATION TOTAL	39	2,803,941		
STATE TOTAL	1,769	162,574,820		
<b>COLORADO</b>				
<b>BOULDER</b>				
UNIVERSITY OF COLORADO		ZIP CODE 80302		
BERG, HOWARD C.	PHOTOPHYSIOLOGY IN A BACTERIUM CONTAINING RHODOPSIN	MBC	5R01 EY01263-02	29,406
BONNEVILLE, MARY A.	BIOSYNTHESIS OF SPECIALIZED CELL SURFACES	CBY	5R01 GM18267-05	39,600
CARUTHERS, MARVIN H.	STUDIES ON DNA REGULATORY REGIONS OF CHROMOSOMES	SSS	5R01 GM21120-02	67,031
CARUTHERS, MARVIN H.	STUDIES WITH THE OPERATOR OF THE LACTOSE OPERON	BBCA	1R01 GM21644-01	17,120
CRISTOL, STANLEY J.	SYNTHESIS AND REACTIONS OF ALKYLATING AGENTS	MCHA	5R01 CA13199-04	48,105
DUBIN, MARK W.	RECEPTIVE FIELD ORGANIZATION IN THE VISUAL SYSTEM	VIS	5R01 EY00998-03	43,981
FALL, R RAY	REGULATION OF LIPID METABOLISM	PC	5R01 HL16628-02	40,941



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>COLORADO—Continued</b>				
FIFKOVA, EVA .....	VISUAL DEPRIVATION AND SYNAPSES OF VISUAL CENTERS.....	VISB	1R01 EY01500-01	46,415
GILL, STANLEY J. ....	ENTROPY AND ENTHALPY CHANGES IN ABNORMAL HEMOGLOBINS.....	BBCA	1R01 HL17472-01	31,097
GOLD, LAWRENCE M. ....	REGULATION OF BACTERIOPHAGE T4 GENE EXPRESSION.....	GEN	5R01 GM19963-03	59,144
GOLDSTEIN, LESTER.....	BIOCHEMICAL INTERRELATIONS OF NUCLEUS AND CYTOPLASM.....	CBY	5R01 GM15156-08	71,526
HALLICK, RICHARD B. ....	GENE EXPRESSION IN CELL ORGANELLES.....	CBY	5R01 GM21351-02	36,675
HAM, RICHARD G. ....	PROGRAM PROJECT: CELL BIOLOGY OF AGING.....	HDAG	8P01 AG00310-02	145,500
HASSNER, ALFRED.....	SYNTHESIS AND REACTIONS OF NOVEL HETEROCYCLES.....	MCHA	2R01 CA04474-17	3,347
HIRSH, DAVID I. ....	GENETIC CONTROL OF DEVELOPMENT.....	CBY	5R01 GM19851-03	29,704
KOCH, TAD H. ....	PHOTOCHEMICAL SYNTHESIS OF BIOACTIVE MOLECULES.....	MCHA	5R01 GM18349-05	38,914
KUEMPEL, PETER L. ....	TERMINATION OF CHROMOSOME REPLICATION.....	GEN	2R01 GM15905-08	58,918
LIPETZ, MILTON E. ....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07013-10	54,502
MC CONKEY, EDWIN H. ....	MESSANGER RNA AND DIFFERENTIATION OF ANIMAL CELLS.....	CBY	5R01 GM20767-02	54,565
MC CONKEY, EDWIN H. ....	NUCLEOLAR FUNCTIONS.....	CBY	1R01 GM21749-01	76,785
PICKETT-HEAPS, JEREMY D. ....	CELL DIVISION AND MORPHOGENESIS.....	CBY	5R01 GM19718-03	32,125
PORTER, KEITH R. ....	EVALUATION OF HIGH-VOLTAGE ELECTRON MICROSCOPY.....	SSS	5P07 RR00592-05	191,683
SOLL, LARRY J. ....	GENETIC ANALYSIS OF TRNA STRUCTURE AND FUNCTION.....	MBG	1R01 GM21596-01	45,583
SPANGENBERG, DOROTHY B. ....	STATOLITH DIFFERENTIATION IN AURELIA (JELLYFISH).....	DEN	2R01 DE03796-04	48,797
SPANGENBERG, DOROTHY B. ....	CYTOLOGY OF THYROXINE-INDUCED STROBILATION.....	CBY	5R01 HD07844-03	36,111
STAEHELIN, I. ANDREW.....	STRUCTURE AND FUNCTION OF FREEZE-ETCHED CELL MEMBRANES.....	CBY	5R01 GM18639-04	49,775
SUEOKA, NOBORU.....	PLASMA MEMBRANE PROTEINS FROM MAMMALIAN CELL TUMORS.....	BIO	1R01 CA16856-01	73,887
SUEOKA, NOBORU.....	BIOCHEMICAL AND GENETIC BASES OF CELL DIFFERENTIATION.....	PC	3R01 GM20352-02S1	9,000
SUEOKA, NOBORU.....	STUDIES OF CHROMOSOME REPLICATION.....	BIO	2R01 GM20352-03	86,638
THOMAS, DAVID R. ....	INVESTIGATIONS IN THE STIMULUS CONTROL OF BEHAVIOR.....	EXP	2R01 HD03486-07	77,137
WILSON, IRWIN B. ....	THE ENZYMOLOGY OF ANGIOTENSION PRODUCTION.....	PC	3R01 HL11201-08S1	5,787
WILSON, IRWIN B. ....	ENZYME THEORY AND RELATIONSHIP TO FUNCTION.....	PC	2R01 NS07156-10	44,105
YARUS, MICHAEL J. ....	INTERACTIONS OF TRNA AND AMINOACYL-TRNA SYNTHETASES.....	PC	5R01 GM15925-08	60,572
ORGANIZATION TOTAL	33	1,754,476		
<b>DENVER</b>				
<b>CHILDREN'S HOSPITAL ZIP CODE 80218</b>				
HOLTON, CHARLENE P. ....	SUPPORT FOR PEDIATRIC ONCOLOGY CENTER.....	CAP	5P02 CA12247-04	282,139
ORGANIZATION TOTAL	1	282,139		
<b>COLORADO REGIONAL CANCER CENTER ZIP CODE 80218</b>				
HOLTON, CHARLENE P. ....	CANCER CENTER CORE GRANT (COMPREHENSIVE).....	CAP	1P01 CA17060-01	386,126
ORGANIZATION TOTAL	1	386,126		
<b>DENVER HEALTH AND HOSPITALS DEPARTMENT—DENVER GENERAL HOSPITAL ZIP CODE 80204</b>				
EISEMAN, BEN.....	TREATMENT OF HEPATIC FAILURE.....	SGYB	5R01 AM17022-03	70,050
EISEMAN, BEN.....	STUDIES IN ACUTE TRAUMA.....	SSS	5P01 GM20309-03	179,804
MAJOR, FRANCIS J. ....	GYNCOLOGIC ONCOLOGY GROUP.....	CCI	5R10 CA15975-02	17,746
MOORE, GEORGE E. ....	STUDIES OF HUMAN HEMATOPOIETIC AND CANCER CELLS.....	ET	5R01 CA15018-02	115,180
MOORE, GEORGE E. ....	IMPROVEMENT OF DENVER GENERAL HOSPITAL ANIMAL FACILITIES.....	AR	1P06 RR00923-01	136,550
SHARMA, BRAHMA S. ....	IN VITRO IMMUNIZATION TO HUMAN TUMOR CELLS.....	IMB	1R01 CA17501-01	23,771
ORGANIZATION TOTAL	6	543,101		
<b>NATIONAL ASTHMA CENTER ZIP CODE 80204</b>				
ALEXANDER, A. BARNEY.....	THE SYMPTOMATIC TREATMENT OF ASTHMA BY RELAXATION.....	AFY	5R01 HL15620-02	35,666
CROPP, GERO J. ....	STUDY OF EXERCISE-INDUCED BRONCHOSPASM.....	CVB	5R01 HL16074-02	41,158
MIDDLETON, ELLIOTT, JR. ....	CLINICAL AND BIOCHEMICAL CORRELATIONS IN ASTHMA.....	AIRC	5P15 A110400-05	82,597
MIDDLETON, ELLIOTT, JR. ....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05523-11	32,157
MORRILL, CALLIS G. ....	CONTROL OF RESPIRATION IN CHILDREN WITH ASTHMA.....	CVA	1R01 HL18135-01	33,048
ORGANIZATION TOTAL	5	224,626		
<b>NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER ZIP CODE 80206</b>				
CAMPBELL, PRISCILLA A. ....	CELL BIOLOGY OF THE IMMUNE RESPONSE TO BACTERIA.....	BM	5R01 A111240-03	33,657
CARR, RONALD I. ....	PATHOGENIC SIGNIFICANCE OF INGESTED ANTIGENS.....	IMB	2R01 A110872-04	40,741
FARR, RICHARD S. ....	ALLERGY DISEASE CENTER.....	AIRC	5P15 A110398-05	95,406

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>COLORADO—Continued</b>				
FARR, RICHARD S.	IMMUNE REACTIONS TO INFECTIOUS AGENTS IN BRONCHITIS.....	BM	5R01 HL16991-06	47,578
GREY, HOWARD M.	STRUCTURE-FUNCTION RELATIONSHIPS OF IMMUNOGLOBULINS.....	ALY	2R01 AI09758-06	81,057
GREY, HOWARD M.	MEMBRANE STRUCTURE OF NEOPLASTIC AND NORMAL LYMPHOCYTES.....	ALY	5R01 CA15895-02	76,804
HARBECK, RONALD J.	CNS INVOLVEMENT IN IMMUNE COMPLEX DISEASE.....	IMB	1R01 NS12394-01	49,725
HUGGEL, DAVID W.	HYPOXIC AND HYPERCAPNIC PULMONARY EFFECTS IN ASTHMA.....	YIP	1R23 HL18349-01	41,452
KUBO, RALPH T.	BETA 2-MICROGLOBULIN ON THE SURFACE OF LYMPHOCYTES.....	ALY	5R01 AI12136-02	29,786
MC CLATCHY, J KENNETH	MODES OF ACTION OF ANTIMYCOBACTERIAL AGENTS.....	BM	5R01 AI08190-08	22,308
MC GUIRE, EDWARD J.	CELL ADHESION OF NORMAL AND MALIGNANT LIVER CELLS.....	PTHB	5R01 CA14431-03	38,466
MINDEN, PERCY	PRIMARY ANTIGEN-ANTIBODY REACTIONS IN TUBERCULOSIS.....	BM	5R01 CA15446-06	81,685
MORRIS, HELEN G.	CYCLIC AMP METABOLISM IN LEUKOCYTES FROM ASTHMATICS.....	PHRA	5R01 HL15313-03	46,794
PACE, NORMAN R.	SYNTHESIS AND REGULATION OF EUKARYOTIC RIBOSOMAL RNA.....	MBY	5R01 GM20147-03	56,242
PATO, MARTIN L.	CONTROL OF BACTERIAL PLASMID REPLICATION.....	MBC	5R01 AI11075-03	34,717
RICKENBERG, HOWARD V.	CONTROL OF ENZYME BIOSYNTHESIS-ROLE OF CYCLIC AMP.....	BIO	5R01 AM11046-09	58,557
RICKENBERG, HOWARD V.	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05474-13	106,417
SANDS, HOWARD	ROLE OF CYCLIC AMP IN RELAXATION OF BRONCHIAL MUSCLE.....	PHRA	5R01 HL14964-03	39,184
SOUHRADA, JOSEPH F.	FUNCTIONAL CHARACTERISTICS OF SMOOTH MUSCLE FROM LUNG.....	CVA	1R01 HL17322-01	29,662
ORGANIZATION TOTAL	19 1,010,238			
<b>UNIVERSITY OF COLORADO MEDICAL CENTER ZIP CODE 80220</b>				
ABRAMS, ADOLPH	STRUCTURE AND FUNCTION OF BACTERIAL MEMBRANE ATPASE.....	BIO	5R01 GM05810-16	56,739
AUSTIN, JAMES H.	STUDIES IN GENETICALLY DETERMINED NEUROLOGICAL DISEASES.....	NEUA	5R01 NS07701-09	54,249
AUSTIN, JAMES H.	STUDIES IN AGING OF THE BRAIN.....	NEUB	5R01 NS09760-05	59,613
BATTAGLIA, FREDERICK C.	STUDIES ON PREMATURITY.....	HDPB	5P01 HD00781-12	259,335
BAYLOR, DENIS A.	NEURAL SIGNALING IN THE RETINA.....	VISB	3R01 EY00904-02S1	886
BECK, PAUL	METABOLIC AND ENDOCRINE EFFECTS OF PEPTIDE HORMONES.....	END	5R01 HD02455-09	58,471
BETZ, GEORGE	POPULATION CONTROL RESEARCH: ENZYME STUDIES.....	REB	5R01 HD08309-02	36,997
BETZ, WILLIAM J.	NEUROMUSCULAR SYNAPSES IN CELL CULTURE.....	NEUB	2R01 NS10207-04	42,434
BLOUNT, S GILBERT, JR.	NATURAL HISTORY OF CONGENITAL HEART DEFECTS-JOINT STUDY.....	TEC	5R01 HL09478-10	20,804
BOREK, ERNEST	PROGRAM PROJECT IN BASIC ONCOLOGY.....	CAP	5P01 CA13419-02	383,863
BOREK, ERNEST	METHYLATIONS IN TUMORS.....	PC	5R01 CA14047-03	79,070
BROWN, WILLIAM R.	IMMUNOGLOBULIN A AND THE HUMAN GASTROINTESTINAL TRACT.....	SRC	1R26 CA17342-01	24,263
BURKE, THOMAS J.	SERUM CALCIUM AND RENAL AUTOREGULATORY EFFICIENCY.....	GMB	1R01 AM17646-01A1	57,601
CANN, JOHN R.	PHYSICO-CHEMISTRY AND IMMUNOLOGY OF MACROMOLECULES.....	BBCA	5R01 HL13909-24	45,950
CHIDSEY, CHARLES A.	PHARMACOLOGY AND PATHOPHYSIOLOGY OF SYMPATHETIC NERVES.....	SSS	5R01 HL09932-10	69,086
CLAMAN, HENRY N.	OUTPATIENT STUDY OF ALLERGIC VASCULITIS.....	SRC	5P15 AI12028-02	47,280
CLAMAN, HENRY N.	IMMUNOCOMPETENCE OF THYMUS CELLS.....	IMB	9R01 AI12685-10	75,464
CLAMAN, HENRY N.	IMMUNOLOGICAL CHANGES IN AGING.....	IMB	5R01 HD07779-02	73,988
COHEN, J JOHN	SUBPOPULATIONS OF THYMUS-DERIVED LYMPHOCYTES.....	IMB	5R01 AI11661-02	35,023
COHEN, SEYMOUR S.	ROLE OF POLYAMINES IN CELLULAR METABOLISM AND FUNCTION.....	MBY	5R01 AI10424-04	94,890
COHEN, SEYMOUR S.	STUDIES ON NORMAL AND VIRUS-INFECTED ANIMAL CELLS.....	ET	5R01 AI11636-02	120,963
CONGER, JOHN D.	PATHOGENESIS OF ACUTE RENAL FAILURE.....	GMB	1R01 HL18097-01	42,534
COTTON, ERNEST K.	CARDIOPULMONARY ADAPTATION OF NEWBORNS TO ALTITUDE.....	CVB	5R01 HL15430-02	10,281
CROWLE, ALFRED J.	MECHANISMS OF IMMUNOLOGICAL ENHANCEMENT.....	IMB	5R01 AI09867-05	37,873
ERIKSON, RAYMOND L.	BIOSYNTHESIS OF VIRAL RNAs.....	VR	5R01 AI06844-10	26,753
FENNESSEY, PAUL V.	ORGANIC METABOLITES RELATED TO MENTAL RETARDATION.....	MCHB	5R01 HD04870-06	57,247
FILLEY, GILES F.	HUMAN PULMONARY SURFACTANT FUNCTION IN SITU.....	CVA	1R01 HL17544-01A1	52,445
FINK, LOUIS M.	TRANSFORMATION OF CELLS BY CHEMICAL CARCINOGENS.....	PTHB	5R01 CA15109-02	27,488
FROST, WARREN W.	*SUPPORT FOR ANIMAL-CARE FACILITY.....	AR	5P06 RR00786-02	16,663
GENTON, EDWARD	PLATELET SURVIVAL AND INHIBITORS IN THROMBOEMBOLISM.....	HEM	5R01 HL16523-02	39,776
GERNER, ROBERT E.	CENTRAL ONCOLOGY GROUP.....	CCI	2R10 CA12204-04	26,591
GORDON, JULIUS A.	INTERACTION OF LECTINS WITH CELL MEMBRANES.....	CBY	5R01 CA14313-03	26,808
GORDON, STUART G.	ROLE OF CANCER FACTOR IN THROMBOSIS AND TUMOR GROWTH.....	HEM	5R01 CA14408-03	23,657
GROVER, ROBERT F.	ADAPTATION TO HYPOXIA.....	HEP	5P01 HL14985-04	544,419
HAGERMAN, DWAIN D.	BIO-SYNTHESIS AND ACTION OF FEMALE HORMONES.....	END	5R01 HD05085-09	83,325
HAHN, WILLIAM E.	GENETIC TRANSCRIPTION IN THE BRAIN.....	CBY	5R01 NS10813-03	24,883
HAMBIDGE, K MICHAEL	STUDIES OF HUMAN DEFICIENCIES OF CHROMIUM AND ZINC.....	NTN	2R01 AM12432-07	55,867
HUMBERT, JAMES R.	LEUKOCYTE BACTERICIDAL POWER IN LEUKEMIA.....	PTHB	5R01 CA15564-02	27,283
JOHNSON, ERNEST W.	STUDY OF TROPHIC INTERACTIONS AT SYNAPSES.....	NEUA	5R01 NS10832-02	15,714
KEMPE, C HENRY	RELATIONSHIP OF MULTIPLE SCLEROSIS AND VACCINIA.....	VR	5R01 NS10590-03	38,592

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>COLORADO—Continued</b>				
KERN, FRED, JR.	BILE SALT MALABSORPTION.....	GMA	5R01 AM12626-07	67,155
KERR, SYLVIA J.	LACK OF CONTROL OF TRNA METHYLASES IN TUMOR TISSUE.....	PC	2R01 CA12742-04	62,303
KING, DONALD W.	WORKSHOPS IN TECHNIQUES OF CANCER RESEARCH.....	NSS	5R13 CA15961-02	89,400
KOZLOFF, LLOYD M.	CHEMISTRY OF PHAGE INVASION, STRUCTURE, AND ASSEMBLY.....	VR	2R01 AI06336-11	62,840
LA FORCE, FRANCOIS M.	DIAGNOSIS OF MENINGITIS BY GAS CHROMATOGRAPHY OF CSF.....	MCHB	1R01 AI12161-01	37,415
LANGAN, THOMAS A.	PROPERTIES AND FUNCTION OF NUCLEAR PHOSPHOPROTEINS.....	MBY	5R01 CA12877-05	52,482
LASHER, ROBERT S.	DIFFERENTIATION AND TUMORGENESIS OF NEURAL CELLS.....	PTHA	5R01 NS09641-05	24,868
LEHMAN, RALPH A.	LATERALIZATION OF HANDEDNESS, ATTENTION AND LEARNING.....	EXP	1R01 NS12117-01	26,040
MACKENZIE, COSMO G.	CONTROL OF LIPID METABOLISM IN MAMMALIAN CELLS.....	MET	5R01 AM07162-14	72,000
MANES, COLE	GROWTH REGULATION IN THE PREIMPLANTATION MAMMAL.....	HED	5R01 HD04274-06	76,646
MARTIN, A ROBERT	MECHANISMS OF SYNAPTIC TRANSMISSION.....	PHY	5R01 NS09660-06	55,429
MC INTOSH, KENNETH	INFECTION AND CHILDHOOD OBSTRUCTIVE AIRWAY DISEASE.....	VR	5R01 HD06819-03	77,905
MESCHIA, GIACOMO	PHYSIOLOGICAL STUDY OF THE PLACENTA.....	SSS	5R01 HD01866-10	48,309
MESCHIA, GIACOMO	PRODUCTION AND EXCRETION OF UREA IN PRENATAL LIFE.....	SSS	5R01 HD05111-05	47,645
MOLINOFF, PERRY B.	DOPAMINE-BETA-HYDROXYLASE & NOREPINEPHRINE SYNTHESIS.....	NEUB	5R01 NS10206-03	41,336
MOORE, GEORGE E.	TUMOR ALKYLATION WITH ALPHA-BETA-UNSATURATED COMPOUNDS.....	ET	1R01 CA17835-01	35,913
MURPHY, ROBERT C.	STRUCTURE DETERMINATION OF PHOSPHOLIPIDS.....	MCHB	1R01 GM19897-01	26,958
MURPHY, ROBERT C.	USE OF MASS SPECTROMETRY IN PHARMACOLOGICAL RESEARCH.....	SSS	5R01 GM20457-03	40,723
NAKANE, PAUL K.	ENZYME-LABELED ANTIBODIES FOR IMMUNOHISTOCHEMISTRY.....	ALY	5R01 AI09109-07	45,241
NEVILLE, HANS E.	SYMPATHETIC NERVOUS SYSTEM INFLUENCES ON ATHEROSCLEROSIS.....	PTHA	5R01 HL15210-03	37,758
NEVILLE, MARGARET C.	MATHEMATICAL MODELS OF MEMBRANE PROCESSES.....	PHY	5R01 AM15807-03	25,874
NOLTE, JOHN F.	INTERACTION OF PHOTORECEPTOR CELLS.....	VISB	5R01 EY01155-03	17,062
O'BRIEN, DONOUGH	CENTER GRANT FOR RESEARCH IN MENTAL RETARDATION.....	HDMR	5P01 HD04024-07	173,200
O'BRIEN, DONOUGH	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.....	CLR	5M01 RR00069-13	366,016
PABST, MICHAEL J.	BIOSYNTHESIS OF LEVAN BY ACTINOMYCES VISCOSUS.....	DEN	1R23 DE04239-01	10,000
PANNBACKER, RICHARD G.	CYCLIC NUCLEOTIDE FUNCTION IN RETINAL PHOTORECEPTORS.....	BIO	2R01 EY01171-03	45,337
PATERSON, CHRISTOPHER A.	STUDY OF BALANCE AND MOVEMENT OF IONS IN THE LENS.....	VISA	2R01 EY00506-07	62,414
PATTERSON, DAVID	GENE EXPRESSION IN SOMATIC CELLS IN THE AGING PROCESS.....	GEN	1R01 AG00029-01	64,309
PERKINS, JOHN P.	THE REGULATION OF CYCLIC AMP LEVELS IN BRAIN.....	PHRA	2R01 NS10233-07	65,764
PETTUOHN, DAVID E.	ORGANIZATION OF DNA CONFORMATION IN CHROMOSOMES.....	BBCA	5R01 GM18243-05	60,080
PETTY, THOMAS L.	STUDIES OF NORMAL AND ABNORMAL HUMAN SURFACTANT.....	CVA	1R01 HL17444-01	36,922
PIERCE, G BARRY	STRUCTURE, FUNCTION, AND PATHOLOGY OF BASEMENT MEMBRANE.....	PTHB	5R01 AM15663-04	64,602
PRASAD, KEDAR N.	CONTROL MECHANISMS OF NEUROBLASTOMA CELLS IN VITRO.....	PTHA	5R01 NS09230-05	49,199
PUCK, THEODORE T.	GENETIC BIOCHEMICAL STUDY ON SOMATIC CELLS AND CANCER.....	GEN	1R01 CA15794-01A1	38,968
PUCK, THEODORE T.	STUDY OF CELL BIOLOGY OF DEVELOPMENTAL ANOMALIES.....	HDPB	5P01 HD02080-10	160,619
REEVE, E BASIL	STUDIES ON PSEUDOXANTHOMA ELASTICUM.....	GMA	1R01 AM17760-01	71,785
REEVE, E BASIL	MECHANISMS REGULATING PLASMA PROTEINS AND SOLUTES.....	HEM	5R01 HL02262-20	63,731
REISS, OSCAR K.	PULMONARY PRESSOR SUBSTANCES FROM AMNIOTIC FLUID.....	CVA	1R01 HL17518-01	38,376
ROBINSON, ARTHUR	EPIDEMIOLOGY AND ETIOLOGY OF HUMAN CHROMOSOMAL DEFECTS.....	GEN	5R01 HD00622-11	79,798
ROBINSON, WILLIAM A.	LEUKEMIA AND HUMORAL REGULATORS OF WBC PRODUCTION.....	HEM	5R01 CA11305-07	53,093
ROPER, STEPHEN D.	SYNAPTIC TRANSMISSION IN AUTONOMIC GANGLION CELLS.....	NEUB	5R01 NS11505-02	19,023
RUTLEDGE, CHARLES O.	EFFECT OF DRUGS ON RELEASE OF BIOGENIC AMINES & BEHAVIOR.....	PHRA	5R01 NS09051-06	17,547
SADLER, JOHN R.	THE LACTOSE REPRESSOR-OPERATOR INTERACTION.....	MBC	1R01 GM22297-01	33,198
SAHN, STEVEN A.	EFFECT OF PHARMACOLOGIC AGENTS ON VENTILATORY DRIVE.....	YIP	1R23 HL17237-01A1	39,168
SANDO, ISAMU	HISTOPATHOLOGY OF TEMPORAL BONES.....	CMS	2R01 NS09293-04A1	40,496
SAUERBIER, WALTER	A METHOD FOR DETERMINING UNITS OF TRANSCRIPTION.....	GEN	3R01 GM20418-01S1	6,544
SAUERBIER, WALTER	A METHOD FOR DETERMINING UNITS OF TRANSCRIPTION.....	GEN	5R01 GM20418-02	41,439
SCARBOROUGH, GENE A.	STRUCTURE AND FUNCTION OF NEUROSPORA CRASSA MEMBRANES.....	MBC	5R01 GM19971-05	31,387
SCHALCH, DON S.	ROLE OF SOMATOMEDIN IN GROWTH AND DIABETES MELLITUS.....	END	4R01 AM18617-01	59,723
SCHRIER, ROBERT W.	SYSTEMIC HEMODYNAMICS AND RENAL WATER EXCRETION.....	CVA	5R01 HL15629-03	137,358
SEEDS, NICHOLAS W.	NEOPLASTIC-NORMAL CELL COAGGREGATES.....	PTHB	5R01 CA15549-02	44,223
SEEDS, NICHOLAS W.	IN VITRO BIOCHEMICAL DIFFERENTIATION OF NERVE CELLS.....	NEUA	5R01 NS09818-03	21,077
SEEDS, NICHOLAS W.	GTP AND TUBULIN STRUCTURE.....	CBY	5R01 NS10709-02	32,493
SIMON, FRANCIS R.	LIVER MEMBRANE BINDING AND TURNOVER IN CHOLESTASIS.....	MBY	2R01 AM15851-04	52,449
STARZL, THOMAS E.	EFFECTS OF ORTHOTOPIC LIVER TRANSPLANTATION.....	SGYB	5R01 AM07772-12	95,244
STARZL, THOMAS E.	HEPATOTROPIC FACTORS IN SPLANCHNIC VENOUS BLOOD.....	SGYB	5R01 AM17260-07	61,813
STEWART, JOHN M.	EFFECT OF PEPTIDE HORMONES ON CIRCULATORY SYSTEM.....	MCHA	5R01 HL12325-07	50,399
TAKEDA, YASUHIKO	DYNAMICS OF THROMBUS FORMATION AND DISSOLUTION.....	HEM	2R01 HL11686-07	43,954
TALMAGE, DAVID W.	CELL RECOGNITION AND INTERACTION IN THE IMMUNE RESPONSE.....	IMB	2R01 AI03047-17	64,810
VON KAULLA, KURT N.	SYNTHETIC FIBRINOLYTIC AND THROMBOLYTIC AGENTS.....	HEM	5R01 HL09985-09	40,357



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>COLORADO—Continued</b>				
WARD, HARRY P.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00051-14	985,716
WARD, HARRY P.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05357-14	255,345
WEINER, NORMAN	THE STORAGE AND RELEASE OF TISSUE CATECHOLAMINES	PHRA	5R01 NS07642-09	76,186
WEINER, NORMAN	STUDIES ON THE REGULATION OF NOREPINEPHRINE SYNTHESIS	PHRA	5R01 NS07927-08	33,007
WEINER, NORMAN	BASAL GLANGLIA DISORDERS AND NEUROTRANSMITTER FUNCTION	NSPB	5P01 NS09199-05	172,845
WENGER, DAVID A.	B-GALACTOSIDASE ACTIVITY RELATED TO MENTAL RETARDATION	PC	5R01 HD07773-02	30,679
WHITLOCK, DAVID G.	PATHWAYS SUBSERVING PROPRIOCEPTION	NEUA	2R01 NS08453-07	72,422
WICKELGREN, WARREN O.	ORGANIZATION OF THE NERVOUS SYSTEM	PHY	5R01 NS09661-06	25,298
WICKS, WESLEY D.	REGULATION OF HEPATOMA ENZYME SYNTHESIS BY CYCLIC AMP	PC	5R01 AM16753-04	32,542
WICKS, WESLEY D.	CAMP ANALOGS AS GROWTH REGULATORS IN HEPATOMA CELLS	BIO	5R01 CA15687-02	37,927
WOOD, RAYMOND P.	INNER EAR DYSFUNCTION IN CHRONIC RENAL DISEASE	CMS	5R01 AM15772-04	46,496
ORGANIZATION TOTAL	111	8,151,848		
<b>UNIVERSITY OF DENVER ZIP CODE 80210</b>				
EATON, GARETH R.	INTERACTION OF SPIN LABELS WITH TRANSITION METALS	BBCB	5R01 GM21156-02	62,406
KEY, WILLIAM H.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07138-04	33,598
RINARD, GEORGE A.	OCULAR CONTROL SYSTEMS FOR ORTHOTICS	AFY	5R01 AM10763-08	85,978
YORK, SHELDON S.	STRUCTURE OF THE OPERATOR SITE ON THE LAC REPRESSOR	BBCA	5R01 GM20561-03	22,537
ORGANIZATION TOTAL	4	204,519		
<b>FORT COLLINS</b>				
<b>COLORADO STATE UNIVERSITY ZIP CODE 80521</b>				
AZARI, PARVIZ	BIOCHEMICAL INVESTIGATION OF A HEREDITARY CATARACT	VISA	5R01 EY01065-02	51,377
BAMBURG, JAMES R.	REGULATION AND FUNCTION OF PROTEINS IN GROWING NERVES	MBY	2R01 NS10429-04	55,663
BEDFORD, JOEL S.	DOSE AND TIME FACTORS IN CELLULAR RADIOSENSITIVITY	RAD	1R01 CA18023-01	133,854
BONILLA, CARLOS A.	NONSURGICAL MODEL FOR INDUCING CARDIOGENIC SHOCK	CVB	5R01 HL16233-02	67,316
CAUGHEY, WINSLOW S.	ISOLATION, STRUCTURE, AND MODEL REACTIONS OF HEME A	BBCB	5R01 HL15980-03	112,132
DE BRUIN, KENNETH E.	POTENTIAL ANTITUMOR AGENTS AND ESTERASE INHIBITORS	MCHB	5R01 CA14477-03	19,662
DEWEY, WILLIAM C.	CELLULAR RESPONSES TO IRRADIATION	RAD	5R01 CA08618-10	129,394
DEWEY, WILLIAM C.	MOLECULAR BASIS OF RADIOSENSITIZATION BY HYPERTHERMIA	RAD	1R01 CA18334-01	188,370
FAHRNEY, DAVID E.	ARGININE DEIMINASE: A MECHANISTIC ANALYSIS	SSS	5R01 GM21364-02	45,841
GILLETTE, EDWARD L.	RADIATION REPAIR OF NORMAL MAMMALIAN TISSUES	RAD	5R01 CA13899-03	54,638
GILLETTE, EDWARD L.	COMPARATIVE ONCOLOGY RESEARCH PROGRAM	CAP	5P01 CA15820-02	121,517
GILLETTE, EDWARD L.	TUMOR & NORMAL TISSUE RESPONSE TO HEAT AND RADIATION	RAD	1R01 CA17831-01	51,724
GORMAN, HARRY A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5R05 RR05458-13	89,917
HAPP, GEORGE M.	EXOCRINE GLANDS. MODELS OF DIFFERENTIATIVE TRANSITIONS	TMP	1R01 GM21711-01	39,335
HEGEDUS, LOUIS S.	ANTITUMOR AGENTS - NEW COMPOUNDS AND NEW SYNTHESSES	MCHA	5R01 CA15529-02	19,803
HILL, GEORGE C.	THE FUNCTION OF MITOCHONDRIA IN TRYPANOSOMES	TMP	5R01 AI11622-02	21,800
JORDAN, JOHN P.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07127-07	35,903
JOYCE, BARBARA K.	CARCINOGENIC IMPLICATIONS OF ASPERGILLOTOXICOSIS	TOX	5R01 ES00585-05	48,860
KOZLOWSKI, GERALD P.	CORRELATED IMMUNOTECHNIQUES FOR STUDY OF GN-RH & ADH	REB	1R01 HD08867-01	53,308
LETT, JOHN T.	AGING, RADIATION & DNA DAMAGE IN NONDIVIDING TISSUE	RAD	9R01 AG00005-03	71,580
LETT, JOHN T.	REPAIR OF RADIATION DAMAGE TO CELLULAR DNA	RAD	5R01 CA10714-08	61,095
MEYERS, ALBERT I.	SYNTHESIS OF MAYTANSINE AND ITS DERIVATIVES	MCHA	1R01 CA16051-01A1	69,248
MILLER, LARRY L.	ELECTROCHEMICAL MEDICINAL SYNTHESIS	MCHB	2R01 GM19234-04	56,907
NORNES, HOWARD O.	DEVELOPMENT SPINAL CORD-PATTERNING AND CELL INTERACTIONS	NEUB	1R01 NS12020-01	38,567
O'DONNELL, CHARLES M.	PORPHYRIN ANALYSIS BY PHOSPHORESCENCE SPECTROSCOPY	MCHB	1R01 ES00987-01	60,200
OSTERYOUNG, JANET G.	ELECTROCHEMICAL ANALYSIS FOR CARCINOGENIC NITROSAMINES	MCHB	5R01 CA15028-02	28,943
PHILLIPS, JERRY L.	ROLE OF ZINC TRANSFERRIN IN LYMPHOCYTE TRANSFORMATION	SSS	1R01 HL17836-01	46,962
RALPH, CHARLES L.	FUNCTION OF THE PINEAL COMPLEX	END	7R01 NS12257-01	29,255
RALPH, CHARLES L.	FUNCTION OF THE PINEAL COMPLEX	END	2R01 NS12257-02	54,753
SHAPIRO, DANIEL W.	REPLICATION OF JAPANESE ENCEPHALITIS VIRUS	VR	1R01 AI12660-01	53,348
SLATTER, DOUGLAS H.	EXPERIMENTAL OCULAR ATHEROSCLEROSIS	VISA	1R23 EY01450-01	7,446
STERMITZ, FRANK R.	ANTITUMOR AGENTS FROM NATURAL SOURCES	MCHB	5R01 CA13648-03	20,451
STORZ, JOHANNES	PATHOGENESIS OF CHLAMYDIAL POLYARTHRITIS-ENTERITIS	VR	5R01 AI08420-08	59,704
TORNABENE, THOMAS G.	EFFECTS OF LEAD ON PROCARYOTIC AND EUKARYOTIC CELLS	TOX	5R01 ES01047-02	25,056
TU, ANTHONY T.	HEMORRHAGIC AND NECROTIC TOXINS IN SNAKE VENOMS	TOX	5R01 GM15591-08	22,302
TU, ANTHONY T.	MODE OF ACTION OF VENOMS AND TOXINS OF SEA SNAKES	TOX	5R01 GM19172-04	27,710



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>COLORADO—Continued</b>				
WILL, DONALD H .....	ANIMAL MODELS OF HYPOXIC PULMONARY HYPERTENSION .....	CVA	1R01 HL18191-01	48,613
ORGANIZATION TOTAL	37 2,122,554			
<b>SPIVAK</b>				
AMERICAN MEDICAL CENTER AT DENVER ZIP CODE 80214				
HUSEBY, ROBERT A .....	STUDIES OF SOME ENDOCRINE ASPECTS OF NEOPLASIA .....	END	2R01 CA05191-16	61,431
JACOBS, BARBARA B .....	HOST-ALLOGRAFT CHANGES INDUCED BY EXPLANTED TUMORS .....	PTHB	5R01 CA12075-05	27,796
ORGANIZATION TOTAL	2 89,227			
STATE TOTAL	219 1,476,854			
<b>CONNECTICUT</b>				
<b>FAIRFIELD</b>				
FAIRFIELD UNIVERSITY ZIP CODE 06430				
MACDONALD, JOHN C .....	PATTERN RECOGNITION IN LABORATORY MEDICINE .....	COM	1R01 GM21270-01	15,342
ORGANIZATION TOTAL	1 15,342			
<b>FARMINGTON</b>				
UNIVERSITY OF CONNECTICUT HEALTH CENTER ZIP CODE 06032				
BECKER, ELMER L .....	IMMUNOLOGICALLY ACTIVATED ENZYME SYSTEMS OF CELLS .....	ALY	5R01 AI09648-05	85,245
BERLIN, RICHARD D .....	EFFECT OF MICROTUBULAR PROTEINS ON CELL SURFACES .....	CBY	5R01 CA15544-03	44,482
BRONNER, FELIX .....	CALCIUM BINDING PROTEIN OF KIDNEY .....	GMB	5R01 AM16408-02	24,483
BURSTONE, CHARLES J .....	FORCE SYSTEMS FROM ORTHODONTIC APPLIANCES .....	DEN	5R01 DE03953-02	120,069
CATALANOTTO, FRANK A .....	NEUROSENSORY DEFICITS IN CRANIOFACIAL ANOMALIES .....	DEN	1R23 DE04130-01	10,950
CHAN, TEH-SHENG .....	SOMATIC CELL HYBRIDS FOR STUDIES OF HUMAN DISEASES .....	GEN	5R01 GM21326-02	48,874
CHANG, LUCY M .....	MOLECULAR STRUCTURE OF MAMMALIAN DNA POLYMERASES .....	BIO	5R01 GM19789-03	40,629
CINTI, DOMINICK L .....	ROLE OF THE MITOCHONDRIA IN HEPATIC DRUG METABOLISM .....	PHRA	5R01 AM16678-02	27,638
CINTI, DOMINICK L .....	ARYL-HYDROCARBON HYDROXYLASE INDUCTION IN RAT KIDNEY .....	TOX	3R01 CA15897-01S1	5,820
CINTI, DOMINICK L .....	ARYL-HYDROCARBON HYDROXYLASE INDUCTION IN RAT KIDNEY .....	TOX	5R01 CA15897-02	31,462
COGEN, RONALD B .....	STUDIES ON LYMPHOCYTE-MEDIATED CYTOTOXICITY .....	IMB	5R23 DE03710-03	7,500
COHEN, STANLEY .....	COMPLEMENT AND CELLULAR ACTIVATION .....	ALY	3R01 AI12477-01S1	21,972
COHEN, STANLEY .....	COMPLEMENT AND CELLULAR ACTIVATION .....	ALY	5R01 AI12477-02	46,899
COOPERSTEIN, SHERWIN J .....	PHYSIOLOGY OF PANCREATIC ISLETS AND ACTION OF ALLOXAN .....	MET	2R01 AM09059-12	55,195
CUTLER, LESLIE S .....	EPITHELIAL-MESENCHYMAL CONTACTS IN CYTODIFFERENTIATION .....	DEN	5R23 DE03933-02	9,735
DAVIDOFF, FRANK F .....	EFFECT OF GUANIDINE DERIVATIVES ON BIOLOGICAL SYSTEMS .....	BIO	5R01 AM18087-02	53,223
DEUTSCHER, MURRAY P .....	ENZYMOLGY AND CONTROL OF AMINO ACID ACTIVATION .....	PC	2R01 GM16317-07	74,841
FEINSTEIN, MAURICE B .....	STUDIES ON MECHANISM OF ACTION OF ANESTHETICS .....	PHRA	2R01 GM17536-06	29,992
FREER, RICHARD J .....	EFFECT OF ANGIOTENSIN ANALOGS ON CIRCULATORY SYSTEM .....	PHRA	5R01 HL15697-03	28,832
GLASEL, JAY A .....	COMPUTER ASSISTED MOLECULAR CONFORMATION CALCULATIONS .....	BBCB	2R01 GM19384-02	19,664
GLASEL, JAY A .....	SUPPORT FOR NMR SPECTROSCOPY FACILITY .....	MCHB	5P07 RR00639-02	77,889
GOLDSCHNEIDER, IRVING .....	DEVELOPMENT OF IMMUNOLOGICALLY COMPETENT LYMPHOCYTES .....	IMB	2R01 AI09649-06A1	48,014
HINTZ, RAYMOND L .....	SOMATOMEDIN: IN VIVO AND IN VITRO ACTIONS .....	END	5R01 AM17645-02	24,798
HOYER, LEON W .....	STUDIES OF ERYTHROCYTE ANTIGEN SITE DENSITY .....	HEM	5R01 HL13594-05	51,671
HOYER, LEON W .....	STUDIES OF ANTIBODIES TO ANTIHEMOPHILIC FACTOR .....	HEM	5R01 HL16626-02	66,663
HOYER, LEON W .....	STUDIES OF ANTIHEMOPHILIC FACTOR .....	HEM	1R01 HL16872-01	89,005
JUNGAS, ROBERT L .....	ACTION OF INSULIN ON ENZYMES OF ADIPOSE TISSUE .....	MET	5R01 AM18092-02	49,668
KOLAKOWSKI, DONALD .....	THE EFFECT OF MAJOR GENES ON THE HUMAN DENTITION .....	GEN	5R01 DE04082-02	34,135
LINDQUIST, RICHARD R .....	REGULATION OF GRAFT VERSUS HOST REACTIONS .....	IMB	5R01 AI11175-02	43,017
LOBL, RICHARD T .....	ALTERATIONS IN MECHANISM OF ACTION .....	END	3R01 HD06672-03S1	7,264
LOE, HARALD .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05677-07	132,187
LURIE, ALAN G .....	LOW-LEVEL IRRADIATION-MODIFICATION OF CARCINOGENESIS .....	RAD	1R23 DE03996-01	10,040
MASSEY, ROBERT U .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05678-07	157,739
MİYAMOTO, MICHAEL D .....	PHARMACOLOGY OF QUANTAL RELEASE PARAMETERS .....	PHRA	1R01 NS12270-01	31,825

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CONNECTICUT—Continued</b>				
NANDA, RAVINDRA .....	ANTERIOR DISPLACEMENT OF MAXILLA BY CONTROLLED FORCES .....	DEN	1R23 DE03998-01	10,048
NUKI, KLAUS .....	BLOOD VESSEL RESPONSE IN EARLY PERIODONTAL DISEASE .....	OBM	1R01 DE04389-01	50,053
O'ROURKE, J. ....	UVEAL BLOOD FLOW AND METABOLISM .....	VIS	5R01 EY00123-06	48,094
OLIVER, JANET M. ....	ACTION OF CARBAMATE HERBICIDES IN MAMMALIAN CELLS .....	TOX	1R01 ES01106-01	38,010
OSBORN, MARY J. ....	STUDIES ON BIOSYNTHESIS OF LIPOPOLYSACCHARIDES .....	PC	5R01 AI08650-07	126,399
OZOLS, JURIS .....	CYTOCHROMES IN NORMAL AND ALTERED HEPATOCYTE MEMBRANES .....	BIO	5R01 GM20520-02	34,894
PAPPANO, ACHILLES J. ....	PHARMACOLOGY OF DEVELOPING CARDIAC TISSUES .....	PHRA	5R01 HL13339-06	50,005
PATTERSON, JOHN W. ....	EXPERIMENTAL CATARACTS .....	VISA	5R01 EY00902-11	15,218
PFEIFFER, STEVEN E. ....	CLONAL LINES OF NERVOUS SYSTEM CELLS IN TISSUE CULTURE .....	MBY	5R01 NS10861-03	47,101
POOLE, ANDREW E. ....	Salivary peroxidase and the genetics of oral disease .....	DEN	5R23 DE03945-02	11,880
POYTON, ROBERT O. ....	BIOSYNTHESIS AND ASSEMBLY OF CYTOCHROME C OXIDASE .....	BIO	1R01 GM21800-01	46,850
QUACKENBUSH, LARRY E. ....	LYSOSOMAL MEMBRANES: CHEMICAL COMPOSITION .....	MBY	5R01 GM20926-02	29,556
RAISZ, LAWRENCE G. ....	PARATHYROID AND BONE METABOLISM .....	SSS	2R01 AM18063-02	141,052
RESSLER, CHARLOTTE .....	BIOCHEMISTRY OF NATURAL AMINO ACID NEUROLATHYROGENS .....	TOX	7R01 NS12448-01	11,641
RICHELLE, LEON J. ....	STUDY OF DEVELOPMENTAL BIOLOGY OF CALCIFIED TISSUES .....	SSS	5R01 DE02953-07	135,103
RODAN, GIDEON A. ....	PARATHYROID BIOASSAY BASED ON CAMP IN CELL SUSPENSION .....	GMB	1R01 AM17848-01	48,955
ROSSOMANDO, EDWARD F. ....	CELLULAR MIGRATION AND FACIAL DEVELOPMENT .....	CBY	1R01 DE03715-01A1	20,460
ROTHFIELD, LAWRENCE I. ....	STUDIES OF GLYCOSYL TRANSFERASES .....	PC	5R01 AM13407-07	153,050
ROTHFIELD, NAOMI F. ....	E-B VIRUS ANTIBODIES IN CONNECTIVE TISSUE DISEASES .....	GMA	5R01 AM16029-02	41,653
ROTHFIELD, NAOMI F. ....	THE ROLE OF PROPERDIN IN CONNECTIVE TISSUE DISEASES .....	GMA	5R01 AM16576-03	33,650
SETLOW, PETER .....	DEGRADATIVE REACTIONS IN SPORE GERMINATION .....	MBC	5R01 GM19698-03	31,002
SHA'AEI, RAMADAN I. ....	STUDIES OF MEMBRANE STRUCTURE AND FUNCTION .....	PHY	1R01 GM2068-01	31,240
SHEETZ, MICHAEL P. ....	ACTIN BINDING PROTEIN OF HUMAN ERYTHROCYTE MEMBRANES .....	CBY	1R01 HL18317-01	51,936
SPENCER, RICHARD P. ....	PROGRAM IN RADIOISOTOPE STUDIES OF TUMORS AND GROWTH .....	RAD	7R01 CA17802-01	145,825
STRITTMATTER, PHILIPP .....	STUDY OF STRUCTURE AND FUNCTION OF MICROSOMAL MEMBRANES .....	PC	5R01 GM15924-08	121,571
TANZER, MARVIN L. ....	STRUCTURE, FUNCTION, AND PROPERTIES OF COLLAGEN .....	BBCB	2R01 AM12683-07	68,815
TANZER, MARVIN L. ....	BIOLOGY AND CHEMISTRY OF PROCOLLAGEN IN CELL CULTURE .....	PC	5R01 AM17220-02	46,761
TAUBMAN, SHELDON B. ....	LYSOSOMAL ENZYMES AND THE ETIOLOGY OF PERIODONTITIS .....	DEN	5R01 DE03766-03	35,344
TIBBETTS, CLARK J. ....	ADENOVIRUS GENOME EXPRESSION/PHYSICAL MAPPING STUDIES .....	SSS	1R01 CA17130-01	66,495
VENHAM, LARRY L. ....	CHILDREN'S RESPONSE TO DENTAL TREATMENT .....	CPR	1R23 DE03891-01A1	13,734
VOLLE, ROBERT L. ....	STUDIES ON SYMPATHETIC GANGLIA FOLLOWING CONDITIONING .....	NEUB	5R01 NS07540-08	27,994
WARD, PETER A. ....	LEUKOCYTE CHEMOTAXIS .....	ALY	5R01 AI09651-05	55,175
WARD, PETER A. ....	CHEMOTACTIC FACTOR INACTIVATOR AND PULMONARY EMPHYSEMA .....	ALY	5R01 AI11526-02	35,747
WARD, PETER A. ....	TUMOR CELL CHEMOTAXIS AND METASTATIC DISEASE .....	IMB	1R01 CA17665-01	67,301
WU, HENRY C. ....	BIOCHEMISTRY OF CELL DIVISION IN BACTERIA .....	MBC	2R01 CA11371-07	64,662
ZURIER, ROBERT B. ....	BIOLOGICAL EFFECTS OF LYSOSOMAL ENZYME RELEASE .....	PTHA	5R01 AM17309-02	25,881
ORGANIZATION TOTAL	70	3,594,575		
<b>MIDDLETOWN</b>				
<b>WESLEYAN UNIVERSITY      ZIP CODE 06457</b>				
ALLEWELL, NORMA M. ....	CALORIMETRIC ANALYSIS OF ASPARTATE TRANS-CARBAMYLASE .....	BBCA	2R01 AM17335-03	52,100
BURFORD, M. GILBERT .....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	NSS	5S05 RR07107-08	28,071
DONADY, JOHN J. ....	GENETIC CONTROL OF CELL DIFFERENTIATION .....	GEN	1R01 HD08286-01	21,144
HAAKE, PAUL C. ....	MODEL STUDIES FOR METABOLIC PROCESSES .....	BIO	2R01 AM12743-08	34,209
INFANTE, ANTHONY A. ....	CONTROL OF PROTEIN SYNTHESIS DURING EMBRYOGENESIS .....	CBY	5R01 HD03753-07	33,639
LUKENS, LEWIS N. ....	COLLAGEN SYNTHESIS AND ITS REGULATION .....	MBY	5R01 AM16162-04	74,336
LYNCH, CAROL B. ....	GENETIC ANALYSIS OF BEHAVIORAL THERMOREGULATION .....	GEN	1R01 GM21993-01	44,880
WOLFE, JASON S. ....	REGULATION OF GENE EXPRESSION IN SYNCHRONIZED CELLS .....	GEN	5R01 GM18014-05	27,008
ORGANIZATION TOTAL	8	315,387		
<b>NEW HAVEN</b>				
<b>HASKINS LABORATORIES      ZIP CODE 06510</b>				
COOPER, FRANKLIN S. ....	RESEARCH PROGRAM ON DYNAMICS OF SPEECH ARTICULATION .....	SSS	5P01 DE01774-14	210,072
COOPER, FRANKLIN S. ....	STUDY OF SPEECH AND READING PROCESSES .....	HOGD	5P01 HD01994-10	238,063
HUTNER, SEYMOUR H. ....	BIOPTERIN ASSAY IN CHROMAFFIN AND NEURAL TISSUE .....	NTN	2R01 AM15137-03	39,897
LIBERMAN, ALVIN M. ....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05596-11	54,167

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CONNECTICUT—Continued</b>				
ORGANIZATION TOTAL	4	542,199		
<b>JOHN B. PIERCE FOUNDATION OF CONNECTICUT ZIP CODE 06519</b>				
BARTOSHUK, LINDA M.	EFFECT OF SOLUTES AND ADAPTATION ON TASTE OF WATER	EXP	5R01 ES00880-03	29,995
BOUHUYS, AREND	AIR POLLUTANTS-LUNG PHYSIOLOGY AND LUNG BIOCHEMISTRY	CVA	3R01 HL14534-0351	2,376
CAIN, WILLIAM S.	PERCEIVED INTENSITY OF ODORANTS AND IRRITANTS	EXP	2R01 ES00592-04	67,651
DU BOIS, ARTHUR B.	PERIPHERAL CIRCULATION AND FLUID BALANCE	AFY	1R01 HL17407-01	72,374
GAGGE, A PHARO	STUDY OF HUMAN RESPONSES TO THERMAL ENVIRONMENT	AFY	5P01 ES00354-08	204,320
HARDY, JAMES D.	SINGLE UNIT ACTIVITY AND THERMOREGULATION	NEUA	2R01 NS04655-13	46,004
HITCHCOCK, MARGARET	INTERACTION OF AIR POLLUTANTS WITH LIVER FUNCTION	TOX	1R01 ES00711-01A1	35,201
RAWSON, ROBERT O	VASCULAR RESPONSES TO HEAT	AFY	5R01 HL12038-08	69,507
STITT, JOHN T.	TEMPERATURE REGULATION ACTION OF PROSTAGLANDIN E1	NEUA	5R01 NS11487-02	37,363
STOLWIJK, JAN A.	PERIPHERAL VENOMOTOR CONTROL IN THERMAL STRESS	AFY	1R01 HL17732-01	46,870
STOLWIJK, JAN A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05692-06	69,802
ORGANIZATION TOTAL	11	681,463		
<b>YALE UNIVERSITY ZIP CODE 06520</b>				
ADELBERG, EDWARD A.	GENE TRANSFER IN CULTURED MAMMALIAN CELLS	GEN	5R01 GM19481-03	302,163
ALBERT, DANIEL M.	HISTOPATHOLOGIC STUDY OF PIGMENTED OCULAR TUMORS	VISA	2R01 EY00108-06	108,847
ALTMAN, SIDNEY	STUDIES OF PRECURSORS, MUTANTS, AND FUNCTION OF TRNA	GEN	2R01 GM19422-04	77,071
ASKENASE, PHILIP W.	IMMUNOLOGY OF CUTANEOUS BASOPHIL HYPERSENSITIVITY	IMB	5R01 AI12211-02	38,011
ATKINS, ELISHA	STUDIES IN THE PATHOGENESIS OF FEVER	BM	2R01 AI01564-18	97,773
BARNETT, RUSSELL J.	RELATION OF FINE STRUCTURE TO BIOCHEMICAL FUNCTION	MBY	5R01 AM03688-15	85,493
BERNARD, GARY D.	STUDY OF OPTICAL INFORMATION-PROCESSING IN EYES	VISB	5R01 EY01140-03	14,119
BERSON, JEROME A.	GEOMETRY OF TRANSITION STATES	MCHB	5R01 GM16962-05	51,335
BERTINO, JOSEPH R.	MECHANISM OF ACTION OF FOLATE ANTAGONISTS	ET	2R01 CA08010-11	97,050
BERTINO, JOSEPH R.	SUPPORT FOR CANCER CHEMOTHERAPY CENTER	CAP	5P02 CA08341-10	644,220
BERTINO, JOSEPH R.	CANCER CENTER SUPPORT GRANT	CAP	3P01 CA16359-01S1	137,601
BIBER, THOMAS U.	SOLUTE AND WATER TRANSPORT ACROSS MEMBRANES	PHY	5R01 AM13484-06	57,028
BINDER, HENRY J.	INTESTINAL ELECTROLYTE TRANSPORT IN HEALTH AND DISEASE	GMA	5R01 AM14669-05	40,184
BITENSKY, MARK W.	MACROMOLECULAR REVERSIBLE INHIBITOR OF ADENYL CYCLASE	BIO	5R01 AM15016-05	49,897
BITENSKY, MARK W.	COORDINATED INTERACTION OF PLASMA MEMBRANE PROTEINS	BIO	2R01 CA13444-04	104,914
BLACK, FRANCIS L.	MEASLES VIRUS RECOMBINATION AND REACTIVATION	VR	5R01 AI00701-19	53,888
BLACK, FRANCIS L.	EPIDEMIOLOGIC RELATION OF MULTIPLE SCLEROSIS TO VIRUS	VR	5R01 AI12123-02	41,195
BOCKELMAN, CHARLES K.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07015-10	65,814
BODEL, PHYLLIS T.	CAUSE OF FEVER IN MALIGNANT DISEASES	PTHB	5R01 CA14655-02	70,420
BOUHUYS, AREND	SUPPORT FOR CENTER FOR THE STUDY OF LUNG DISEASE	SRC	5P17 HL14179-05	708,346
BOULPAEP, EMILE L.	FUNCTIONAL STRUCTURE OF RENAL TUBULE	PHY	5R01 AM13844-06	48,437
BRAVERMAN, IRWIN M.	ROLE OF MICROCIRCULATION IN CUTANEOUS DISORDERS	GMA	5R01 AM15739-04	25,047
BREAKEYFIELD, XANDRA O.	DEVELOPMENTAL MECHANISMS IN ADRENERGIC SYNAPTOGENESIS	NEUA	1R01 NS12105-01	77,285
BURROW, GERARD N.	REGULATION OF THYROIDAL METABOLISM BY PROTEIN KINASES	END	5R01 AM16878-02	31,376
BURROW, GERARD N.	STUDIES OF THYROGLOBULIN SYNTHESIS	END	5R01 AM17060-02	39,219
CANELLAKIS, EVANGELO S.	NUCLEIC ACID SYNTHESIS	BIO	5R01 CA04823-16	69,208
CANELLAKIS, EVANGELO S.	THE USE OF DOUBLE INTERCALATORS AS ANTICANCER AGENTS	BIO	5R01 CA15317-02	23,095
CAPIZZI, ROBERT L.	HOST-MEDIATED DETECTION OF MUTAGENS WITH MURINE CELLS	ET	5R01 CA14326-03	25,174
CARTER, DAVID M.	SUSCEPTIBILITY OF CUTANEOUS CELLS TO DNA INJURY BY UV	RAD	5R01 CA12496-05	41,008
CASALS-ARIET, JORDI	SUPPORT FOR WORLD REFERENCE CENTER FOR ARBOVIRUSES	VR	5R01 AI10984-04	55,205
CHAN, YUN L.	TRANSPORT OF LEVODOPA DERIVATIVES	PHRA	5R01 NS12051-02	17,517
CHANDLER, WILLIAM K.	ELECTRICAL AND CONTRACTILE PROPERTIES OF MUSCLE	PHY	5R01 NS07474-08	77,982
COHEN, LAWRENCE B.	OPTICAL STUDIES OF NEURON ACTIVITY AND ORGANIZATION	NEUB	5R01 NS08437-07	107,827
COHEN, MELVIN J.	PERIPHERAL AND CENTRAL STUDIES OF NEURONAL ORGANIZATION	PHY	5R01 NS08996-06	77,750
COLEMAN, JOSEPH E.	SYNTHESIS, STRUCTURE, AND FUNCTION OF METALLOENZYMES	BIO	5R01 AM09070-11	39,772
COLEMAN, JOSEPH E.	STRUCTURE AND FUNCTION OF DNA BINDING PROTEINS	BBCB	1R01 GM21919-01	52,317
COLLINS, KIM D.	STUDIES ON HORMONE METABOLIZING AND BINDING PROTEINS	MCHA	7R01 AM18368-01	12,045
COLLINS, KIM D.	STUDIES ON HORMONE METABOLIZING AND BINDING PROTEINS	MCHA	5R01 AM18368-02	13,927
COLLINS, WILLIAM F, JR.	A CENTER FOR ACUTE SPINAL CORD INJURY	NSPA	5P01 NS10174-03	861,934
CONE, ROBERT E.	MOLECULAR CHARACTERISTICS OF LYMPHOCYTE MEMBRANES	SSS	1R01 AI1257 J1	44,894
CONN, HAROLD O.	DISTAL SPLENORENAL VS PORTAL SYSTEMIC ANASTOMOSIS	SCYB	1R01 AM18137-01	41,364
COOPER, JACK R.	THE ROLE OF THIAMINE IN NERVOUS TISSUE	PHRA	2R01 NS08666-06A1	50,990
COOPER, JACK R.	CHOLINERGIC NERVE ENDING PARTICLES	PHRA	2R01 NS09836-04	47,968



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CONNECTICUT—Continued</b>				
CORNELIUS, EUGENE A.....	STUDIES OF IMMUNOLOGICALLY INDUCED TUMORS.....	IMB	5R01 CA15500-02	78,506
CREASEY, WILLIAM A.....	STUDIES ON ANTITUMOR AGENTS FROM PLANTS.....	ET	5R01 CA12317-04	24,154
CRONAN, JOHN E., JR.....	GENETIC APPROACHES TO REGULATION OF LIPID METABOLISM.....	MBG	5R01 A10186-05	42,199
CROTHERS, DONALD M.....	NEW APPROACHES TO CANCER CHEMOTHERAPY.....	BBCA	5R01 CA15583-02	56,083
CROTHERS, DONALD M.....	THE STRUCTURE AND REACTIONS OF NUCLEIC ACIDS.....	BIO	3R01 GM12589-10S1	7,613
CROTHERS, DONALD M.....	MACROMOLECULAR STRUCTURAL DYNAMICS.....	BBCA	1R01 GM21966-01	51,500
DIERS, DONNA.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05617-03	29,908
DOANE, WINIFRED W.....	GENETIC REGULATORY MECHANISM IN CELLULAR DIFFERENTIATION.....	GEN	5R01 GM18729-03	57,928
DONALDSON, ROBERT M., JR.....	BINDING AND TRANSPORT FUNCTIONS OF INTESTINAL MICROVILLI.....	GMA	5R01 AM17509-02	65,460
DOUGLAS, WILLIAM W.....	STIMULUS-SECRETION COUPLING: CHROMAFFIN AND OTHER CELLS.....	PHRA	2R01 NS09137-06	88,480
DOWNING, S EVANS.....	CHEMOSENSITIVE SYSTEMS IN SUDDEN INFANT DEATH.....	HED	5R01 HD07276-02	42,535
DWYER, JOHN M.....	CELLULAR IMMUNITY AND HUMAN DISEASE.....	IMB	5R01 A11785-02	46,036
EBBERT, ARTHUR, JR.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00125-12	935,211
EBBERT, ARTHUR, JR.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05358-14	255,345
EISENFELD, ARNOLD J.....	STUDY OF CONTRACEPTIVE RECEPTOR MECHANISMS.....	REB	5R01 HD08280-02	70,096
EISENSTADT, JEROME M.....	CYTOPLASMIC INHERITANCE IN CULTURED MAMMALIAN CELLS.....	GEN	1R01 GM21873-01	90,614
ENGELMAN, DONALD M.....	MOLECULAR STRUCTURE OF BIOLOGICAL MEMBRANES.....	BBCB	1R01 GM22256-01	38,420
ENGELMAN, DONALD M.....	ORGANIZATION OF CHOLESTERYL ESTERS IN ATHEROSCLEROSIS.....	BBCB	2R01 HL14111-04A1	41,765
EVANS, ALFRED S.....	E-B AND OTHER VIRUSES IN CONNECTIVE-TISSUE DISEASES.....	GMA	5R01 AM16030-02	40,746
FARQUHAR, MARILYN G.....	STUDIES ON SECRETION IN PITUITARY AND OTHER CELLS.....	CBY	5R01 AM17780-02	111,579
FELIG, PHILIP.....	AMINO ACIDS AND HORMONES IN GLUCONEOGENESIS AND OBESITY.....	MET	5R01 AM13526-06	60,007
FINCH, STUART C.....	BEHAVIOR OF HUMAN SICKLE CELLS IN AN ANIMAL MODEL.....	HEM	1R01 HL16285-01A2	70,078
FISCHER, JAMES J.....	RADIATION THERAPY AND BIOLOGY RESEARCH PROGRAM.....	CAP	5P02 CA06519-13	911,518
FISCHER, JAMES J.....	REGIONAL RADIATION THERAPY NETWORK DEMONSTRATION.....	CCG	1R18 CA17941-01	195,050
FIXMAN, MARSHALL.....	PROBLEMS IN THEORETICAL CHEMISTRY AND POLYMERS.....	BBCB	5R01 GM13556-11	75,779
FORBES, THOMAS R.....	COUNTY OF MIDDLESEX CORONERS' INQUISITIONS.....	SSS	1R01 LM02494-01	13,216
FRUTON, JOSEPH S.....	SPECIFICITY AND MECHANISM OF THYROID PEROXIDASE.....	BIO	5R01 AM15682-04	19,872
FRUTON, JOSEPH S.....	PROTEIN CONFORMATION AND ENZYME CATALYSIS.....	BIO	2R01 GM18172-05	66,706
GALL, JOSEPH G.....	THE ORGANIZATION OF ANIMAL CELL NUCLEI.....	MBY	2R01 GM12427-11	100,176
GAREN, ALAN.....	DEVELOPMENTAL DEFECTS IN DROSOPHILA MUTANTS.....	GEN	5R01 HD06461-04	70,028
GERSHON, RICHARD K.....	RESPONSE OF THYMUS-DERIVED CELLS TO ANTIGEN.....	IMB	2R01 A10497-04	66,090
GERSHON, RICHARD K.....	IMMUNE RESPONSES TO TUMOR GRAFTS.....	PTHB	2R01 CA08593-09	94,340
GERSHON, RICHARD K.....	CHARACTERIZATION OF LYMPHOID POPULATIONS IN ONCOGENESIS.....	IMB	5R01 CA14216-03	32,086
GIEBISCH, GERHARD H.....	CARDIOVASCULAR, METABOLIC ASPECTS OF MEMBRANE TRANSPORT.....	SSS	5P01 AM17433-02	670,014
GLASER, GILBERT H.....	NEUROLOGICAL RESEARCH CENTER (EPILEPSY).....	NSPB	3P01 NS06208-09A1S1	3,278
GLASER, GILBERT H.....	NEUROLOGICAL STUDY OF EPILEPSY.....	NSPB	5P01 NS06208-10	306,190
GLENN, WILLIAM W.....	REMOTE STIMULATION BY RADIO-FREQUENCY TRANSMISSION.....	SGYB	3R01 HL04651-15S1	18,625
GLENN, WILLIAM W.....	REMOTE STIMULATION BY RADIO-FREQUENCY TRANSMISSION.....	SGYB	2R01 HL04651-16	113,201
GOLDENBERG, IRA S.....	COOPERATIVE STUDY OF BREAST CANCER THERAPY.....	CCI	2R10 CA03360-18	131,469
GOLDSMITH, TIMOTHY H.....	VISUAL MECHANISMS.....	PHY	5R01 EY00222-15	55,569
GREENGARD, PAUL.....	METABOLIC BASIS OF NEURAL FUNCTION.....	PHRA	2R01 NS08440-07	71,655
HANDSCHUMACHER, ROBERT E.....	CANCER CHEMOTHERAPY PROGRAM.....	CAP	5P01 CA10748-08	704,413
HAYSLETT, JOHN P.....	CARDIOVASCULAR AND METABOLIC ASPECTS OF RENAL FUNCTION.....	GMB	5R01 AM18061-02	72,552
HIGGINS, JOAN A.....	BIOGENESIS OF CELLULAR MEMBRANES.....	MBY	5R01 GM20001-03	17,994
HODGE, LON D.....	BIOCHEMISTRY OF REGULATORY PROCESS IN SYNCHRONIZED CELLS.....	MBY	2R01 CA12229-06	63,217
HOFFMAN, JOSEPH F.....	ION TRANSPORT ACROSS EPITHELIAL MEMBRANES.....	MBY	5R01 AM12028-09	34,806
HOFFMAN, JOSEPH F.....	MEMBRANE TRANSPORT PROCESSES IN RED BLOOD CELLS.....	PHY	5R01 HL09906-10	88,542
HORSTMANN, DOROTHY M.....	CLINICAL VIROLOGY OF EPSTEIN BARR VIRUS INFECTIONS.....	SSS	5R01 A11611-02	113,408
HORSTMANN, DOROTHY M.....	RESPONSES TO RUBELLA VIRION AND SUBUNIT VACCINES.....	EDC	5R01 A11788-05	86,204
HORVATH, CSABA G.....	IMMOBILIZED CARBOXYPEPTIDASE G1 IN CANCER CHEMOTHERAPY.....	BIO	1R01 CA17245-01	49,263
HORVATH, CSABA G.....	LIQUID CHROMATOGRAPHY OF BIOLOGICAL SUBSTANCES.....	MCHB	1R01 GM20993-01A1	53,318
HOWARD-FLANDERS, PAUL.....	CROSS-LINKING OF NUCLEOPROTEINS BY RADIATION.....	RAD	2R01 GM11014-15	46,941
HUANG, GUEH-DJEN G.....	PATHOGENESIS AND EPIDEMIOLOGY OF LATENT SIMIAN VIRUSES.....	VR	5R01 A108648-07	77,621
JACOBY, ROBERT O.....	TRANSMISSIBLE ATYPICAL ILEAL HYPERPLASIA.....	BM	1R01 RR00945-01	62,243
JAMIESON, JAMES D.....	PROCESSING OF SECRETORY IGA IN THE MAMMARY GLAND.....	ALY	5R01 A12166-02	66,663
JAMIESON, JAMES D.....	CELL SECRETION AND MEMBRANE FORMATION IN THE PANCREAS.....	CBY	5R01 AM17389-02	66,300
JONAS, ALBERT M.....	STUDY OF TRANSMISSIBLE MURINE COLONIC HYPERPLASIA.....	SRC	5R26 CA15405-02	51,642
JONAS, ALBERT M.....	RESOURCE FOR STUDY OF LABORATORY ANIMAL DISEASES.....	AR	5P06 RR00393-08	170,425
JONAS, ALBERT M.....	A FIELD-LABORATORY UNIT FOR PRIMATE RESEARCH.....	PME	1P06 RR00849-01	100,500
KANKEL, DOUGLAS R.....	NERVOUS SYSTEM DEVELOPMENT AND SYNAPSE FORMATION.....	GEN	5R01 NS11788-02	42,704



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CONNECTICUT—Continued</b>				
KANKEL, DOUGLAS R.	ACETYLCHOLINESTERASE: GENETICS-NEUROBIOLOGY	GEN	1R01 NS12346-01	58,329
KANTOR, FRED S.	CELLULAR IMMUNITY IN VIRAL DISEASES	SSS	5R01 AI06706-08	32,306
KANTOR, FRED S.	INTERPLAY OF HUMORAL FACTORS IN CELLULAR IMMUNITY	ALY	5R01 AI11077-03	102,076
KESSEN, WILLIAM	STIMULUS SENSITIVITY OF OBESE-TENDING INFANTS	EXP	1R01 HD09073-01	21,247
KIDD, KENNETH K.	GENETICS OF HUMAN BEHAVIORAL DISORDERS: STUTTERING	GEN	5R01 NS11786-02	73,387
KIRCHNER, JOHN A.	STUDY CANCER OF THE LARYNX BY SERIAL SECTIONS	CMS	9R01 CA17022-09	30,330
KITAHATA, LUKE M.	ANESTHESIA AND THE NERVOUS SYSTEM	PHRA	3R01 NS09871-03S1	12,547
KITAHATA, LUKE M.	NEUROPHARMACOLOGY-ANESTHESIA AND THE NERVOUS SYSTEM	PHRA	2R01 NS09871-04	87,370
KOHORN, ERNEST I.	CELLULAR AND IMMUNOLOGIC STUDY OF OVARIAN CANCER	PTHB	1R01 CA16214-01	55,365
KONIGSBERG, WILLIAM	RELATION OF PROTEIN STRUCTURE TO BIOLOGICAL FUNCTION	PC	2R01 GM12607-11	122,186
LANDMESSER, LYNN T.	DEVELOPMENTAL AND TROPIC NEURAL INTERACTIONS	NEUB	5R01 NS10666-03	30,868
LENGYEL, PETER	INTERFERON, ANIMAL VIRUSES AND PROTEIN SYNTHESIS	VR	1R01 AI12320-01	78,210
LERNER, AARON B.	BIOLOGY OF NORMAL AND MALIGNANT MELANOCYTES	ET	5R01 CA04679-16	188,156
LIPSKY, SEYMOUR R.	CONTINUATION OF PHYSICAL SCIENCES INSTRUMENT FACILITY	MCWB	3P07 RR00356-08S1	112,511
LIVSTONE, ELLIOT M.	PROLIFERATIVE ABNORMALITIES IN CARCINOMA OF THE COLON	PTHB	5R01 CA13336-03	49,020
MACNAB, ROBERT M.	PRINCIPLES OF SENSORY RECEPTION AND MOTOR FUNCTION	BM	5R01 AI12202-02	30,977
MAGEE, PAUL T.	REGULATION OF MEIOSIS AND ASCUS DEVELOPMENT IN YEAST	GEN	5R01 AI11730-02	51,148
MAGEE, PAUL T.	MUTATIONS AFFECTING RNA POLYMERASES OF MAMMALIAN CELLS	GEN	5R01 GM21012-02	47,340
MALAWISTA, STEPHEN E.	BIOPHYSICAL MECHANISMS IN LEUKOCYTES AND MELANOCYTES	IMB	5R01 AM10493-10	126,965
MANUELIDIS, ELIAS E.	EXPERIMENTAL CREUTZFELDT-JAKOB DISEASE IN GUINEA PIGS	PTHA	1R01 NS12674-01	94,500
MANUELIDIS, LAURA M.	PATHOGENETIC DETERMINANTS OF HUMAN CNS TUMORS	PTHA	5R01 CA15044-02	25,785
MARCHESI, VINCENT T.	MEMBRANE PROTEINS AND TUMOR-SPECIFIC ANTIGENS	MBY	5R01 GM19929-03	86,350
MARKERT, CLEMENT L.	STUDY OF EMBRYONIC DEVELOPMENT	GEN	5R01 HD07741-02	55,066
MARSH, JOHN C.	EASTERN COOPERATIVE ONCOLOGY GROUP - CLINICAL STUDIES	CCI	2R10 CA15485-02	52,880
MARSH, JOHN C.	ANTICANCER DRUGS AND LEUKOCYTE PRECURSOR CELLS	ET	1R01 CA18341-01	38,075
MARVIN, DONALD A.	ONCOGENIC TRANSFORMATION AND THE CELL ENVELOPE	BBBC	2R01 CA13094-04	87,387
MC CALL, DOLLY	TRANSPLANTABLE CHEMICALLY INDUCED COLON CANCER IN RATS	SRC	5R26 CA15639-02	53,736
MC COLLUM, ROBERT W.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05443-14	110,796
MC GUIRE, JOSEPH S.	CONTROL OF NORMAL AND PSORIATIC EPIDERMAL CELL DIVISION	GMA	5R01 AM13929-05	56,493
MICHAEL, CHARLES R.	NEUROPHYSIOLOGY OF ALL-CONE VISION	VIS	5R01 EY00568-07	36,452
MILLER, I GEORGE, JR.	STUDIES OF E-B VIRUS	VR	2R01 CA12055-04	92,205
MILLER, WILLIAM H.	STRUCTURE AND FUNCTION OF EYES	SSS	2R01 EY00089-11	46,893
MILLER, WILLIAM H.	TRANSDUCTION AND NEURAL MECHANISMS IN THE RETINA	VISB	5R01 EY00764-04	54,763
MILSTONE, J HASKELL	THE THROMBOKINASE OF THE BLOOD AND FIBRINOLYSIS	HEM	5R01 HL03906-17	64,353
MITCHELL, MALCOLM S.	EFFECTS OF CHEMOTHERAPY ON TUMOR-SPECIFIC IMMUNITY	ET	2R01 CA13105-04	51,097
MOORE, PETER B.	RIBOSOME STRUCTURE AND FUNCTION	BBCA	2R01 AI09167-07	64,150
MULROW, PATRICK J.	ETIOLOGICAL FACTORS IN HYPERTENSION	END	2R01 HL12758-14	101,989
MULROW, PATRICK J.	ROLE OF PROSTAGLANDINS IN HYPERTENSION	CVB	5R01 HL15947-02	94,529
NEMERSON, YALE R.	ATHEROSCLEROSIS, COAGULATION AND THROMBOSIS	HEP	5P01 HL16126-02	329,108
NEUFELD, ARTHUR H.	MEDIATORS THAT REGULATE AQUEOUS HUMOR DYNAMICS	VISA	1R01 EY01470-01	57,782
NIEDERMAN, JAMES C.	PHARYNGEAL EXCRETION OF EB VIRUS	VR	5R01 AI08731-05	57,879
OSTFELD, ADRIAN M.	HEALTH AND PSYCHOSOCIAL IMPACT OF RELOCATION IN OLD AGE	DBR	5R01 HD05665-04	126,980
PALADE, GEORGE E.	RESEARCH CENTER ON CELLULAR MEMBRANES	MBY	3P17 GM21714-01S1	53,500
PALADE, GEORGE E.	RESEARCH CENTER ON CELLULAR MEMBRANES	MBY	3P50 GM21714-01S2	55,416
PALADE, GEORGE E.	LOCALIZATION OF PORE SYSTEMS IN CAPILLARY WALLS	CBY	5R01 HL17080-02	113,868
PAPERMASTER, DAVID S.	MEMBRANE BIOSYNTHESIS IN NORMAL AND DYSTROPHIC RETINA	VISB	2R01 EY00845-02	46,391
PINCUS, JONATHAN H.	THIAMINE AND DISORDERS OF BRAIN METABOLISM	NEUA	5R01 NS09622-04	44,958
POULSON, DONALD F.	STUDIES ON HEREDITARY ANDROCIDAL INFECTIONS	GEN	5R01 AI10467-04	49,022
POWLEY, TERRY L.	HYPOTHALAMIC CONTROL OF BODY WEIGHT AND FEEDING	EXP	2R01 AM15511-04	45,802
PRESTEGARD, JAMES H.	NMR INVESTIGATION OF VESICULAR MEMBRANES	BBBC	2R01 GM19035-04	36,957
PRICHARD, JAMES W.	NEURONAL EFFECTS OF CONVULSANT AND ANTICONVULSANT DRUGS	PHRA	5R01 NS08851-05	17,537
PRUSOFF, WILLIAM H.	IODODEOXYURIDINE, IODO-DNA, AND BIOLOGICAL ACTIVITY	PC	5R01 CA05262-15	81,288
PRUSOFF, WILLIAM H.	POTENTIAL ANTICANCER AND ANTIVIRAL BISUBSTRATE ANALOGS	ET	1R01 CA17019-01	43,875
RICHARDS, FRANK F.	STUDY OF POLYFUNCTIONAL ANTIBODY-COMBINING REGIONS	ALY	5R01 AI08614-08	78,119
RICHARDS, FREDERIC M.	STUDY OF PROTEINS IN SOLUTIONS INTERFACES AND SOLIDS	BBBC	5R01 GM12006-12	80,193
RITCHIE, J MURDOCH	STUDY OF MAMMALIAN C FIBERS	PHY	5R01 NS08304-08	68,973
RITCHIE, J MURDOCH	DEMYELINATING DISEASE-BIOPHYSICS OF NERVE DYSFUNCTION	NEUB	1R01 NS12327-01	76,828
ROSENBAUM, JOEL L.	SYNTHESIS AND ASSEMBLY OF MICROTUBULES	MBY	5R01 GM14642-08	46,704
ROSENBERG, LEON E.	TRANSPORT AND METABOLISM OF AMINO ACIDS AND HEXOSES	SSS	2R01 AM09527-10	89,434
ROSENBERG, LEON E.	TISSUE CULTURE STUDIES OF INBORN METABOLIC ERRORS	SSS	5R01 AM12579-06	114,615

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CONNECTICUT—Continued</b>				
ROSENBERG, LEON E.....	STUDY OF HUMAN GENETICS AND INHERITED DISEASE.....	SSS	5P01 GM20124-03	413,690
ROSENZWEIG, MARK R.....	ECONOMIC DETERMINANTS OF FARM FAMILY SIZE.....	POP	1R01 HD08687-01	38,249
RUDDLE, FRANK H.....	GENETIC ANALYSIS OF SOMATIC CELL POPULATIONS.....	GEN	5R01 GM09966-13	135,064
RUDDLE, FRANK H.....	STUDY OF INTERFERON SYSTEM OF HUMAN CELLS.....	GEN	5R01 GM19952-03	58,628
RUPP, W DEAN.....	STRUCTURE AND SYNTHESIS OF EPISOME DNA IN BACTERIA.....	MBC	5R01 GM18587-04	43,602
SACHS, JOHN R.....	PHYSIOLOGICAL ASPECTS OF MEMBRANE CATION TRANSPORT.....	HEM	5R01 AM13981-06	20,843
SAHA, SUBRATA.....	A NEW METHOD TO MEASURE THE RATE OF FRACTURE HEALING.....	AFY	1R01 AM18360-01	23,342
SARTORELLI, ALAN C.....	BIOCHEMICAL PHARMACOLOGY OF ANTINEOPLASTIC AGENTS.....	ET	5R01 CA02817-19	189,367
SASAKI, CLARENCE T.....	POSTNATAL RESPIRATORY DEVELOPMENT AS RELATED TO SIDS.....	CMS	1R01 HD09494-01	71,566
SAUNDERS, MARTIN.....	SOUTHERN NEW ENGLAND HIGH FIELD NMR FACILITY.....	MCHB	5P07 RR00798-02	69,352
SCHENKMAN, JOHN B.....	INDUCTION AND MODE OF ACTION OF HEPATIC DRUG OXIDASE.....	ET	5R01 GM17021-06	67,922
SCOTT, ALASTAIR I.....	BROAD-SPECTRUM AND ANTITUMOR ANTIBIOTICS-BIOSYNTHESIS.....	MCHB	1R01 AI12670-01	85,892
SCOTT, ALASTAIR I.....	PORPHYRIN AND CORRINOID BIOSYNTHESIS.....	MCHA	5R01 AM17014-02	104,500
SCOTT, ALASTAIR I.....	BIOSYNTHESIS & BIOGENETIC SYNTHESIS OF INDOLE ALKALOIDS.....	NSS	5R01 CA11095-07	81,133
SEARS, MARVIN L.....	PHYSIOLOGIC STUDIES OF INTRAOCULAR PRESSURE.....	VIS	3R01 EY00237-13S1	1,259
SEARS, MARVIN L.....	PHYSIOLOGIC STUDIES OF INTRAOCULAR PRESSURE.....	VIS	5R01 EY00237-14	138,144
SEARS, MARVIN L.....	STUDY OF VISION.....	VSN	5P01 EY00785-04	160,290
SHAYWITZ, BENNETT A.....	ONTOGENY OF BRAIN CATECHOLAMINES AND HYPERACTIVITY.....	NEUB	1R01 NS12384-01	84,684
SHEAHAN, DANIEL G.....	BLOOD GROUP SUBSTANCES AND GASTROINTESTINAL NEOPLASIA.....	PTHB	5R01 AM15767-03	17,481
SHEPHERD, GORDON M.....	INTEGRATIVE MECHANISMS OF CORTICAL NEURONS.....	PHY	2R01 NS07609-08	69,001
SHOPE, ROBERT E.....	CONTROL OF ARBOVIRUS INFECTIONS OF MAN.....	AIRC	3P01 AI11132-03S1	6,350
SHOPE, ROBERT E.....	CONTROL OF ARBOVIRUS INFECTIONS OF MAN.....	SSS	5P01 AI11132-04	176,243
SKEEL, ROLAND T.....	IMMUNOTHERAPY OF ACUTE LEUKEMIA.....	ET	1R01 CA17044-01	28,573
SLAYMAN, CAROLYN W.....	GENETIC STUDY OF ION TRANSPORT IN NEUROSPORA.....	GEN	5R01 GM15761-07	69,830
SLAYMAN, CLIFFORD L, JR.....	MEMBRANE POTENTIAL AND ACTIVE TRANSPORT IN NEUROSPORA.....	PHY	5R01 GM15858-08	75,006
SOLL, DIETER G.....	RELATION OF STRUCTURE TO FUNCTION OF TRANSFER RNA.....	BIO	5R01 GM15401-07	55,360
SOLL, DIETER G.....	BIOCHEMISTRY OF EARLY DEVELOPMENT IN DROSOPHILA.....	CBY	1R01 HD09167-01	55,283
SPEROFF, LEON.....	PROSTAGLANDINS AND TOXEMIA OF PREGNANCY.....	REB	1R01 HD09023-01	65,830
SPIRO, HOWARD M.....	BIOPHYSICAL PRINCIPLES OF PERISTALTIC PHENOMENA.....	GMA	5R01 AM16021-04	31,116
STEITZ, JOAN A.....	CONTROL OF GENE EXPRESSION IN VIRAL INFECTION.....	SSS	5R01 AI10243-05	66,667
STEITZ, THOMAS A.....	STRUCTURE BASIS OF ENZYME ACTION, SPECIFICITY & CONTROL.....	BBCB	3R01 GM18268-04S1	10,791
STOWE, BRUCE B.....	METABOLISM AND ANALYSIS OF GOITER-INDUCING INDOLES.....	BIO	5R01 AM16214-15	30,197
STRYER, LUBERT.....	CONFORMATIONAL ASPECTS OF VISUAL EXCITATION.....	VISB	5R01 EY01070-02	54,085
STRYER, LUBERT.....	OPTICAL STUDIES OF PROTEIN STRUCTURE AND FUNCTION.....	BBCA	5R01 GM16708-07	116,666
STURTEVANT, JULIAN M.....	PHYSICOCHEMICAL STUDIES OF BIOCHEMICAL REACTIONS.....	BBCB	2R01 GM04725-19	87,622
SUMMERS, WILLIAM C.....	GENETIC STUDY OF ANIMAL VIRUSES.....	GEN	5R01 CA13515-03	57,051
TANAKA, KAY.....	BIOCHEMICAL STUDIES OF HEPATIC ENCEPHALOPATHY.....	GMA	5R01 AM17453-03	50,709
THACH, WILLIAM T, JR.....	TIMING AND CODING OF CEREBELLAR OUTPUT.....	NEUA	2R01 NS09884-04	56,984
TIGNOR, GREGORY H.....	RABIES SEROGROUP VIRUS INFECTIONS: IMMUNOPATHOLOGY.....	VR	1R01 AI12541-01	67,093
TRENCH, ROBERT K.....	MACROMOLECULAR SYNTHESIS IN CYANOPHORA PARADOXA.....	CBY	5R01 GM20177-02	23,365
TRINKAUS, JOHN P.....	CONTACT BEHAVIOR OF DEVELOPING AND TRANSFORMED CELLS.....	MBY	5R01 HD07137-02	53,005
TSIEN, RICHARD W.....	ELECTROPHYSIOLOGY OF HEART MUSCLE/EFFECTS OF EPINEPHRINE.....	PHRA	5R01 HL13306-05	68,643
WAKSMAN, BYRON H.....	THE BEHAVIOR OF CELL SUSPENSIONS IN VITRO AND IN VIVO.....	IMB	3R01 AI06112-11S1	5,000
WAKSMAN, BYRON H.....	THE BEHAVIOR OF CELL SUSPENSIONS IN VITRO AND IN VIVO.....	IMB	5R01 AI06112-12	70,618
WAKSMAN, BYRON H.....	SPECIFICITY AND INFORMATION TRANSFER IN SENSITIVITY.....	IMB	3R01 AI06455-10S1	6,000
WAKSMAN, BYRON H.....	SPECIFICITY AND INFORMATION TRANSFER IN SENSITIVITY.....	IMB	5R01 AI06455-11	69,416
WAKSMAN, BYRON H.....	PROPAGATION OF THYMUS-DERIVED LYMPHOCYTE LINES.....	IMB	1R01 CA16885-01	56,598
WALLIS, ROBERT C.....	COLONIAL BATS AS OVERWINTERING RESERVOIR OF EEE VIRUS.....	VR	5R01 AI11927-02	25,167
WALLIS, ROBERT C.....	BIOLOGY OF WEE VIRUS IN MOSQUITOES OF NORTHEAST U.S.....	TMP	1R01 AI12695-01	30,483
WARD, DAVID C.....	USE OF FLUORESCENT NUCLEOTIDE PHOTO-AFFINITY PROBES.....	BBCA	5R01 GM20230-03	33,239
WARSHAW, JOSEPH B.....	CELLULAR ENERGY METABOLISM DURING FETAL DEVELOPMENT.....	MET	2R01 HD08293-02	71,202
WASSERMAN, HARRY H.....	SINGLET OXYGEN REACTIONS WITH ORGANIC SUBSTRATES.....	MCHA	2R01 GM13854-09	44,209
WATERMAN, TALBOT H.....	SENSORY MECHANISMS IN VISUAL ORIENTATION.....	VIS	5R01 EY00405-08	76,934
WEINMAN, DAVID, II.....	THE PRIMATE TRYPAOSOMIASIS OF ASIA.....	TMP	5R01 AI09888-05	38,215
WEISSMAN, SHERMAN M.....	PROGRAM ON THE MOLECULAR BASIS OF VIRAL TRANSFORMATION.....	CAK	5P01 CA16038-02	783,940
WEISSMAN, SHERMAN M.....	STRUCTURAL STUDIES ON PROTEINS SPECIFIED BY SV40.....	VR	5R01 CA16106-02	45,517
WHITE, AUGUSTUS A.....	QUANTITATIVE BIOMECHANICAL STUDY OF FRACTURE REPAIR.....	SGYB	5R01 AM16031-03	107,690
WILLIAMS, ROBLEY C, JR.....	SUBUNIT ASSOCIATION OF HUMAN HEMOGLOBINS.....	BBCA	5R01 HL12901-06	42,662
WRIGHT, FRED S.....	CELLULAR MECHANISMS OF RENAL POTASSIUM EXCRETION.....	GMB	5R01 AM14423-05	42,560
WRIGHT, HASTINGS K.....	INTESTINAL ABSORPTION AFTER BOWEL RESECTION.....	SGYA	5R01 AM17362-02	16,505

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CONNECTICUT—Continued</b>				
WYCKOFF, HAROLD W.....	X-RAY ANALYSIS OF PROTEIN STRUCTURE AND FUNCTION.....	BBCB	5R01 GM10025-13	101,207
WYSHAK, GRACE.....	TWINNING AMONG TWINS AND THEIR RELATIVES.....	EDC	5R01 GM11803-10	80,025
YU, ROBERT K.....	SPHINGOLYCOLIPIDS IN NORMAL AND M. SCLEROSIS BRAINS.....	NEUA	1R01 NS11853-01	37,980
ZIEGLER, FREDERICK E.....	SYNTHETIC STUDIES OF CYTOTOXIC LACTONES.....	MCHA	1R01 CA16432-01	65,848
ZIGLER, EDWARD F.....	COGNITION AND MOTIVATION IN RETARDED INDIVIDUALS.....	HDMR	5P01 HD03008-08	303,748
ZIGLER, EDWARD F.....	COGNITION AND MOTIVATION IN RETARDED INDIVIDUALS.....	HDMR	2P01 HD03008-09	246,953
ORGANIZATION TOTAL	229 21,889,851			
<b>NEW LONDON</b>				
<b>CONNECTICUT COLLEGE ZIP CODE 06320</b>				
COBB, JEWEL P.....	MELANOGENESIS AND GROWTH OF PIGMENT CELLS IN VITRO.....	PTHB	2R01 CA11793-06	37,144
ORGANIZATION TOTAL	1 37,144			
<b>NORWALK</b>				
<b>NORWALK HOSPITAL ZIP CODE 06856</b>				
FLOCH, MARTIN H.....	COLON CARCINOMA, DIET AND THE MICROFLORA.....	EDC	1R01 CA16090-01	48,760
ORGANIZATION TOTAL	1 48,760			
<b>SOUTHBURY</b>				
<b>CONNECTICUT STATE DEPARTMENT OF HEALTH—SOUTHBURY TRAINING SCHOOL ZIP CODE 06488</b>				
BREG, W ROY.....	CYTOGENETIC STUDIES IN MENTAL RETARDATION.....	GEN	5R01 HD00339-15	36,961
ORGANIZATION TOTAL	1 36,961			
<b>STORRS</b>				
<b>UNIVERSITY OF CONNECTICUT ZIP CODE 06268</b>				
BOBBITT, JAMES M.....	CHEMICAL STUDIES OF POTENTIAL ANTICANCER AGENTS.....	MCHB	5R01 CA10494-08	35,106
CHOVNIC, ARTHUR.....	GENETIC STUDIES IN DROSOPHILA MELANOGASTER.....	SSS	2R01 GM09886-14	135,349
CLARK, HUGH.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07014-10	51,092
DENENBERG, VICTOR H.....	CONSEQUENCES OF INFANT RISK FACTORS.....	SSS	1R01 HD08195-01A2	169,183
EATON, HAMILTON D.....	HYPO- AND HYPERVITAMINOSIS A.....	NTN	2R01 NS02108-16	27,700
EDWARDS, JOHN M.....	ANTINEOPLASTIC PRINCIPLES.....	MCHA	5R01 CA15230-02	10,903
FINNERTY, VICTORIA M.....	REGULATION OF GENE EXPRESSION IN DROSOPHILA.....	GEN	5R01 GM20906-02	57,959
GIACOBINI, EZIO.....	LOCALIZATION & METABOLISM IN THE CENTRAL NERVOUS SYSTEM.....	NEUB	1R01 NS11430-01A1	45,850
GIACOBINI, EZIO.....	CHEMISTRY AND PHARMACOLOGY OF SYMPATHETIC GANGLIA.....	NEUB	5R01 NS11496-02	28,893
GINSBURG, BENSON E.....	SPF MOUSE COLONY FOR RESEARCH IN BEHAVIORAL GENETICS.....	AR	5P06 RR00602-04	35,546
GOETINCK, PAUL F.....	MOLECULAR BASIS OF NORMAL AND MUTANT LIMB DEVELOPMENT.....	SSS	1R01 HD09174-01	99,368
GOLDMAN, BRUCE D.....	REGULATION OF PITUITARY-GONADAL HORMONE SECRETION.....	REB	2R01 HD05481-04	55,063
HEYWOOD, STUART M.....	MOLECULAR CONTROLS IN MUSCLE DIFFERENTIATION.....	MBY	5R01 HD03316-07	82,845
KEGELES, GERSON.....	DIFFUSION IN COUPLED SYSTEMS.....	BBCA	1R01 GM21915-01	52,981
KHAIRALLAH, EDWARD A.....	STARVATION AND REGULATION OF PROTEIN DEGRADATION.....	MET	5R01 AM15919-03	42,554
LANGNER, RONALD O.....	LIPID FLUX AND COLLAGEN SYNTHESIS IN ATHEROSCLEROSIS.....	NTN	5R01 HL15478-03	34,929
LUCAS-LENARD, JEAN M.....	TRANSLATIONAL CONTROL MECHANISMS.....	BIO	2R01 CA12144-04	57,100
MARCUS, PHILIP I.....	STUDY OF GENETICS.....	CAP	5P01 CA14733-03	167,337
MUGHAINI, ENRICO.....	DEVELOPMENTAL MORPHOLOGY AND SYNAPTOGENESIS.....	NEUB	5R01 NS09904-04	109,381
PILAR, GUILLERMO R.....	GANGLIONIC SYNAPTIC TRANSMISSION.....	NEUB	5R01 NS10338-04	80,568
ROMANO, ANTONIO H.....	SUGAR TRANSPORT AND MALIGNANT TRANSFORMATION.....	CBY	5R01 CA14274-03	33,740
SACHS, BENJAMIN D.....	ANALYSIS OF MASCULINE BEHAVIOR.....	EXP	1R01 HD08933-01A1	35,649
SAMULSKI, EDWARD T.....	NMR RELAXATION IN POLYPEPTIDE LIQUID CRYSTALS.....	BBCB	5R01 AM17497-02	28,299
SCHUSTER, TODD M.....	BIOPHYSICAL STUDIES OF VIRUS ASSEMBLY.....	BBCA	5R01 AI11573-03	65,949
SCHUSTER, TODD M.....	MECHANISM OF LIGAND BINDING TO HEMOGLOBIN.....	BBCA	5R01 HL17494-05	71,915
SCHWARTING, ARTHUR E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1R01 RR05743-01	22,912
SOMES, RALPH G, JR.....	REGISTRY OF SPECIALIZED GENETIC STOCKS.....	AR	2P06 RR00529-07	6,003
SPEYER, JOSEPH F.....	MOLECULAR MECHANISMS OF INFORMATION TRANSFER.....	PC	5R01 GM15697-08	68,361
STEPITA-KLAUCO, MATEJ.....	THE PHYSIOLOGICAL ROLE OF PIPERIDINE IN CNS.....	NEUB	5R01 NS11716-02	26,236
STEPITA-KLAUCO, MATEJ.....	PIPERIDINE AND SLEEP.....	NEUB	1R01 NS12482-01	13,271



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CONNECTICUT—Continued</b>				
STRATFORD, EUGENE S.....	HYPOCHOLESTEREMIC DERIVATIVES OF STYRYLACETIC ACID.....	MCHA	5R01 HL14950-03	20,807
STUART, JAMES D.....	HYDROXYCHLOROBIPHENYLS-DEGRADATION PRODUCTS OF PCBS.....	MCHB	5R01 ES01056-02	18,437
WYAND, D STUART.....	ANIMAL FACILITIES IMPROVEMENT.....	AR	1P06 RR00924-01	138,942
YPHANTIS, DAVID A.....	SELF-ASSOCIATION OF INSULIN.....	BBCB	1R01 AM18001-01	62,027
ORGANIZATION TOTAL	34	1,992,255		
<b>WEST HARTFORD</b>				
UNIVERSITY OF HARTFORD	ZIP CODE 06117			
BECK, ANN F.....	SCIENCE, MEDICINE AND MODERNIZATION IN EAST AFRICA.....	SSS	2R01 LM01803-02	10,362
ORGANIZATION TOTAL	1	10,362		
STATE TOTAL	361	29,164,299		
<b>DELAWARE</b>				
<b>DOVER</b>				
DELAWARE STATE COLLEGE	ZIP CODE 19901			
FERGUSON, THOMAS.....	RESEARCH IN RADIATION PROTECTION AND DRUG ANALYSIS.....	GRS	5S06 RR08011-04	80,084
ORGANIZATION TOTAL	1	80,084		
<b>NEWARK</b>				
UNIVERSITY OF DELAWARE	ZIP CODE 19711			
BERGELIN, OLAF P.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07016-02	30,840
BOORD, ROBERT L.....	PROJECTION OF LATERAL-LINE NERVES OF AMPHIBIA.....	CMS	5R01 NS11272-02	22,427
COLMAN, ROBERTA F.....	EFFECT OF COENZYMES ON ENZYME STRUCTURE AND FUNCTION.....	PC	5R01 AM17552-03	80,048
COLMAN, ROBERTA F.....	AFFINITY LABELS OF NUCLEOTIDE SITES IN DEHYDROGENASES.....	BIO	5R01 GM21200-02	34,600
DENNIS, DON.....	SURFACE ASYMMETRY AND IONIC TRANSPORT IN LIPID BILAYERS.....	BBCB	5R01 GM19886-02	8,433
GRANDA, ALLEN M.....	PROCESSING OF VISUAL INFORMATION.....	VISB	9R01 EY01540-07	63,085
PENE, JACQUES J.....	REGULATORY MECHANISMS IN VIRUS DEVELOPMENT.....	VR	2R01 AI11868-02	57,453
WHITE, HAROLD B, III.....	ROLE OF GLYCEROL-3-P DEHYDROGENASE IN LIPID METABOLISM.....	BIO	5R01 AM16740-03	23,027
WHITE, HAROLD B, III.....	STUDY OF THE TRANSPORT OF VITAMINS ACROSS MEMBRANES.....	BIO	5R01 GM19620-03	25,440
WRISTON, JOHN C, JR.....	PROPERTIES OF GLYCOSYLATED E. COLI ASPARAGINASE.....	SSS	1R01 CA16801-01	60,764
ORGANIZATION TOTAL	10	406,117		
<b>WILMINGTON</b>				
WILMINGTON MEDICAL CENTER	ZIP CODE 19899			
CANNON, NORMAN L.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	1P01 CA17093-01	93,338
FRELICK, ROBERT W.....	COOPERATIVE CLINICAL TRIALS - CENTRAL ONCOLOGY GROUP.....	CCI	5R10 CA14678-03	54,045
FRELICK, ROBERT W.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	3P01 CA14813-01S1	49,810
ORGANIZATION TOTAL	3	197,193		
STATE TOTAL	14	683,394		
<b>DIST OF COL</b>				
<b>WASHINGTON</b>				
AEROSPACE MEDICAL ASSOCIATION	ZIP CODE 20001			
BENFORD, ROBERT J.....	THE HERITAGE OF AVIATION MEDICINE.....	BCM	1R01 LM02656-01	5,500
ORGANIZATION TOTAL	1	5,500		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>DIST OF COL—Continued</b>				
<b>AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE      ZIP CODE 20036</b>				
PEARLMAN, SHOLOM .....	PROMOTING NEW BASIC RESEARCH ON CUTTING IN DENTISTRY .....	NSS	1R13 DE04159-01	2,506
ORGANIZATION TOTAL	1      2,506			
<b>AMERICAN INSTITUTES FOR RESEARCH      ZIP CODE 20016</b>				
FRIEDMAN, HERBERT L. ....	CONTRACEPTION, ABORTION AND COUPLE DECISION-MAKING .....	POP	5R01 HD07268-02	60,052
ORGANIZATION TOTAL	1      60,052			
<b>AMERICAN NATIONAL RED CROSS      ZIP CODE 20006</b>				
GREENWALT, TIBOR J. ....	STUDIES OF BLOOD GROUP ANTIGENS AND ANTIBODIES .....	HEM	2R01 HL11154-09	76,989
JAMIESON, GRAHAM A. ....	MEMBRANE GLYCOPROTEINS OF PLATELETS AND LEUKOCYTES .....	HEM	5R01 AI09017-07	55,735
JAMIESON, GRAHAM A. ....	SUPPORT FOR NATIONAL FRACTIONATION CENTER .....	HEM	5R01 HL13881-05	78,264
JAMIESON, GRAHAM A. ....	ROLE OF PLATELET MEMBRANES IN HEMOSTASIS .....	HEM	2R01 HL14697-04	80,833
JAMIESON, GRAHAM A. ....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05737-04	38,587
MAZZUR, SCOTT R. ....	GENETIC AND CULTURE STUDIES OF AUSTRALIA ANTIGEN .....	GEN	1R01 GM21736-01	6,095
PRÄHL, JAMES W. ....	STRUCTURAL BASIS OF THE FUNCTIONS OF HUMAN COMPLEMENT .....	ALY	1R01 AI12098-01	62,132
TRIANAPHYLLOPOULOS, DEMETRIOS. ....	STUDIES ON FIBRINOGEN AND FIBRIN DERIVATIVES .....	HEM	3R01 HL13388-05S1	7,082
ORGANIZATION TOTAL	8      405,717			
<b>AMERICAN PHARMACEUTICAL ASSOCIATION      ZIP CODE 20037</b>				
LOO, TI L. ....	SYMPOSIUM ON PHARMACOKINETIC MODELING OF ANTICANCER DRUG .....	NSS	1R13 CA17440-01	2,000
ORGANIZATION TOTAL	1      2,000			
<b>AMERICAN SOCIETY FOR PHOTOBIOLOGY      ZIP CODE 20016</b>				
SMITH, KENDRIC C. ....	CONFERENCE: AGING, CARCINOGENESIS, RADIATION BIOLOGY .....	RAD	1R13 CA17092-01	6,000
ORGANIZATION TOTAL	1      6,000			
<b>AMERICAN UNIVERSITY      ZIP CODE 20016</b>				
BREYERE, EDWARD J. ....	THE MATERNAL-FETAL ALLOGRAFT RELATION .....	IMB	5R01 CA05660-15	92,540
ORGANIZATION TOTAL	1      92,540			
<b>CATHOLIC UNIVERSITY OF AMERICA      ZIP CODE 20017</b>				
ABERHART, DONALD J. ....	SYNTHESIS OF VITAMIN D3 METABOLITES .....	MCHA	5R01 AM17057-02	21,480
ABERHART, DONALD J. ....	STEREOCHEMISTRY OF CYSTEINE BIOSYNTHESIS FROM SERINE .....	MCHA	5R01 GM18872-04	16,065
ATABEK, BULENT H. ....	FLOW FIELD IN AORTA AND ITS MAJOR BRANCHES .....	CVA	5R01 HL12083-08	55,580
HUNT, JOHN B. ....	ACTIVE SITE IDENTIFICATION IN METALLOENZYMES .....	BIO	5R01 GM20378-02	35,534
MC MANUS, FREDERICK R. ....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	NSS	5S05 RR07123-07	24,117
ROBERTS, JERRY H. ....	A STUDY OF DNA AND HISTONE EFFECTS ON ENZYME ACTIVITY .....	BIO	1R01 GM22152-01	43,658
VAISHNAV, RAMESH N. ....	LOCAL MECHANICAL PROPERTIES OF THE AORTIC TISSUE .....	CVB	5R01 HL15270-03	34,203
YOUNISS, JAMES. ....	A DEVELOPMENTAL EVALUATION OF LOGICAL OPERATIONS .....	DBR	3R01 HD02026-09S1	4,710
ZON, GERALD. ....	SYNTHESIS AND STEREOCHEMISTRY OF NEW ANTICANCER DRUGS .....	MCHB	5R01 CA16158-02	24,974
ZON, GERALD. ....	STEREOCHEMISTRY OF CYCLOPHOSPHAMIDE METABOLISM .....	MCHB	1R01 CA17421-01	29,547
ORGANIZATION TOTAL	10      289,868			
<b>CHILDREN'S HOSPITAL NATIONAL MEDICAL CENTER      ZIP CODE 20009</b>				
BARNET, ANN B. ....	SENSORY-EVOKED EEG AND BEHAVIORAL RESPONSE IN CHILDREN .....	CMS	5R01 HD02296-10	120,427
HOUCK, JOHN C. ....	IMMUNOSUPPRESSION OF GRAFT REJECTION BY CHALONE .....	SGYB	5R01 AM17167-02	83,182
HOUCK, JOHN C. ....	SPECIFIC MITOTIC INHIBITION OF LEUKEMIC LYMPHOCYTES .....	PHRB	3R01 CA12743-03S1	27,172
HOUCK, JOHN C. ....	SPECIFIC INHIBITION OF HUMAN FIBROBLAST PROLIFERATION .....	PTHB	5R01 CA14484-02	75,793
LEIKIN, SANFORD L. ....	COOPERATIVE STUDY OF CHILDREN'S CANCER .....	CCI	2R10 CA03888-18	75,152
LEIKIN, SANFORD L. ....	COOPERATIVE STUDY OF LEUKEMIA (PLATELETS) .....	CCI	5R10 CA11988-19	56,519
LEIKIN, SANFORD L. ....	LYMPHOCYTOTOXICITY IN NEUROBLASTOMA .....	PTHA	5R01 CA15566-02	65,458
LEIKIN, SANFORD L. ....	HORMONAL CHANGES IN CHILDREN WITH SICKLE CELL DISEASE .....	END	1R01 HD08574-01	38,950
PARROTT, ROBERT H. ....	NEW VIRUSES IN RELATION TO CLINICAL DISEASE .....	VR	5R01 AI01528-19	86,278
PARROTT, ROBERT H. ....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN .....	CLR	2M01 RR00284-09	328,406
PARROTT, ROBERT H. ....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05515-13	75,494
ROSS, SYDNEY .....	NEW METHODS IN RAPID DIAGNOSIS OF MENINGITIS .....	BM	1R01 NS12421-01	52,041

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>DIST OF COL—Continued</b>				
ORGANIZATION TOTAL	12	1,084,872		
<b>DISTRICT OF COLUMBIA BOARD OF HIGHER EDUCATION—FEDERAL CITY COLLEGE ZIP CODE 20005</b>				
MACK, JULIUS L.....	ENVIRONMENTAL CARCINOGENS & OTHER BIOMEDICAL PROBLEMS.....	GRS	5506 RR08005-04	111,112
ORGANIZATION TOTAL	1	111,112		
<b>GALLAUDET COLLEGE ZIP CODE 20002</b>				
PICKETT, JAMES M.....	PERCEPTION OF COMPLEX AUDITORY STIMULI BY THE DEAF.....	CMS	5R01 NS05464-11	89,827
ORGANIZATION TOTAL	1	89,827		
<b>GEORGE WASHINGTON UNIVERSITY ZIP CODE 20006</b>				
ALBERT, ERNEST N.....	EFFECTS OF STEROIDS AND PREGNANCY ON ARTERIES AND VEINS.....	PTHA	5R01 HL12557-07	41,478
ARMALY, MANSOUR F.....	COMPARATIVE STUDY OF GLAUCOMA.....	VIS	5R01 EY00692-05	51,836
BAILEY, J MARTYN.....	PROSTAGLANDIN SYNTHESIS IN TRANSFORMED CELLS.....	PC	1R01 CA15356-01A1	58,470
BAILEY, J MARTYN.....	LIPID METABOLISM IN CULTURED CELLS.....	MET	2R01 HL05062-14A2	57,143
BRADLEY, EILEEN W.....	LATE EFFECTS OF FAST NEUTRONS ON CORD-BRAIN-LUNG.....	SSS	1R01 CA18143-01	459,031
CORNFIELD, JEROME.....	MULTIPARAMETER METHODS FOR CARDIOVASCULAR RESEARCH.....	EDC	5R01 HL15191-04	90,914
DOBBINS, WILLIAM O, III.....	MORPHOLOGY OF ABSORPTION AND MALABSORPTION.....	GMA	3R01 AM13725-06S1	14,356
DOBBINS, WILLIAM O, III.....	COLONIC CANCER IN ULCERATIVE COLITIS.....	SRC	1R26 CA17776-01	98,089
DRUM, BRUCE A.....	ROLES OF TONIC AND PHASIC NEURAL SYSTEMS IN VISION.....	VISB	1R01 EY01672-01	52,145
EDWARDS, GORDON S.....	CARCINOGEN EFFECTS ON NUCLEAR PROTEINS.....	PTHB	5R01 CA14784-02	33,379
FEFFER, JAMES J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05359-14	148,885
FINKELSTEIN, JAMES D.....	SULFUR AMINO ACID METABOLISM IN MAMMALS.....	MET	5R01 AM13048-07	30,604
GAIL, DOROTHY B.....	IN VIVO SECRETION OF DIPALMITOYL LECITHIN BY LUNG.....	YIP	1R23 HL18446-01	39,245
GALLO, LINDA L.....	MECHANISM & INHIBITION OF CHOLESTEROL ABSORPTION.....	MET	1R01 AM17269-01A2	42,356
HOLLINSHEAD, ARIEL C.....	CM1 TO BLADDER CANCER TAA IN VIVO AND IN VITRO.....	SRC	1R26 CA17444-01	58,676
JACKSON, MICHAEL J.....	INTESTINAL TRANSPORT OF SHORT CHAIN FATTY ACIDS.....	PHY	2R01 AM13240-07	21,713
JOSEPH, WILLIAM L.....	MEMBRANE LUNG SUPPORT IN MASSIVE PULMONARY EMBOLUS.....	SGYB	1R01 HL16143-01A1	46,874
KIND, PHYLLIS D.....	GS ANTIGEN IN PROSTATIC CANCER.....	SRC	1R26 CA17208-01	41,682
KLUBES, PHILIP.....	SYNERGISM DURING COMBINATION CANCER CHEMOTHERAPY.....	ET	1R01 CA17601-01	66,966
KOERING, MARILYN J.....	ELECTRON MICROSCOPIC STUDIES OF OVARIAN STEROID CELLS.....	REB	3R01 HD03087-06S1	4,519
LEONARD, FRED.....	MAXILLOFACIAL MATERIALS.....	DEN	5R01 DE03860-02	39,170
MAIER, JOHN G.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	5P01 CA15667-02	38,332
MANTEL, NATHAN.....	CANCER EPIDEMIOLOGY: STATISTICAL METHODS.....	EDC	3R01 CA15686-01S1	31,207
MASSARO, DONALD J.....	THE LUNGS LINING LAYER: SYNTHESIS AND SECRETION.....	CVA	5R01 HL16031-02	60,070
MC GOWAN, LARRY.....	GYNECOLOGIC ONCOLOGY GROUP.....	CCI	2R10 CA13446-02	57,048
MC GOWAN, LARRY.....	EPIDEMIOLOGIC STUDY OF PRIMARY CANCER OF THE OVARY.....	EDC	5R01 CA14941-02	47,880
O'REILLY, SEAN.....	THE PHYSIOLOGY OF CU AND ZINC IN WILSON'S DISEASE.....	GMA	3R01 AM14784-03S1	15,545
OLSON, MARK D.....	THE FINE STRUCTURAL DEVELOPMENT OF BRUCH'S MEMBRANE.....	VISA	1R01 EY01511-01	30,256
PERIMAN, PHILIP D.....	HYBRID CELL STUDIES OF MALIGNANCY.....	VR	5R01 CA13851-03	53,128
PIPBERGER, HUBERT V.....	DIGITAL COMPUTER ANALYSIS OF THE ELECTROCARDIOGRAM.....	COM	5R01 HL15047-04	294,858
REBA, RICHARD C.....	SEMISYNTHETIC BLEOMYCINS: SYNTHESIS & CHARACTERIZATION.....	MCHB	7R01 CA18661-01	34,462
REBA, RICHARD C.....	CLINICAL EVALUATION OF RADIOLABELED BLEOMYCIN.....	RAD	1R01 CA18674-01	56,606
REBA, RICHARD C.....	BIOLOGIC TRACERS LABELED WITH GAMMA EMITTING ISOTOPES.....	RAD	1R01 CA18675-01	55,407
ROGERS, CHARLES C.....	PRELIMINARY STUDIES FOR NEUTRON CANCER THERAPY TRIAL.....	CAP	7P01 CA17465-01	333,829
SOLOMON, HENRY.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07019-10	45,831
VAHOUNY, GEORGE V.....	CHOLESTEROL ESTERASE REGULATION OF STEROIDOGENESIS.....	END	5R01 AM17030-02	30,421
VAHOUNY, GEORGE V.....	MYOCARDIAL LIPID METABOLISM AND REGULATION.....	MET	2R01 HL09489-10A1	52,051
ORGANIZATION TOTAL	37	2,734,462		
<b>GEORGETOWN UNIVERSITY ZIP CODE 20007</b>				
BAHR, GUNTER F.....	NEW TECHNIQUES FOR ANALYZING CYTOGENETIC ABERRATIONS.....	GEN	1R01 GM20046-01	50,638
BARKER, WINONA C.....	HOMOLOGOUS PHYSIOLOGICAL SYSTEMS IN HUMAN DEVELOPMENT.....	GEN	1R01 HD09547-01	63,465
BELLANTI, JOSEPH A.....	CELLULAR AND IMMUNOLOGICAL BASIS OF PULMONARY DISEASES.....	HEP	5P01 HL16748-02	287,046
BLANQUET, RICHARD S.....	CHEMICAL NATURE AND MODE OF ACTION OF CNIDARIAN TOXINS.....	TOX	5R01 ES00854-04	21,997
BLECHER, MELVIN.....	MECHANISMS OF ACTION OF HORMONES AND CYCLIC NUCLEOTIDES.....	END	5R01 AM05475-14	47,606
COLEMAN, MARY P.....	DEVELOPMENT OF SEROTONIN SCREENING TEST FOR NEONATES.....	NEUB	5R01 HD07695-02	44,080
DE LEVIE, ROBERT.....	KINETICS OF ION TRANSPORT THROUGH MEMBRANES.....	BBCB	1R01 GM22296-01	54,899
FELLER, WILLIAM F.....	CHARACTERIZATION OF DNA POLYMERASES IN HUMAN MILK.....	BIO	1R01 CA17623-01	43,337
GABRIEL, OTHMAR.....	BIOSYNTHESIS AND METABOLISM OF DEOXYSUGARS.....	PC	2R01 AD07241-10	55,716

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>DIST OF COL—Continued</b>				
GABRIEL, OTHMAR	ACTINOMYCES: MODEL STUDIES ON DENTAL PLAQUE FORMATION	MBC	1R01 DE04201-01	34,224
GILLIS, RICHARD A.	NEUROPHARMACOLOGY OF THE HEART	PHRA	5R01 HL13675-05	34,135
HERZBERG, DONALD	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07136-04	20,390
HIMMELSBACH, CLIFTON K.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05306-14	16,382
HORNER, WILLIAM H.	METABOLISM OF GUANIDINOXY COMPOUNDS IN MAMMALS	SSS	1R01 GM21940-01	36,539
IRWIN, RICHARD D.	EFFECTS OF IRRADIATION ON THE ACTIVITIES OF TUBULIN	RAD	1R01 GM21637-01	28,949
KATZ, EDWARD	BIOSYNTHESIS OF ACTINOMYCIN, AN ANTITUMOR AGENT	MBC	5R01 CA06926-13	60,764
LEDLEY, ROBERT S.	ANALYSIS OF CHROMOSOME KARYOGRAMS	SSS	5R01 HD05361-11	107,591
MARAK, GEORGE E., JR.	LENS-INDUCED UVEITIS AND SYMPATHETIC OPHTHALMIA	VISA	2R01 EY00887-04	78,511
MC CURDY, PAUL R.	ABNORMAL HEMOGLOBIN SYNDROME	HEM	2R01 HL14131-15A1	42,644
PENHOS, JUAN C.	ROLE OF GLUCAGON IN PITUITARY AND ADRENAL HORMONES	END	5R01 AM16342-02	53,384
POTTER, JOHN F.	VINCENT T. LOMBARDI CANCER RESEARCH CENTER - PHASE III	CAP	5P02 CA14626-02	91,619
PREUSS, HARRY G.	OXIDATIVE METABOLISM OF GLUTAMINE	GMB	5R01 AM15458-04	43,880
RAMWELL, PETER W.	ROLE OF ANDROGEN AS A RISK FACTOR IN ATHEROGENESIS	CVB	1R01 HL17516-01	77,304
RECANT, LILLIAN	ROLE OF CAMP IN INSULIN AND GLUCAGON SECRETION	MET	5R01 AM17431-02	48,956
SAZ, ARTHUR K.	STUDY OF ANTIBIOTIC RESISTANCE IN N. GONORRHOEA	BM	1R01 AI12388-01	42,360
SCHWARTZ, SORELL L.	TOXICITY OF INERT PARTICLES TO ALVEOLAR MACROPHAGES	ALY	5R01 ES00754-02	37,641
SHNIDER, BRUCE I.	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA02824-20	74,138
SLOTKOFF, LAWRENCE M.	REGULATION OF SODIUM EXCRETION	GMB	5R01 HL12827-06	96,782
SMULSON, MARK E.	MAMMALIAN RNA SYNTHESIS DURING AMINO ACID DEPRIVATION	PC	5R01 AI11950-05	52,068
SMULSON, MARK E.	HISTONE ADP-RIBOSYLATION AND HELA CELL REPLICATION	MBY	3R01 CA13195-03S1	2,815
SREEVALSAN, THAZEPADATH	BIOCHEMICAL AND GENETIC STUDIES ON ARBOVIRUSES	VR	2R01 AI09355-04	50,178
STEINHART, JACINTO	STUDIES IN THE POLYMERIZATION OF SICKLE-CELL HEMOGLOBIN	BBCB	5R01 HL12256-11	70,066
UTZ, JOHN P.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00060-14	137,205
UTZ, JOHN P.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05360-14	169,259
VAN LENTEN, LEE	LIVER PLASMA MEMBRANE-BINDING OF SERUM GLYCOPROTEINS	PC	5R01 AM16363-02	31,994
WALTERS, LEROY B.	ESTABLISHING AN INFORMATION SYSTEM FOR BIOETHICS	BLR	5R01 LM01702-02	102,734
WONG, VERNON G.	EXPERIMENTAL OCULAR HISTOPLASMOSIS IN PRIMATES	VISA	1R01 EY01443-01	52,523
ORGANIZATION TOTAL	37	2,363,819		
<b>GORGAS MEMORIAL INSTITUTE OF TROPICAL AND PREVENTIVE MEDICINE ZIP CODE 20006</b>				
GALINDO, PEDRO	ECOLOGY OF VECTOR BORNE VIRUSES IN PANAMA	TMP	5R01 AI02984-16	125,879
MILLAR, JACK W.	GENERAL RESEARCH SUPPORT GRANT	NSS	1S01 RR05769-01	37,573
READ, ROBERT G.	MICROCLIMATE IN ECOLOGY OF ARTHROPOD-BORNE DISEASES	TMP	5R01 AI11889-02	20,918
ORGANIZATION TOTAL	3	184,370		
<b>HOWARD UNIVERSITY ZIP CODE 20001</b>				
ASHE, WARREN K.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05361-14	161,250
COSTELLO, LESLIE C.	EFFECT OF SURGICAL STRESS & TRAUMA ON CITRATE METABOLISM	SGYB	5R01 GM17960-05	30,525
COSTELLO, LESLIE C.	PROSTATE CITRATE METABOLISM	REB	3R01 HD08420-01S1	3,000
FINLEY, HAROLD E.	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	5S05 RR07117-03	36,913
HAWTHORNE, EDWARD W.	HYPERTENSION AND LEFT VENTRICULAR HYPERTROPHY	CVB	5R01 HL01015-24	93,544
JACKSON, MARVIN A.	EPIDEMIOLOGY STUDY OF PROSTATIC CARCINOMA	SRC	5R26 CA15448-02	137,166
LEAK, LEE V.	THE LYMPHATIC SYSTEM IN HEALTH AND IN INFLAMMATION	PTHA	5R01 AI10639-05	43,507
LEAK, LEE V.	LYMPHATIC CAPILLARIES IN EARLY INFLAMMATION	PTHA	5R01 HL13901-05	52,643
MORRIS, HAROLD P.	INDUCTION-CHARACTERIZATION-MINIMAL DEVIATION HEPATOMAS	PTHB	5R01 CA10729-08	247,792
RIER, JOHN P., JR.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	GRS	5S06 RR08016-04	213,125
SCOTT, ROLAND B.	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	SRC	5P18 HL15160-04	547,159
STORM, CARLYLE B.	HYDROLYSIS AND SEQUENCING OF PROTEINS	MCHB	2R01 GM18552-04	35,310
TANAKA, DUKE, JR.	DEVELOPMENT OF FRONTAL LOBE CONNECTIONS	NEUA	1R01 NS12463-01	34,779
WALTERS, CURLA S.	IMMUNOLOGICAL REACTIONS TO HAPTENS ON AUTOLOGOUS CARRIES	IMB	7R01 AI13122-01	41,056
WHITE, JACK E.	CANCER RESEARCH PROGRAM	CAP	5P01 CA14718-02	282,891
ORGANIZATION TOTAL	15	1,960,660		
<b>INTERNATIONAL ASSOCIATION FOR THE STUDY OF PAIN ZIP CODE 20036</b>				
BONICA, JOHN J.	FIRST INTERNATIONAL SYMPOSIUM ON CANCER PAIN	NSS	1R13 CA18731-01	13,585
ORGANIZATION TOTAL	1	13,585		
<b>LEONARD WOOD MEMORIAL ZIP CODE 20037</b>				
HANKS, JOHN H.	ENERGETICS AND CULTIVATION OF MYCOBACTERIUM LEPRAE	BM	5R22 AI08866-06	84,070



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>DIST OF COL—Continued</b>				
MORRISON, NORMAN E.....	EXPERIMENTAL CHEMOTHERAPY OF LEPROSY.....	BM	5R22 AI10688-03	82,310
ORGANIZATION TOTAL	2 166,380			
<b>NATIONAL BIOMEDICAL RESEARCH FOUNDATION ZIP CODE 20007</b>				
DAYHOFF, MARGARET O.....	COMPUTER STUDY OF SEQUENCES OF AMINO ACIDS IN PROTEINS.....	COM	5R01 GM08710-14	146,448
LEDLEY, ROBERT S.....	PATTERN RECOGNITION IN CLINICAL MEDICAL LABORATORIES.....	SSS	5R01 GM10797-10	131,261
LEDLEY, ROBERT S.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05681-05	40,753
ORGANIZATION TOTAL	3 318,462			
<b>PAN AMERICAN HEALTH ORGANIZATION ZIP CODE 20037</b>				
ARROYAVE, GUILLERMO.....	AMINO ACID REQUIREMENTS OF PRE-SCHOOL AGE CHILDREN.....	NTN	5R22 AM17086-02	57,515
SCHNEIDER, ROBERTO E.....	ASSESSMENT OF NUTRITIONAL LOSSES DUE TO MALABSORPTION.....	NTN	1R22 AM18601-01	91,185
ORGANIZATION TOTAL	2 148,700			
<b>UNIVERSITIES RESEARCH ASSOCIATION ZIP CODE 20037</b>				
COHEN, LIONEL.....	FERMLAB NUCLEON THERAPY FACILITY.....	CAP	1P01 CA18081-01	279,100
ORGANIZATION TOTAL	1 279,100			
<b>WASHINGTON HOSPITAL CENTER ZIP CODE 20010</b>				
ECKELMAN, WILLIAM C.....	TECHNETIUM ORTHOPHOSPHATE FOR BONE IMAGING.....	RAD	5R01 GM20543-02	35,646
MAUGER, ANTHONY B.....	STRUCTURE AND BIOLOGICAL ACTIVITY IN ACTINOMYCINS.....	MCHA	5R01 CA11627-09	47,548
REBA, RICHARD C.....	SEMI-SYNTHETIC BLEOMYCINS: SYNTHESIS & CHARACTERIZATION.....	MCHB	1R01 CA16188-01	23,048
REBA, RICHARD C.....	SYNTHESIS OF MOLECULES FOR MYOCARDIAL IMAGING.....	RAD	5R01 HL16262-02	44,347
ORGANIZATION TOTAL	4 150,589			
STATE TOTAL	143 10,470,121			
<b>FLORIDA</b>				
<b>BOCA RATON</b>				
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA ATLANTIC UNIVERSITY ZIP CODE 33432</b>				
EARLY, JOHN D.....	A STATISTICAL BASIS FOR GUATEMALAN POPULATION POLICY.....	POP	1R01 HD09489-01	45,851
ORGANIZATION TOTAL	1 45,851			
<b>CORAL GABLES</b>				
<b>UNIVERSITY OF MIAMI ZIP CODE 33124</b>				
MAN, EUGENE H.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07022-08	28,069
MATTSON, JAMES S.....	BLOOD PROTEIN INTERACTIONS AT FOREIGN SURFACES.....	SGYB	5R01 HL15919-02	29,038
METZ, CHARLES B.....	STUDY OF MAMMALIAN SPERM ANTIGENS.....	REB	5R01 HD06663-02	100,002
MORTON, JULIA F.....	REPORT ON CURRENT PLANT REMEDIES OF MIDDLE AMERICA.....	BCM	5R01 CA15408-02	17,471
ONSAGER, LARS.....	THEORY OF POLAR LIQUIDS AND SOLUTIONS.....	BBCA	5R01 GM20284-03	51,469
SIMPLICIO, JON.....	MODEL ACTIVE SITES FOR HEME-NUCLEOPHILE INTERACTIONS.....	BBCB	2R01 HL13111-04	14,609
TAYLOR, BARRIE F.....	BIODEGRADATION OF PHTHALIC ACIDS AND ESTERS.....	MBC	5R01 ES00994-02	57,955
ORGANIZATION TOTAL	7 298,613			
<b>DAYTONA BEACH</b>				
<b>BETHUNE-COOKMAN COLLEGE ZIP CODE 32015</b>				
COPELAND, RICHARD F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	3S06 RR08119-01S1	330
COPELAND, RICHARD F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08119-02	147,498
ORGANIZATION TOTAL	2 147,828			



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>FLORIDA—Continued</b>				
<b>FORT LAUDERDALE</b>				
<b>NOVA UNIVERSITY ZIP CODE 33314</b>				
MENZIES, ROBERT A.	ROLE OF CHALONES IN CANCER CHEMOTHERAPY	ET	2R01 CA15837-02	58,590
ORGANIZATION TOTAL	1			58,590
<b>GAINESVILLE</b>				
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA ZIP CODE 32611</b>				
ABRAMS, ROBERT M.	HORMONAL CONTROL OF VAGINAL CIRCULATION	REB	5R01 HD08229-02	20,530
ACHEY, PHILLIP M.	BIOLOGICAL AND PHYSICAL ACTION OF RADIATION ON DNA	RAD	5R01 CA12447-05	37,979
ADAMS, CALVIN K.	THE PHOTORECEPTOR MOSAIC IN MAN AND MONKEY	VISB	1R01 EY01468-01	58,764
ALDRICH, HENRY C.	MEMBRANE STRUCTURE, CELL CONTACT AND CELL FUSION	MBY	1R01 GM21825-01	35,215
ALLEN, DON L.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05728-04	18,221
AYOUB, ELIA M.	PATHOGENESIS OF RHEUMATIC FEVER	ALY	5R01 AI09645-06	85,436
BARRON, DONALD H.	STUDY OF FETAL GROWTH AND DEVELOPMENT	HED	5R01 HD05659-05	48,512
BAZER, FULLER W.	PROGESTERONE-INDUCED PROTEINS IN THE PREGNANT UTERUS	REB	1R01 HD08560-01A1	37,974
BERNSTEIN, JERALD J.	REGENERATION IN THE CENTRAL NERVOUS SYSTEM	NEUB	5R01 NS06164-10	39,193
BESCH, EMERSON L.	DEFINITION OF ENVIRONMENTAL CONDITIONS FOR LAB. ANIMALS	AR	7R01 RR00942-01	49,393
BESCH, EMERSON L.	DEFINITION OF ENVIRONMENTAL CONDITIONS FOR LAB. ANIMALS	AR	5R01 RR00942-02	58,506
BLEIWEIS, ARNOLD S.	CELL-WALL ANTIGENS OF CARIOGENIC STREPTOCOCCI	ALY	2R01 DE02901-07	47,952
BLEIWEIS, ARNOLD S.	WORKSHOP ON METHODOLOGIES FOR DETECTING CARIOGENS	NSS	1R13 DE04149-01	25,523
BOYCE, RICHARD P.	FUNCTION OF BACTERIAL MEMBRANES IN DNA REPLICATION	MBG	2R01 GM19167-04	29,059
BROOKBANK, JOHN W.	GENE ACTIVATION IN CLEAVAGE ARRESTED EGGS	MBY	1R01 GM22290-01	34,373
BROWNELL, WILLIAM E.	SINGLE-UNIT STUDIES IN THE LATERAL SUPERIOR OLIVE	CMS	1R01 NS12209-01	37,355
BUTLER, GEORGE B.	SYNTHESIS RELATED TO POLYMERS OF ANTICANCER ACTIVITY	MCHA	5R01 CA06838-12	22,498
BYVOET, PAUL	INTERCALATING AGENTS AS PROBES OF CHROMATIN STRUCTURE	BIO	2R01 CA13408-04	7,512
BYVOET, PAUL	STRANDEDNESS OF HISTONE MODIFICATIONS	PBC	1R01 GM21952-01	15,696
CALDWELL, JACQUES R.	ROLE OF COMPLEMENT IN KERATITIS	VISA	5R01 Y01226-02	20,699
CARDEILHAC, PAUL T.	METABOLIC FATE OF AFLATOXIN	TOX	1R01 ES00891-01	11,077
CASSIN, SIDNEY	FETAL AND NEONATAL PULMONARY CIRCULATION	HED	2R01 HL10834-07	45,347
CERUTTI, PETER A.	REPAIR OF DNA DAMAGE IN BACTERIAL AND MAMMALIAN CELLS	BIO	2R01 GM18617-05	63,718
CHIOU, C. Y.	INHIBITION AND CYTOLYSIS OF NEUROBLASTOMA CELLS	ET	1R01 CA17584-01	22,778
COHEN, ROBERT J.	BIOCHEMISTRY OF THE RESPONSE SYSTEM OF PHYCOMYCES	CBY	5R01 GM19390-04	29,590
CONTI, C. RICHARD	VELOCITY OF AORTIC BLOOD FLOW IN MYOCARDIAL ISCHEMIA	CVB	5R01 HL17717-02	36,352
CRANDALL, CATHERINE A.	IMMUNE RESPONSIVENESS IN MICE INFECTED WITH NEMATODES	IMB	5R01 AI03212-15	53,941
CRISS, WAYNE E.	ADENYLATE KINASE IN NORMAL AND NEOPLASTIC TISSUES	BIO	5R01 CA11818-05	36,672
CUSUMANO, CHARLES L.	ROLE OF CIRCULATING IMMUNE COMPLEXES IN HUMAN CANCER	IMB	5R01 CA15373-02	43,780
DAVIS, FRANCIS C.	GENE EXPRESSION DURING OOGENESIS AND EMBRYOGENESIS	CBY	5R01 HD07659-03	24,096
DAVIS, GEORGE K.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07021-10	46,891
DRAGSTEDT, LESTER R.	THE PATHOGENESIS OF GASTRIC ULCER	SGYA	5R01 AM04178-15	42,058
DUNN, BEN M.	STRUCTURAL FACTORS IN PEPSIN-PEPSIN INHIBITOR BINDING	PC	1R01 AM18865-01	44,835
ETITZMAN, DONALD V.	PERINATAL CARDIOVASCULAR RESPONSE TO ACID AND ALKALI	CVA	5R01 HL14829-03	44,137
ENNEKING, WILLIAM F.	QUANTITATION OF BONE TRANSPLANT REPAIR	SGYA	2R01 AM14063-04	66,391
ENNEKING, WILLIAM F.	RADICAL LOCAL RESECTION IN MUSCULOSKELETAL SARCOMA	SGYA	1R01 CA16559-01	42,873
ENOCH, JAY M.	THE ETIOLOGY OF REDUCED VISUAL FUNCTION	VISB	7R01 EY01418-01	115,477
FELDHERR, CARL M.	INCORPORATION OF PROTEINS BY OOCYTE NUCLEI	CBY	1R01 GM21531-01	17,039
FINGER, KENNETH F.	GENERAL RESEARCH SUPPORT GRANT	NSS	1S01 RR05573-01	40,365
FINLAYSON, BIRDWELL	A PHYSICAL APPROACH TO STONE FORMATION	BBCB	2R01 AM13023-07	79,233
FISHER, WALDO R.	STUDIES OF THE STRUCTURE OF LOW DENSITY LIPOPROTEIN	MET	2R01 HL10316-10	79,329
FITZGERALD, CONSTANCE R.	PHOTOCOAGULATION TREATMENT OF MACULOPATHY	VISA	1R01 EY01084-01A1	37,183
FREGLEY, MELVIN J.	ORAL CONTRACEPTIVES AND HYPERTENSION	GMB	5R01 HL14526-03	46,592
GABBAY, EDMOND J.	STEREOSPECIFIC BINDING OF PROTEINS TO DNA	BBCB	2R01 GM17503-05	38,294
GASSET, ANTONIO R.	TERATOGENIC AND TOXIC EFFECTS OF OPHTHALMIC DRUGS	VISA	5R01 EY01098-03	44,457
GASSET, ANTONIO R.	USE OF THERMOKERATOPLASTY TECHNIQUE IN CORNEAL DISEASE	VISA	5R01 EY01112-03	15,478
GEHARDT, BRYAN M.	F1 HYBRID LYMPHOCYTE STIMULATION BY PARENTAL CELLS	IMB	5R01 AI12176-02	34,051
GEHARDT, BRYAN M.	PROLONGATION OF CORNEA ALLOGRAFT SURVIVAL BY ANTIBODY	IMB	5R01 EY01395-02	49,082
GIBBS, CHARLES H.	INVESTIGATION OF FUNCTIONAL MANDIBULAR MOVEMENTS	DEN	7R01 DE04157-01	49,946
GIBBS, CHARLES H.	INVESTIGATION OF FUNCTIONAL MANDIBULAR MOVEMENTS	SSS	2R01 DE04157-02	76,298

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>FLORIDA—Continued</b>				
GIBBS, CHARLES H.	INVESTIGATION OF TOOTH FORCES AND TOOTH MOBILITY	DEN	1R01 DE04350-01	30,022
GIFFORD, GEORGE E.	INTERFERON AND CELL MEDIATED IMMUNITY	VR	2R01 AI10900-04	57,157
GREGG, JAMES H.	DIFFERENTIATION IN THE CELLULAR SLIME MOLDS	CBY	5R01 GM10138-13	37,456
GRONWALL, RONALD R.	HEPATIC ORGANIC ANION TRANSPORT MECHANISMS	GMA	7R01 AM18923-01	45,134
HARRIS, JAMES O.	STUDY OF HUMAN ALVEOLAR MACROPHAGE ELASTASE	PTHA	1R01 HL18091-01	27,975
HENCH, LARRY L.	STUDY OF INTERFACIAL BEHAVIOR OF BIOMATERIALS	SSS	5P01 GM21056-02	224,331
HESSLER, JACK R.	PERINATAL PULMONARY HEMODYNAMIC ADAPTATION	HED	5R01 HL13749-05	52,453
HOLLIER, HARRY	STUDY OF COMMUNICATION SCIENCES	CDR	5P01 NS06459-10	231,330
ISAACSON, ROBERT L.	NEURAL BASIS OF EPILEPTIFORM ACTIVITY	NEUB	5R01 NS11441-02	13,916
JACKSON, ERIC	SYSTEMATIC DESENSITIZATION OF DENTAL FEARS	MSM	1R23 DE04143-01	14,386
JAEGER, MARC J.	UNEVEN VENTILATION IN BODY PLETHYSMOGRAPHY	AFY	1R01 HL17338-01	24,295
KALLENBACH, ERNST A.	TRACER AND FINE STRUCTURE STUDIES OF THE ENAMEL ORGAN	DEN	2R01 DE02241-10	13,156
KALRA, SATYA P.	OVARIAN STEROIDS IN THE GONADOTROPIN RELEASE MECHANISMS	REB	1R01 HD08634-01A1	55,041
KAUFMAN, HERBERT E.	OCULAR HERPES SIMPLEX	VISA	2R01 EY00007-14	83,884
KAUFMAN, HERBERT E.	CORNEAL PRESERVATION AND KERATOPLASTY	VISA	5R01 EY00266-12	46,287
KAUFMAN, HERBERT E.	STUDY OF EXTERNAL OCULAR DISEASE	VSN	5P01 EY00446-07	302,419
KAUFMAN, HERBERT E.	EXTERNAL OCULAR DISEASE CENTER	VSN	3R01 EY00446-07S1	30,694
LAIPIS, PHILIP J.	DNA POLYMERASES OF SV40 INFECTED OR TRANSFORMED CELLS	BIO	1R01 CA17662-01	43,452
LARKIN, LYNN H.	ROLE OF RELAXIN IN GESTATION AND PARTURITION	HED	5R01 HD08552-02	35,214
LEY, KENNETH D.	ISOLEUCINE-MEDIATED INITIATION OF DNA SYNTHESIS	MBY	5R01 GM19677-03	20,550
LUTTGE, WILLIAM G.	HORMONES IN SEXUAL DIFFERENTIATION AND BEHAVIOR	REB	5R01 HD07019-02	34,262
MAREN, THOMAS H.	STUDY OF SULFONAMIDES AND CARBONIC ANHYDRASE	PTR	5P01 GM16934-07	334,705
MC CAREY, BERNARD E.	AN IMPROVED CORNEAL EYE BANK STORAGE TECHNIQUE	VISA	1R23 EY01374-01	7,688
MC GUIGAN, JAMES E.	IMMUNOLOGY AND DISEASES OF THE GASTROINTESTINAL TRACT	GMA	5R01 AM13711-06	92,505
MC GUIGAN, JAMES E.	CANCER OF THE ENDOCRINE PANCREAS	PTHB	5R01 CA15332-02	20,543
MC KERNS, KENNETH W.	CONTRACEPTIVE REGULATION OF CORPUS LUTEUM FUNCTION	REB	2R01 HD05938-04	66,895
MERIMEE, THOMAS J.	INSULIN AND HGH: SECRETION AND METABOLIC ACTIONS	END	5R01 AM18130-02	55,058
METCALF, JOSEPH F.	ULTRASTRUCTURAL STUDIES OF DISCIFORM KERATITIS	VISA	1R01 EY01580-01	27,888
MORELAND, ALVIN F.	PRIMATE RESEARCH PROGRAM RESOURCE	AR	5P06 RR00421-14	18,115
MORELAND, ALVIN F.	SUPPORT FOR ANIMAL-CARE FACILITY	AR	2P06 RR00685-04	109,733
MOSCOVICI, CARLO	SPECIFICITY OF AVIAN MYELOBLASTOSIS VIRUS	PTHB	5R01 CA10697-09	48,602
MUNSON, JOHN B.	EYE MOVEMENT-INDUCED CHANGES IN VISUAL FUNCTION	VISB	5R01 EY01264-02	26,289
NEILSON, JOHN T.	IMMUNITY AND ANTIGEN CHARACTERIZATION OF FILARIASIS	TMP	2R22 AI10803-04	36,261
O'BRIEN, THOMAS W.	CHARACTERIZATION OF MAMMALIAN MITOCHONDRIAL RIBOSOMES	MBY	3R01 GM15438-07S1	5,463
OLSON, GERALD A.	ADHERENCE AND ITS INHIBITION IN STREPTOCOCCUS MUTANS	DEN	1R01 DE04064-01A1	26,203
PAIGE, ARNOLD	VIBRANTIAL PATTERN OF THE PATHOLOGIC LARYNX	CMS	5R01 NS11790-02	86,725
PALENIK, GUS J.	STRUCTURAL STUDIES OF ANTIHISTAMINES AND ANTIBIOTICS	BBCA	1R01 AI11825-01A1	39,949
PITTS, ROBERT F.	RENAL REGULATION OF BODY FLUIDS AND ELECTROLYTES	CVB	7R01 HL18018-17	23,184
POLACK, FRANK M.	ULTRAMICROSCOPIC CHANGES IN CORNEAL GRAFT REACTION	VISA	2R01 EY00415-07	35,376
REITH, EDWARD J.	ULTRASTRUCTURE OF TOOTH DEVELOPMENT	DEN	1R01 DE04059-01	25,661
SANDER, EUGENE G.	BIOCHEMICAL MECHANISMS OF PYRIMIDINE ALKYLATION	BIO	2R01 CA12971-04	45,232
SATZ, PAUL	LATERALITY OF SENSORY AND MOTOR FUNCTION IN MAN	EXP	2R01 NS08208-10	62,456
SHANDS, JOSEPH W. JR.	ENDOTOXIN AND PATHOGENESIS OF INFECTION	CBY	2R01 AI07257-09	50,342
SILVERMAN, DAVID N.	THE MECHANISMS OF BINDING OF CHROMOMYCINS TO DNA	BBCB	5R01 CA12951-03	13,460
SMALL, PARKER A. JR.	LOCAL IMMUNOLOGIC REACTIONS	ALY	2R01 AI07713-09	66,134
SMITH, RICHARD T.	CELLULAR MECHANISMS IN TUMOR-SPECIFIC IMMUNITY	ALY	5R01 CA15334-02	92,518
SMITH, RICHARD T.	ONTOGENY OF IMMUNE MECHANISMS	ALY	5R01 HD00384-17	78,541
STAINSBY, WENDELL N.	REGULATION OF USE OF OXYGEN BY MAMMALIAN SKELETAL MUSCLE	PHY	5R01 HL14806-16	28,540
STEIN, GARY S.	CONTROL OF GENE EXPRESSION BY ACIDIC NUCLEAR PROTEINS	MBY	5R01 GM20535-02	38,987
STETSON, CHANDLER A.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	2M01 RR00082-13	394,698
STETSON, CHANDLER A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05362-14	181,066
STEVENS, ANN R.	DIFFERENTIATION OF NEUROPATHIC ACANTHAMOEBA	TMP	5R01 AI09608-06	24,451
SUZUKI, HOWARD K.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05747-03	20,039
TOSKES, PHILLIP P.	ROLE OF PROTEOLYTIC ENZYMES IN VITAMIN B12 ABSORPTION	GMA	1R01 AM17866-01	25,052
TSIBRIS, JOHN C.	CARCINOGEN MONOOXYGENASES AND RELATED ENZYME SYSTEMS	BIO	9R01 CA17617-04	41,533
VAN MIEROP, LODEWYK H.	DEVELOPMENT OF HEART CONDUCTION SYSTEM AND INNERVATION	CVB	5R01 HL10912-10	19,182
VIERCK, CHARLES J. JR.	STUDY OF SPINAL SOMESTHETIC PATHWAYS	NEUB	2R01 NS07261-09	47,873
WILLIAMS, DAVID T.	VACUUM-CELL D2 SPECTROMETER FOR MEDICAL USE	MCHB	1R01 GM20237-01	18,221
WINEFORDNER, JAMES D.	MOLECULAR SPECTROMETRIC METHODS FOR DRUGS	MCHB	2R01 GM11373-12	64,804
WOODARD, JAMES C.	DEVELOPMENT OF ANIMAL MODEL OF FAMILIAL ATAXIA	PTHA	5R01 NS10265-03	5,419

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>FLORIDA—Continued</b>				
WOODWARD, EDWARD R.....	NEUROHUMORAL MECHANISMS INFLUENCING GASTRIC FUNCTION.....	SGYB	5R01 AM02372-17	51,681
WOODWARD, EDWARD R.....	PHYSIOLOGY AND PATHOLOGY OF LOWER ESOPHAGEAL SPHINCTER.....	SGYA	5R01 AM13544-05	44,747
ZOLTIEWICZ, JOHN A.....	STUDY OF ENZYME SYSTEM IN THIAMINE COFACTOR CATALYSIS.....	MCHA	5R01 AM17442-02	33,435
ORGANIZATION TOTAL	113	6,066,418		
<b>JACKSONVILLE</b>				
FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES—DIVISION OF HEALTH ZIP CODE 32201				
EDMAN, JOHN D.....	MOSQUITO-HOST INTERRELATIONSHIPS.....	TMP	5R01 AI11201-03	78,537
O'MEARA, GEORGE F.....	POPULATION BIOLOGY OF SALT MARSH MOSQUITOES.....	CDC	5R01 AI11583-03	29,076
PRATHER, E CHARLTON.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05553-13	53,107
ORGANIZATION TOTAL	3	160,720		
<b>MIAMI</b>				
PAPANICOLAOU CANCER RESEARCH INSTITUTE ZIP CODE 33136				
AHMAD, FAZAL.....	REGULATION OF FATTY ACID BIOSYNTHESIS IN MAMMARY TUMORS.....	PC	5R01 CA15196-02	42,085
ALTMAN, NORMAN H.....	ANIMAL RESOURCE IMPROVEMENTS.....	AR	1P06 RR00957-01	179,366
CHIU, ANDREW T.....	PROSTAGLANDIN SYNTHETASE ACTIVITY OF INTACT LUNGS.....	YIP	1R23 HL18415-01	45,155
DUNNING, WILHELMINA F.....	PRODUCTION OF RATS WITH ISOLOGOUSLY TRANSPLANTED R3327.....	SRC	1R26 CA18625-01	46,952
KOHEN, ELLI.....	REGULATION OF INTRA- AND INTER-CELLULAR COMMUNICATION.....	BBCA	5R01 GM20866-02	45,731
LEIF, ROBERT C.....	FLOW ANALYSIS OF NORMAL AND NEOPLASTIC CELLS.....	SSS	2R01 CA13441-04	139,740
LEIF, ROBERT C.....	ELECTRON CELL VOLUME ANALYSIS.....	SSS	2R01 GM18671-03	109,582
RYAN, JAMES W.....	SYNTHESIS AND METABOLISM OF VASOACTIVE POLYPEPTIDES.....	CVB	2R01 HL15691-03	136,221
RYAN, UNA S.....	CELL BIOLOGY OF THE ALVEOLAR CAPILLARY UNIT.....	PTHA	5R01 HL16407-02	39,118
SCHULTZ, JULIUS.....	SUPPORT FOR STUDY OF BIOCHEMICAL SCIENCES.....	BIO	5R01 CA10904-07	33,203
SCHULTZ, JULIUS.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05690-05	69,571
ZUCKER, ROBERT M.....	BUOYANT DENSITY STUDIES ON LEUKEMIC CELLS.....	ET	5R01 CA14774-02	37,485
ORGANIZATION TOTAL	12	924,209		
UNIVERSITY OF MIAMI ZIP CODE 33152				
ADACHI, KENJI.....	STUDY OF ROLE OF CYCLIC AMP IN PATHOGENESIS OF PSORIASIS.....	GMA	5R01 AM17179-02	66,286
ANDERSON, DOUGLAS R.....	EXPERIMENTAL PATHOLOGY OF THE OPTIC NERVE.....	VISB	2R01 EY00031-06	83,373
BARRETT, ELLEN F.....	NEUROTRANSMITTER RELEASE KINETICS.....	NEUA	1R01 NS12404-01	34,663
BARRETT, JOHN N.....	MEMBRANE PROPERTIES OF MOTONEURONS.....	PHY	1R01 NS12207-01	68,884
BOUCEK, ROBERT J.....	STUDIES ON AGING: EFFECTS OF SEX HORMONES.....	CVB	1R01 HL17865-01	62,074
BOUCEK, ROBERT J.....	DRUG TREATMENT OF VASCULAR SCLEROPROTEIN DEFECTS.....	CVB	1R01 HL17909-01	89,116
BREW, KEITH.....	CHEMICAL STUDIES OF ENZYMES AND PROTEINS.....	SSS	5R01 GM21363-02	59,119
BRICKER, DIANE D.....	LANGUAGE RESEARCH WITH YOUNG RETARDED CHILDREN.....	SSS	1R01 HD09906-01	98,173
BRICKER, WILLIAM A.....	ASSESSMENT AND MODIFICATION OF PARENTAL TEACHING STYLE.....	DBR	7R01 HD09284-01	77,234
BRILL, EARL.....	AROMATIC AMINE N-OXIDATION IN BLADDER CANCER.....	SRC	1R26 CA16900-01A1	43,834
CASWELL, ANTHONY H.....	FLUORESCENCE AND EXCITATION-CONTRACTION IN HEART.....	MBY	5R01 HL15645-03	26,102
CHAMBERS, EDWARD L.....	ROLE OF IONS IN ACTIVATION OF THE EGG.....	CBY	5R01 HD07213-03	31,485
CLARK, RONALD G.....	CNS CELLULAR RESPONSE TO CONTRAST VENTRICULOGRAPHY.....	RAD	3R01 GM20227-01S1	3,838
COLSKY, JACOB.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	2R10 CA02822-20	88,076
COWMAN, RICHARD A.....	HUMAN SALIVA-STREPTOCOCCAL METABOLIC INTERACTIONS.....	DEN	1R01 DE04278-01	31,640
DAVID, NOBLE J.....	EXPERIMENTAL FLUORESCIN ANGIOGRAPHY.....	VISA	2R01 EY00093-09	56,183
FITZGERALD, DOROTHEA B.....	CARIOGENESIS OF PLAQUE BACTERIA IN TEST MODELS.....	DEN	1R01 DE04265-01	73,585
FLETCHER, MARY A.....	IMMUNOCHEMICAL STUDIES OF MONONUCLEOSIS ANTIBODIES.....	ALY	5R01 AM16763-04	74,327
FLYNN, JOHN T.....	RETROLENTAL FIBROPLASIA: THE EVOLUTION OF THE LESION.....	VISA	1R01 EY01236-01A1	71,798
FORSTER, RICHARD K.....	DIAGNOSIS AND MANAGEMENT OF FUSARIUM KERATOMYCOSIS.....	BM	2R01 EY00674-04	60,805
GLADE, PHILIP R.....	LYMPHOID CELL LINES/MEDIATORS OF CELLULAR IMMUNITY.....	IMB	1R01 AI12475-01	71,981
GOOD, RAPHAEL S.....	THE PSYCHOSOCIAL REHABILITATION OF ONCOLOGIC PATIENTS.....	CCG	1R18 CA17869-01	273,104
GUNN, SAMUEL A.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17912-01	98,540
HAINES, HAROLD G.....	REPRESSION OF HERPES SIMPLEX VIRUS-2 REPLICATION.....	VR	1R01 CA17544-01	56,986
HALBERT, SEYMOUR P.....	SIGNIFICANCE OF PREGNANCY-ASSOCIATED PLASMA PROTEINS.....	HED	5R01 HD05736-05	128,442
HARKNESS, DONALD R.....	SUPPORT FOR SICKLE CELL CENTER.....	SRC	5P18 HL15999-03	483,156
HEALEY, JOHN E, JR.....	CANCER CONTROL OUTREACH PROGRAM DEVELOPMENT GRANT.....	CCG	1R18 CA17910-01	223,639
HO, REN-JYE.....	STUDY OF ACTION OF SYMPATHOMIMETIC AMINES.....	PHRA	5R01 HL16671-02	103,709



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>FLORIDA—Continued</b>				
HOLADAY, DUNCAN A.	METABOLISM OF VOLATILE FLUORINATED ANESTHETICS.....	PHRA	5R01 GM16498-07	43,202
HOWELL, DAVID S.	ROLE OF PHOSPHOLIPIDS IN MINERALIZATION OF OSTEOID.....	GMB	2R01 AM08662-11	95,051
HUIJING, FRANCISCUS.	MOLECULAR BASIS AND GENETICS OF GLYCOGEN-STORAGE DISEASE.....	MET	3R01 AM13359-06S1	5,235
HUIJING, FRANCISCUS.	MOLECULAR BASIS AND GENETICS OF GLYCOGEN-STORAGE DISEASE.....	MET	2R01 AM13359-07	36,458
JENSEN, JOERG A.	COMPLEMENT AND NATURAL ANTIBODIES IN ELASMOBRANCHS.....	ALY	5R01 AI10726-04	74,789
JESSE, MARY JANE.	CENTER FOR STUDY OF ATHEROSCLEROSIS AMONG CHILDREN.....	SRC	5P17 HL14141-05	689,350
KNIGHTON, ROBERT W.	ELECTRICAL STIMULATION OF THE VERTEBRATE RETINA.....	VISB	1R01 EY01432-01	34,299
KOCH, KJELL	ACUTE LEUKEMIA GROUP B.....	CCI	3R10 CA13057-03S2	40,059
LEE, ERNEST Y.	PHOSPHOPROTEIN PHOSPHATASES: PROPERTIES AND REGULATION.....	PC	1R01 AM18512-01	63,480
LEMAIRE, WILLIAM J.	MECHANISM OF OVULATION.....	REB	1R01 HD08747-01A1	62,038
LESSNER, HOWARD E.	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	3R10 CA05641-14S1	26,366
LESSNER, HOWARD E.	COOPERATIVE STUDY OF CANCER.....	CCI	2R10 CA05641-15	109,544
LEVEY, GERALD S.	STUDIES OF MYOCARDIAL ADENYL CYCLASE.....	END	5R01 HL13715-05	66,274
LOEWENSTEIN, WERNER R.	A PROGRAM ON THE ETIOLOGY AND DIAGNOSIS OF CANCER.....	SSS	5R01 CA14464-03	231,070
MACHEMER, ROBERT	VITRECTOMY THROUGH THE PARS PLANA.....	VISA	5R01 EY00841-04	68,668
MAGLEBY, KARL L.	MECHANISMS OF VARIABLE SYNAPTIC EFFICACY.....	NEUB	5R01 NS10277-03	48,661
MALININ, THEODORE I.	COLLECTION OF VIABLE HUMAN PROSTATIC TISSUES.....	SRC	5R26 CA15480-02	116,864
MARSH, JOHN M.	MECHANISMS OF GONADOTROPIN ACTION.....	REB	3R01 HD03142-07S1	5,905
MARSH, JOHN M.	BIOCHEMICAL MECHANISM OF ACTION OF GONADOTROPINS.....	REB	2R01 HD03142-08	76,891
MARSHALL, JAMES J.	SYNTHETIC GLYCOPROTEINS.....	PC	5R01 GM21258-02	31,971
MC AFE, DONALD A.	METABOLIC ASPECTS OF SYNAPTIC TRANSMISSION.....	NEUA	5R01 NS11552-02	31,175
MC CABE, MEAD M.	CELL ADHERENCE OF DENTAL PLAQUE FORMING STREPTOCOCCI.....	DEN	1R01 DE04321-01	46,104
MC CULLOUGH, JERRY L.	ENZYMATIC PREDICTION OF RESPONSE TO ANTICANCER DRUGS.....	ET	5R01 CA13832-03	38,016
MENDE, THOMAS J.	ANTICOAGULANT ACTIVITY OF IODOPEPTIDES.....	HEM	5R01 HL12483-06	37,746
MINTZ, DANIEL H.	GROWTH HORMONE SECRETION RATES.....	HED	5R01 AM14106-05	89,608
MORHART, ROBERT E.	BACTERIOCINS AS POTENTIAL CARRIES CONTROL AGENTS.....	DEN	1R23 DE04165-01	12,858
MYERBURG, ROBERT J.	STUDIES IN SURVIVORS OF LETHAL ARRHYTHMIAS.....	SRC	1R01 HL18769-01	130,421
NORTON, EDWARD W.	CLINICAL STUDY OF MACULAR DISEASE.....	VSN	5P15 EY00338-10	194,979
NOVAK, MILAN	ADIPOSE TISSUE METABOLISM IN ABNORMAL HUMAN NEWBORNS.....	HED	3R01 HD04946-03S1	14,345
NOVAK, MILAN	ADIPOSE TISSUE METABOLISM IN ABNORMAL HUMAN NEWBORNS.....	HED	2R01 HD04946-04	124,088
PALMER, ROGER F.	CELLULAR STUDY OF CARDIOVASCULAR FUNCTION.....	HEP	5P01 HL16117-02	354,986
PAPPER, EMANUEL M.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00261-10	594,729
PAPPER, EMANUEL M.	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05363-14	255,345
PRESSMAN, BERTON C.	IONOPHORE ACTION ON HEART AND OTHER MEMBRANE SYSTEMS.....	CVA	3R01 HL14434-03S1	6,343
RADOMSKI, JACK L.	MECHANISM OF BLADDER CANCER.....	ET	2R01 CA05449-14	120,320
REISS, ERIC	RADIOIMMUNOASSAY OF PARATHYROID HORMONE IN MAN.....	GMB	3R01 AM16768-03S1	18,240
REISS, ERIC	RADIOIMMUNOASSAY OF PARATHYROID HORMONE IN MAN.....	GMB	5R01 AM16768-04	77,848
RIBBONS, DOUGLAS W.	BIODEGRADATION OF THE PHTHALATES BY BACTERIA.....	MBC	5R01 ES00986-02	51,073
RIBBONS, DOUGLAS W.	ENZYMES OF AROMATIC OXIDATIONS FROM MICRO-ORGANISMS.....	MBC	5R01 GM20172-02	54,705
ROWE, MARC I.	METABOLIC AND HEMODYNAMIC STUDY OF SHOCK IN INFANCY.....	SGYB	5R01 HD04154-07	42,341
SCHEINBERG, PERITZ.	TENTH PRINCETON CONFERENCE ON CEREBROVASCULAR DISEASES.....	NSS	1R13 HL17817-01	20,000
SCHEINBERG, PERITZ.	STUDY OF CEREBRAL VASCULAR DISEASE.....	NBPA	5P01 NS05820-10	427,894
SCHEINBERG, PERITZ.	TENTH PRINCETON CONFERENCE ON CEREBROVASCULAR DISEASE.....	NSS	1R13 NS12144-01	6,164
SCHERLAG, BENJAMIN J.	MECHANISMS OF ISCHEMIC RHYTHM DISORDERS.....	CVB	1R01 HL18139-01	90,295
SWARTZMAN, ROBERT J.	FUNCTIONAL CAPABILITIES OF THE SENSORIMOTOR CORTEX.....	NEUA	1R01 NS12099-01	61,562
SCOTT, WALTER A.	ORGANIZATION OF HISTONES ON SV40 AND VARIANT DNA.....	VR	1R01 AI12852-01	59,338
SIGEL, MICHAEL M.	IMMUNOLOGY OF CANCER OF THE URINARY BLADDER.....	SRC	3R26 CA14957-02S1	29,930
SIGEL, MICHAEL M.	IMMUNOLOGY OF CANCER OF THE URINARY BLADDER.....	SRC	5R26 CA14957-03	119,850
SMITH, DAVID S.	STUDIES ON STRUCTURE AND FUNCTION IN EXCITABLE CELLS.....	MBY	2R01 NS10447-04	42,865
SMITH, ERIC E.	POLYSACCHARIDES PRODUCED BY CARIOGENIC MICROORGANISMS.....	MBC	5R01 DE03118-05	44,305
THOMAS, VERA	KINETICS OF UPTAKE AND EXCRETION OF VAPORS IN MAN.....	TOX	1R01 ES01029-01	24,980
VIAMONTE, MANUEL, JR.	COOPERATIVE STUDY OF HODGKIN'S DISEASE.....	CCI	5R10 CA08968-08	10,556
VOIGT, WALTER	MECHANISM OF ANDROGEN ACTION IN PROSTATIC NEOPLASIA.....	PTHB	2R01 CA12990-04	66,492
WEINSTEIN, GERALD D.	PATHOPHYSIOLOGY & CHEMOTHERAPY IN PSORIASIS & CANCER.....	GMA	2R01 AM14887-09	84,593
WHELAN, WILLIAM J.	SYNTHESIS AND STRUCTURE OF MAMMALIAN LIVER GLYCOGEN.....	MET	5R01 AM12532-08	111,715
WHELAN, WILLIAM J.	THE MECHANISM OF STARCH DIGESTION IN MAMMALS.....	MET	3R01 AM17733-01S1	23,206
WHITNEY, PHILIP L.	STRUCTURE OF HUMAN ERYTHROCYTE CARBONIC ANHYDRASE.....	BIO	1R01 GM20815-01	39,024
WILSON, DAVID L.	CONTROL OF PROTEIN SYNTHESIS IN THE NERVOUS SYSTEM.....	NEUB	1R01 NS12393-01	35,437
WOESSNER, J. FREDERICK, JR.	HUMAN CARTILAGE PROTEASES IN ARTHRITIS.....	GMA	5R01 AM16940-03	61,830
WOESSNER, J. FREDERICK, JR.	CONTROL OF TISSUE COLLAGENASE BY STEROIDS.....	PTHA	2R01 HD06773-04	64,382



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>FLORIDA—Continued</b>				
YUNIS, ADEL A.....	BIOCHEMISTRY AND IMMUNOLOGY OF BLOOD DISEASES.....	SSS	3P01 AM09001-10S1	137,599
ZIBOH, VINCENT A.....	BIOCHEMICAL BASIS OF PROSTAGLANDIN ACTION IN THE SKIN.....	GMA	5R01 AM14941-03	74,722
ZINNER, DORAN D.....	MICROBIAL PATHOGENESIS OF HUMAN DENTAL CARIES.....	SSS	5P01 DE02552-09	425,133
ZUBROD, CHARLES G.....	CANCER RESEARCH CENTER OF GREATER MIAMI.....	CAP	3P01 CA14395-02S1	45,074
ZUBROD, CHARLES G.....	COMPREHENSIVE CANCER CENTER OF GREATER MIAMI.....	CAP	5P01 CA14395-03	1,775,542
ORGANIZATION TOTAL	93	10,744,085		
<b>MIAMI BEACH</b>				
<b>MOUNT SINAI MEDICAL CENTER ZIP CODE 33140</b>				
BERNSTEIN, WILLIAM H.....	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE.....	TEC	3R01 HL10446-09S1	2,026
GREENBERG, JACK J.....	NONINVASIVE RADIONUCLIDE STUDY OF CARDIAC FUNCTION.....	SGYA	5R01 HL15780-02	47,210
SACKNER, MARVIN A.....	VOLUMES AND COMPLIANCE OF PULMONARY CIRCULATION.....	CVB	5R01 HL10622-09	36,128
SACKNER, MARVIN A.....	MUCOCILIARY TRANSPORT MECHANISMS.....	CVA	1R01 HL17816-01	73,118
SACKNER, MARVIN A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05662-06	29,464
WANNER, ADAM.....	STRUCTURE AND FUNCTION IN INTACT HUMAN AIRWAYS.....	YIP	1R23 HL18356-01	40,333
ZAIAS, NARDO.....	THE BIOLOGY AND PATHOPHYSIOLOGY OF NAIL DISEASES.....	GMA	5R01 AM16198-02	81,997
ORGANIZATION TOTAL	7	310,276		
<b>TALLAHASSEE</b>				
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY ZIP CODE 32307</b>				
TTERLIKIS, LAMBROS.....	NUCLEOSIDE ANALOGS WITH ANTITUMOR ACTIVITY.....	GRS	3S06 RR08111-02S1	16,321
TTERLIKIS, LAMBROS.....	NUCLEOSIDE ANALOGS WITH ANTITUMOR ACTIVITY.....	GRS	5S06 RR08111-03	210,942
ORGANIZATION TOTAL	2	227,263		
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY ZIP CODE 32306</b>				
BERKLEY, KAREN J.....	CONVERGENCE OF SOMATOSENSORY PATHWAYS IN THALAMUS.....	NEUA	1R01 NS11892-01	45,722
BERKLEY, MARK A.....	ORIENTATION SELECTIVE MECHANISMS IN VISION.....	VISB	2R01 EY00953-04	38,184
DE BUSK, A GIB.....	CELL SURFACE FUNCTION AND CELLULAR AGING.....	CBY	1R01 AG00194-01A1	30,174
DE BUSK, A GIB.....	MEMBRANE TRANSPORT AND CELLULAR COMPARTMENTATION.....	GEN	5R01 GM17943-04	30,040
DYE, THOMAS R.....	POPULATION-POLICY LINKAGES IN CITIES AND SUBURBS.....	POP	5R01 HD07629-03	6,461
ELAM, JOHN S.....	STUDY OF AXONAL GLYCOPROTEINS AND GLYCOSAMINOGLYCANS.....	PC	5R01 NS11456-03	29,116
FISHER, JAMES R.....	REGULATION OF PURINE METABOLISM.....	MET	2R01 HD05544-04A1	66,801
FRIEDEN, EARL.....	AMPHIBIAN DEVELOPMENT, THYROID INDUCED METAMORPHOSIS.....	CBY	5R01 HD01236-20	103,072
GRAZIADEI, PASQUALE P.....	FUNCTIONAL ANATOMY OF OLFACTORY AND TASTE RECEPTORS.....	CMS	5R01 NS08943-06	52,158
GREENBERG, MICHAEL J.....	PHARMACOLOGY OF MOLLUSCAN HEARTS.....	PHRA	2R01 HL09283-11	45,972
HERZ, WERNER.....	ANTITUMOR LACTONES - STUDIES IN PHYTOCHEMISTRY.....	MCHA	2R01 CA13121-17	65,826
JOHNSON, ROBERT M.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07020-10	48,416
KENSHALO, DANIEL R.....	PSYCHOPHYSICAL AND NEURAL RESPONSE TO THERMAL STIMULI.....	CMS	5R01 NS02992-15	74,410
LIGHT, ROBLEY J.....	HYDROXY FATTY ACID METABOLISM AND FUNCTION.....	PC	5R01 AM15150-04	30,542
MANDELKERN, LEO.....	CONFORMATIONAL AND OPTICAL PROPERTIES OF POLYPEPTIDES.....	BBCA	1R01 GM20860-01	31,588
MANN, CHARLES K.....	ELECTROCHEMICAL OXIDATION OF BIOLOGICAL AMINES.....	MCHB	2R01 NS10528-13	50,831
MARZLUFF, WILLIAM F, JR.....	CONTROL OF CELL DIVISION: AN APPROACH TO AGING.....	SSS	1R01 HD09173-01	52,784
MASTERTON, R BRUCE.....	ANALYSIS OF SENSORY CORTEX.....	PHY	5R01 NS07726-09	53,306
REEVES, ROBERT H.....	THE BIOLOGICAL SIGNIFICANCE OF tRNA MODIFICATIONS.....	PC	5R01 GM19702-03	29,659
REEVES, ROBERT H.....	PHAGE-HOST INTERACTIONS AT THE TRANSCRIPTIONAL LEVEL.....	GEN	1R01 GM21994-01	51,146
RILL, RANDOLPH L.....	CHARACTERIZATION OF CHROMATIN SUBUNITS.....	BBCA	1R01 GM21126-01A2	39,363
RUSHTON, WILLIAM A H.....	TRANSMISSION OF SIGNALS THROUGH HUMAN RETINA.....	VIS	5R01 EY00684-05	32,369
SCHWARTZ, MARTIN A.....	SYNTHESIS OF ALKALOID MEDICINAL AGENTS.....	MCHA	5R01 GM21182-08	46,084
SMITH, JAMES C.....	THE BIOLOGICAL BASIS FOR OLFACTORY BEHAVIOR.....	CMS	5R01 NS11668-02	59,954
TUCKER, DON.....	RELATION OF NEURAL RESPONSES TO ODOR PROPERTIES.....	CMS	2R01 NS08814-06	35,568
VICKERS, THOMAS J.....	ANALYSIS OF TRACE ELEMENTS IN BIOLOGICAL SAMPLES.....	MCHB	2R01 GM15996-07	48,130
WALBORSKY, HARRY M.....	CYCLOPROPYL RADICALS AND STUDIES IN ASYMMETRIC SYNTHESSES.....	MCHA	5R01 CA04065-17	42,791
WELLER, ROBERT H.....	COMPONENTS OF METROPOLITAN POPULATION CHANGE.....	POP	1R01 HD09329-01	32,472
WHITE, DAVID C.....	FORMATION OF THE ELECTRON TRANSPORT SYSTEM IN HEMOPHILUS.....	BIO	5R01 GM20662-03	50,333
WILLIAMS, THEODORE P.....	STUDY OF SENSORY BIOLOGY.....	CDR	5P01 NS07468-08	37,300
ORGANIZATION TOTAL	30	1,360,572		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>FLORIDA—Continued</b>				
<b>TAMPA</b>				
STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF SOUTH FLORIDA		ZIP CODE 33620		
BAKER, CARLETON H.....	SIGNIFICANCE OF PERIPHERAL VASCULAR VOLUME CHANGES.....	CVA	5R01 HL14541-04	42,759
BLOOM, SHERMAN.....	STRUCTURE-FUNCTION PATHOLOGY OF ISOLATED HEART CELLS.....	CVA	5R01 HL16956-02	23,354
CORY, JOSEPH G.....	TUMOR CELL INHIBITION BY NUCLEOTIDE ALDEHYDE ANALOGS.....	ET	5R01 CA15577-02	46,489
CORY, JOSEPH G.....	RIBONUCLEOTIDE REDUCTASE AS SITE FOR ANTITUMOR DRUGS.....	PC	1R01 CA17246-01	35,526
GARRETT, CARLETON T.....	HETEROGENEOUS RNA SEQUENCES IN LIVER NEOPLASMS.....	PTHB	5R01 CA15647-02	32,230
HARTMANN, ROBERT C.....	CELLULAR DEFECTS IN NOCTURNAL HEMOGLOBINURIA.....	HEM	7R01 HL18012-01	89,093
LAMBETH, DAVID O.....	SYNTHESIS AND PROPERTIES OF S-ALKYLISOTHIAZOLIDINES.....	MCHB	1R01 GM21539-01	16,104
NESS, GENE C.....	HORMONE REGULATION OF CHOLESTEROL METABOLISM IN AGING.....	MET	1R01 HL18094-01	32,588
POLLET, ROBERT J.....	CHARACTERIZATION OF INSULIN RECEPTOR OF HUMAN LYMPHOCYTE.....	MET	1R01 AM18608-01	46,526
SCHNELLER, STEWART W.....	ANALOGS OF DEAZAADENOSINE ANTINEOPLASTIC AGENTS.....	MCHA	1R01 CA17878-01	42,720
SHANNON, ROGER.....	RESPIRATORY MUSCLE AFFERENTS IN RESPIRATORY CONTROL.....	PHY	7R01 HL17715-01	25,946
SIDRANSKY, HERSCHEL.....	CHEMICAL PATHOLOGY OF AMINO ACID DEFICIENCIES.....	PTHB	2R01 AM16530-04A1	90,708
SIDRANSKY, HERSCHEL.....	RESPONSES OF POLYRIBOSOMES IN LIVER CANCER.....	PTHA	5R01 CA14156-04	46,805
SMITH, DONN L.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05749-03	43,167
WILKINSON, DAVID S.....	CYTOTOXICITY AND RIBOSOMAL RNA MATURATION.....	SSS	1R01 CA14762-01A1	28,921
WONG, KIN-PING.....	RIBOSOMAL PROTEIN, PROTEIN-RNA INTERACTION AND FUNCTION.....	BBCA	1R01 GM21562-01	65,356
ORGANIZATION TOTAL	16	708,292		
<b>VERO BEACH</b>				
FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES—FLORIDA MEDICAL ENTOMOLOGY LABORATORY		ZIP CODE 32960		
KITZMILLER, JAMES B.....	GENETICS OF ANOPHELINE MOSQUITOES.....	GEN	7R01 AI12894-01	46,070
LINLEY, JOHN R.....	THE BIOLOGY OF CULICOIDES.....	TMP	2R01 AI09354-06	20,317
PROVOST, MAURICE W.....	THE NATURAL HISTORY OF MOSQUITOES.....	TMP	2R01 AI06587-11	110,920
ORGANIZATION TOTAL	3	177,307		
STATE TOTAL	290	21,230,024		
<b>GEORGIA</b>				
<b>ALBANY</b>				
UNIVERSITY SYSTEM OF GEORGIA—ALBANY STATE COLLEGE		ZIP CODE 31705		
BLACK, BILLY C.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08023-04	71,300
ORGANIZATION TOTAL	1	71,300		
<b>ATHENS</b>				
UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA		ZIP CODE 30601		
AGOSIN, MOISES.....	BIOCHEMISTRY OF THE HYDATID ORGANISMS.....	TMP	5R01 AI09865-05	25,856
AGOSIN, MOISES.....	MICROSOMAL HEMOPROTEINS IN TRYPANOSOMATIDAE.....	TMP	1R01 AI12244-01	22,490
ALLINGER, NORMAN L.....	CONFORMATIONAL ANALYSIS IN THE STEROIDS.....	BBCA	3R01 AM14042-06S1	561
ALLINGER, NORMAN L.....	CONFORMATIONAL ANALYSIS IN THE STEROIDS.....	BBCA	5R01 AM14042-07	30,905
BALDWIN, JACK N.....	STUDIES OF STAPHYLOCOCCUS AUREUS BY TRANSDUCTION.....	BM	5R01 AI08450-08	27,083
BOWEN, JOHN M.....	PHARMACOLOGY OF NERVE-MUSCLE SYSTEMS.....	PHRA	5R01 NS09087-06	14,706
BRADY, ULLMAN E, JR.....	BIOGENIC AMINES IN INTOXICATED MAMMALS AND INSECTS.....	TOX	5R01 ES00710-04	26,300
CARLTON, BRUCE C.....	CIRCULAR DNA ELEMENTS IN BACILLUS MEGATERIUM.....	MBC	3R01 GM18936-04S1	10,625
CARR, PETER W.....	NEW METHODOLOGIES IN BIOANALYTICAL CHEMISTRY.....	MCHB	5R01 GM17913-05	77,123
COLE, RONALD S.....	REPAIR OF DNA CROSSLINKS IN BACTERIA AND ANIMAL CELLS.....	BBCA	5R01 CA14396-03	40,105
DAMIAN, RAYMOND T.....	SCHISTOSOME IMMUNITY MECHANISMS.....	TMP	2R22 AI12065-02	54,663
DE SA, RICHARD J.....	FLAVOPROTEINS; ON-LINE COMPUTERS; INSTRUMENTATION.....	BIO	2R01 GM16834-07	51,216
DERVARTANIAN, DANIEL V.....	HIGH-ENERGY INTERACTIONS IN MULTI-HEME SYSTEMS.....	BIO	5R01 GM18895-04	31,541
DOUGLAS, CHARLES H.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07025-10	42,966
GILES, NORMAN H.....	IN VIVO AND IN VITRO GENETIC REGULATORY MECHANISMS.....	MBC	1R01 GM22054-01	38,889

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>GEORGIA—Continued</b>				
HILL, RICHARD K.	STEREOCHEMICAL STUDIES OF BIOSYNTHETIC REACTIONS	MCHA	5R01 GM16944-06	37,313
KENT, HARRY A, JR.	A POLYPEPTIDE INFLUENCING OVARIAN FUNCTION	REB	5R01 HD05697-03	22,228
KEY, JOE L.	RNA METABOLISM IN DEVELOPMENT AND HORMONAL REGULATION	PC	5R01 CA11624-06	63,148
KUSHNER, SIDNEY R.	A BIOCHEMICAL ANALYSIS OF GENETIC RECOMBINATION	MBG	1R01 GM21454-01	39,569
LEA, ARDEN O.	ENDOCRINOLOGY OF MOSQUITO REPRODUCTION AND BEHAVIOR	SSS	2R01 AI09410-06	60,372
LEE, JOHN W.	APPLICATIONS AND MECHANISMS OF BACTERIAL BIOLUMINESCENCE	BIO	3R01 GM19163-01A1S1	785
LEE, JOHN W.	BIOLOGICAL REACTIONS OF LASER-GENERATED SINGLET OXYGEN	BBCA	5R01 HD07714-02	28,443
LJUNGDAHL, LARS G.	BIOCHEMISTRY OF VITAMIN B12 AND FOLIC ACID COMPOUNDS	MBG	2R01 AM12913-07	36,865
MC DONALD, LESLIE E.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05601-08	15,538
MC GHEE, R BARCLAY	BIOLOGY OF HAEMOSPORIDIDEA AND TRYPANOSOMATIDAE	TMP	5R01 AI00924-20	32,372
MENDICINO, JOSEPH F.	ENZYME INTERACTIONS IN METABOLIC REGULATION	PC	5R01 AM13150-08	31,248
OWENS, WILLIAM A.	INTEGRATIVE STUDY OF DEVELOPMENT	DBR	5R01 HD04135-07	84,905
PROENZA, LUIS M.	ELECTROPHYSIOLOGY OF RETINAL AMACRINE CELLS IN VISION	VIS	5R01 EY00973-03	19,521
STAMMER, CHARLES H.	CYCLOASPARAGINE AND CYCLOGUTAMINE	MCHA	5R01 CA14153-02	23,360
TRAVIS, JAMES	PROTEOLYTIC ENZYMES OF THE BLOOD AND PANCREAS	PC	5R01 HL14778-07	33,312
VAPNEK, DANIEL	INTERMEDIATES IN REPLICATION OF DNA IN E. COLI	MBG	5R01 GM20160-03	30,149
WAMPLER, JOHN E.	INSTRUMENTAL METHODS AND PYRIDOXAL CATALYSIS	BBCA	5R01 AM17006-02	21,088
ORGANIZATION TOTAL	32		1,075,245	
<b>ATLANTA</b>				
<b>ATLANTA UNIVERSITY CENTER</b>	<b>ZIP CODE 30310</b>			
JOHNSON, JOE, JR.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	GRS	5S06 RR08006-04	603,900
ORGANIZATION TOTAL	1		603,900	
<b>EMORY UNIVERSITY</b>	<b>ZIP CODE 30322</b>			
BASMAJIAN, JOHN V.	BIOFEEDBACK SHAPING OF RELAXATION IN SPASTIC PATIENTS	EXP	1R01 NS12280-01	53,561
DANNER, DEAN J.	BRANCHED-CHAIN ALPHA KETOACID METABOLISM	BIO	1R01 HD08388-01A1	49,268
DEFELICE, LOUIS J.	INTRODUCTION TO MEMBRANE NOISE	BCM	1R01 LM02505-01	13,290
DEHAAN, ROBERT L.	ELECTRICAL COUPLING AND CARDIAC FIBRILLATION	PHY	1R01 HL17827-01	76,689
DI GIROLAMO, MARIO	ADIPOSE TISSUE CELLULARITY AND FUNCTIONS	MET	5R01 AM13940-05	31,710
DI GIROLAMO, MARIO	CONTROL MECHANISMS OF GLUCOSE METABOLISM IN FAT CELLS	MET	5R01 AM17403-02	31,604
DODD, JOHN R.	SPIN LABEL STUDIES OF CORTICOSTEROID BINDING	MCHB	5R01 GM21381-02	30,320
EAMES, WILMER B.	A CLINICAL STUDY OF DENTAL MATERIALS AND TECHNIQUES	DEN	5R01 DE03504-07	52,952
EGAN, ROBERT L.	DIAGNOSTIC BREAST CANCER - HIGH RISK GROUPS	RAD	5R01 CA14712-02	113,181
FRANKLIN, ERNEST W, III.	COOPERATIVE STUDY OF NEW GYNECOLOGIC CANCER PATIENTS	CCI	5R10 CA13632-04	64,814
FRITZ, MICHAEL E.	ION TRANSPORT IN SALIVARY GLANDS	DEN	5R01 DE02879-06	41,430
FRITZ, ROBERT B.	NUCLEAR PROTEINS AND MALIGNANCY	IMB	1R01 CA17528-01	33,771
FULLER, ELLEN O.	SYMPATHETIC RESPONSES OF THE UTERINE CIRCULATION	HED	5R01 HD08477-05	39,286
GLAZER, ROBERT I.	CARCINOGEN INTERACTIONS IN REGENERATING LIVER	PTHB	5R01 CA14162-02	24,010
GROTH, DONALD P.	NUCLEIC ACID STUDIES IN CANCER CHEMOTHERAPY	ET	5R01 CA03528-18	40,395
HARRIS, JANE E.	REGULATION OF CATECHOLAMINE SYNTHESIS BY CYCLIC AMP	PHRA	1R01 NS12288-01	37,291
HERSEY, STEPHEN J.	INTRACELLULAR REACTIONS IN GASTRIC MUCOSA	PHY	5R01 AM14752-05	32,638
HUGULEY, CHARLES M, JR.	SOUTHEASTERN CANCER STUDY GROUP	CCI	3R10 CA03227-18S2	71,920
HUGULEY, CHARLES M, JR.	COOPERATIVE STUDY OF CANCER	CCI	2R10 CA03227-19	279,939
HUGULEY, CHARLES M, JR.	SOUTHEASTERN GROUP STATISTICAL SERVICES	CCI	3R10 CA11263-06S1	32,115
HUGULEY, CHARLES M, JR.	STATISTICAL SERVICES FOR COOPERATIVE STUDY GROUP	CCI	2R10 CA11263-07	135,983
HUGULEY, CHARLES M, JR.	CANCER CENTER SUPPORT GRANT (MULTIDISCIPLINARY)	CAP	1P01 CA16255-01A1	530,065
HUGULEY, CHARLES M, JR.	CLINICAL CANCER EDUCATION PROGRAM (GENERAL)	CEC	1R25 CA17998-01	137,921
HUMPHREY, DONALD R.	CORTICAL NEURONAL MECHANISMS OF MOTOR CONTROL	NEUA	2R01 NS10183-04	80,695
HUNT, LINDSAY M.	DENTAL ANESTHESIA: A PSYCHOPHYSIOLOGICAL EVALUATION	SSS	1R01 DE04003-01	51,608
HUNT, LINDSAY M.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05308-14	51,376
JACKSON, RICHARD T.	BLOOD-FLOW CHANGES IN OTIC AND NASAL TISSUE	CMS	5R01 NS09570-11	60,917
JOHNSON, LEWIS D.	STUDIES OF EPITHELIAL BASEMENT MEMBRANE COMPONENTS	PC	5R01 CA14797-02	27,915
KANN, HERBERT E.	ANTINEOPLASTIC DRUGS: MOLECULAR PHARMACOLOGIC STUDIES	ET	1R01 CA16620-01	68,940
KIBLER, ROBERT F.	IMMUNE FUNCTION IN EAE AND MULTIPLE SCLEROSIS	IMB	5R01 NS10721-03	30,098
KIBLER, ROBERT F.	STUDIES IN DEMYELINATING DISEASES	NSPB	5P01 NS11418-02	247,847
KOSTYO, JACK L.	ANABOLIC ACTIONS OF ADENOHYPOPHYSIAL HORMONES	END	2R01 AM12782-08	24,699
KOSTYO, JACK L.	STRUCTURE-FUNCTION RELATIONSHIPS OF GROWTH HORMONE	HGDO	5P01 HD04485-05	128,736



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>GEORGIA—Continued</b>				
KUCK, JOHN F, JR.	LENS METABOLISM IN NORMAL AND PRECATARACTOUS STATES.	VIS	5R01 EY00260-12	57,768
KUO, JYH-FA	MOLECULAR BASIS OF REGULATION OF HEART FUNCTION.	PHRA	5R01 HL15696-03	50,285
LERMAN, SIDNEY	LENS PROTEINS & FLUORESCENCE: IN VIVO & IN VITRO STUDY.	VISA	1R01 EY01575-01	71,572
LESTER, CHARLES T.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.	NSS	5S05 RR07023-10	49,827
LETBETTER, WILLIAM D.	MUSCLE SEGMENTAL SENSORY-MOTOR ORGANIZATION.	NEUB	2R01 NS09735-04	28,726
MANDELL, LEON	NMR SPECTROSCOPY OF BIOLOGICALLY IMPORTANT COMPOUNDS.	BBCB	5R01 GM10848-18	49,775
MANNING, JOHN W.	INTEGRATED CONTROL OF CARDIOVASCULAR ACTIVITY.	CVB	2R01 HL16648-13A2	50,832
MANOCHA, SOHAN L.	PROTEIN MALNUTRITION AND PRENATAL ALTERATION OF BRAIN.	NTN	1R22 HD06087-01A4	36,694
MENGER, FREDRIC M.	BIOORGANIC STUDY OF THE HYDROCARBON-WATER JUNCTURE.	MCHA	5R01 GM20336-02	23,986
MENGER, FREDRIC M.	INVESTIGATION OF BIO-ORGANIC SYSTEMS BY DYNAMIC NMR.	MCHB	1R01 GM21457-01	24,014
MICHAEL, RICHARD P.	ELECTROPHYSIOLOGY OF THE SENSORY SYSTEM.	NEUA	2R01 NS12260-02	23,748
MILLS, JOHN B, III.	BIOCHEMISTRY OF PROLACTIN ACTIVITY.	END	5R01 HD08230-02	30,457
MYERS, ORIE E, JR.	SUPPORT FOR YERKES REGIONAL PRIMATE RESEARCH CENTER.	PME	5P06 RR00165-15	1,344,991
NAHMJAS, ANDRE J.	RELATION OF HERPES SIMPLEX VIRUSES TO HUMAN CANCERS.	VR	1R01 CA16806-01	38,695
NAHMJAS, ANDRE J.	IMMUNOLOGY OF ORAL HERPES SIMPLEX VIRUS-1 INFECTION.	VR	5R01 DE03924-02	53,859
NANDY, KALIDAS	EFFECT OF CENTROPHENOXINE ON LIPOFUSCIN PIGMENT.	NEUB	5R01 NS11069-02	30,569
NEILL, DARRYL B.	CHEMICAL MECHANISMS IN CORPUS STRIATUM AND BEHAVIOR.	EXP	2R01 NS11138-03	30,961
NEILL, JIMMY D.	THE PHYSIOLOGIC CONTROL OF PROLACTIN SECRETION.	REB	2R01 HD04312-07	59,698
NEILL, JIMMY D.	GONADOTROPIN SECRETION DURING LACTATION IN THE MONKEY.	REB	5R01 HD07066-03	69,689
NOE, BRYAN D.	ROLE OF PROGLUCAGON IN GLUCAGON BIOSYNTHESIS.	MET	1R01 AM16921-01A1	21,424
NUTTER, DONALD O.	CIRCULATORY REGULATION DURING STATIC MUSCULAR EXERCISE.	CVB	5R01 HL14904-02	31,651
O'STEEN, WENDALL K.	REPRODUCTIVE HORMONES AND RETINAL DEGENERATION.	VISA	1R01 EY01566-01	32,156
PERACCHIO, ADRIAN A.	TELEMETRIC STUDY OF BEHAVIOR.	EXP	2R01 NS09688-04A1	37,554
POOLER, JOHN P.	PHOTODYNAMIC STRUCTURE-FUNCTION STUDY ON GIANT AXONS.	NEUB	5R01 NS09040-06	42,562
PREEDY, JOHN R.	ESTROGENS AND THE FLUID RETENTION OF HEPATIC CIRRHOSIS.	GMA	5R01 AM13468-06	47,160
PRIEST, JEAN H.	DERMATOGLYPHICS AND CLINICAL DISEASE.	EDC	2R01 GM19268-02	23,634
PRIEST, ROBERT E.	PATHOLOGIC SYNTHESIS OF COLLAGEN.	PTHA	5R01 AM16127-05	48,935
REICHERT, LEO E, JR.	TESTICULAR RECEPTORS OF FOLLICLE-STIMULATING HORMONE.	END	5R01 HD08228-02	61,196
RICHARDSON, ARTHUR P.	HUMAN DRUG METABOLISM AND TOXICOLOGY.	PTR	5P11 GM14270-09	431,057
RICHARDSON, ARTHUR P.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.	CLR	2M01 RR00039-15	558,190
RICHARDSON, ARTHUR P.	GENERAL RESEARCH SUPPORT GRANT.	NSS	5S01 RR05364-14	191,146
ROSE, JAMES D.	ELECTROPHYSIOLOGY OF THE GENITAL SENSORY SYSTEM.	NEUA	7R01 NS12260-01	10,401
RUDMAN, DANIEL	PITUITARY ADIPOKINETIC SUBSTANCES.	MET	5R01 AM13129-08	107,781
RUDMAN, DANIEL	ABNORMAL METABOLISM OF CANCER PATIENTS.	ET	2R01 CA12646-04	92,551
RUMBAUGH, DUANE M.	DEVELOPMENT OF LANGUAGE TRAINING SYSTEM IN THE APE.	EXP	5R01 HD06016-04	42,090
RUMBAUGH, DUANE M.	LANGUAGE FORMATION STUDIES.	HDMC	2P01 HD06016-05	197,787
SCHNEIDER, FREDERICK H.	LIFE CYCLE OF ADRENAL MEDULLA CHROMAFFIN GRANULES.	GMB	5R01 AM17212-02	33,186
SCHNEIDER, FREDERICK H.	NEUROTRANSMITTERS IN NORMAL AND NEOPLASTIC CELLS.	PTHA	2R01 NS11365-03	38,795
SCOTT, JUNE R.	LYSOGENY AND BACTERIOPHAGE P1.	VR	5R01 CA11673-06	38,093
SEERY, VIRGINIA L.	STRUCTURE-FUNCTION STUDIES ON GLYCOGEN PHOSPHORYLASE.	BIO	1R01 AM18527-01	38,333
SHAPIRA, RAYMOND	STRUCTURE, METABOLISM, AND FUNCTION OF MYELIN PROTEINS.	NEUA	5R01 NS08278-07	62,150
SHEAR, CHARLES R.	POSTEMBRYONIC STRIATED MUSCLE GROWTH.	MBY	1R01 AM18485-01	36,582
SMITH, P DENNIS	ENVIRONMENTAL MUTAGENESIS AND DNA REPAIR.	GEN	1R01 ES01101-01	29,381
SMITH, P DENNIS	RECOMBINATION PROFICIENCY IN DROSOPHILA MELANOGASTER.	GEN	5R01 GM20361-02	35,678
SUNG, YUNG-FONG	ACUPUNCTURE ANESTHESIA AND ANALGESIA.	SSS	5R01 GM20450-02	25,980
SUTIN, JEROME	PALLIDAL INHIBITION OF BRAINSTEM ACTIVITY.	NEUB	3R01 NS06948-09S1	13,668
TAGER, MORRIS	CHEMISTRY AND ENZYMOLOGY OF STAPHYLOCOAGULASE ACTIVITY.	HEM	5R01 HL01895-21	35,281
TIGGES, JOHANNES W.	THE EFFERENT FIBERS OF THE VISUAL CORTICES.	VISB	2R01 EY00638-04	34,247
TROWBRIDGE, CLARENCE G.	CALORIMETRY OF ENZYME-LIGAND INTERACTIONS.	BBCA	1R01 GM21417-01	36,912
VOGLER, WILLIAM R.	MOLECULAR STUDIES OF REGULATORS IN GRANULOPOIESIS.	HEM	3R01 CA11692-03S1	28,662
WAITZMAN, MORTON B.	METABOLIC SYSTEMS IN AQUEOUS HUMOR DYNAMICS.	VISA	5R01 EY00243-12	49,492
WARREN, W DEAN	CIRRHOSIS SHUNT SURGERY, AND NITROGEN METABOLISM.	SGYA	2R01 AM15736-04	120,344
WATERSON, ROBERT M.	STRUCTURE-FUNCTION RELATIONSHIPS OF PROTEINS.	SSS	1R01 GM22034-01	52,495
WHITE, JOHN F.	GUT SUGAR TRANSPORT: ELECTROPHYSIOLOGY AND ENERGETICS.	PHY	5R01 AM17361-02	19,581
WILHELM, ALFRED E.	PRODUCTION OF PITUITARY HORMONES FOR USE IN RESEARCH.	END	5R01 AM03598-16	215,515
WILLIS, ISAAC	MECHANISM AND PREVENTION OF 'PHOTOAugMENTATION'.	GMA	1R01 CA17555-01	50,736
WOODS, WENDELL D.	BIOCHEMICAL REGULATION IN OCULAR TISSUES.	VISA	5R01 EY00945-04	69,074
YOUNG, LEONA C.	MAMMALIAN SPERMATOZOAN MOTILITY.	REB	3R01 HD06491-03S1	6,058
ORGANIZATION TOTAL	91	7,900,648		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>GEORGIA—Continued</b>				
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA INSTITUTE OF TECHNOLOGY      ZIP CODE 30332</b>				
BORKMAN, RAYMOND F.....	SPECTROSCOPIC CHARACTERIZATION OF HUMAN LENSES.....	VISA	5R01 EY01138-03	24,866
CRENSHAW, JOHN W. JR.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07024-10	37,197
FELTON, RONALD H.....	PORPHYRIN IONS AND RADICALS IN METABOLIC PROCESSES.....	MCHB	2R01 AM14344-06	64,078
GIDDENS, DON P.....	EFFECT OF POLYMER ADDITIVES ON TURBULENT BLOOD FLOW.....	CVB	2R01 HL15519-03	64,381
HOUSE, HERBERT O.....	ENHANCING THE SPECIFICITY OF SYNTHETIC PROCEDURES.....	MCHA	5R01 GM20197-05	104,605
MACKIE, PAUL E.....	LOCATION AND STRUCTURAL ROLE OF WATER IN TOOTH ENAMEL.....	DEN	1R01 DE04151-01	50,039
MAREK, MIROSLAV.....	EFFECT OF LOCALIZED CORROSION ON DENTAL AMALGAMS.....	DEN	5R23 DE03601-03	9,109
POWERS, JAMES C.....	X-RAY STUDY OF ENZYME AND SMALL MOLECULE INTERACTIONS.....	BBCB	3R01 GM18292-04S1	3,991
SLAMECKA, VLADIMIR.....	EXTENDED UTILIZATION OF BIOMEDICAL INFORMATION.....	NSS	3R01 LM02211-01S1	73,758
SLAMECKA, VLADIMIR.....	EXTENDED UTILIZATION OF BIOMEDICAL INFORMATION.....	NSS	5R01 LM02211-02	138,171
SMITH, ANDERSON D.....	INTERACTION BETWEEN HUMAN AGING AND MEMORY.....	EXP	2R01 HD06885-03	16,971
YOUNG, ROBERT A.....	TOOTH ENAMEL APATITE AT THE ATOMIC LEVEL.....	DEN	2R01 DE01912-12	85,244
YU, NAI-TENG.....	LASER-EXCITED RAMAN SPECTROSCOPY OF BIOPOLYMERS.....	BBCB	2R01 GM18894-04	38,658
ORGANIZATION TOTAL	13	711,068		
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA STATE UNIVERSITY      ZIP CODE 30303</b>				
CHERNIAK, ROBERT.....	THE COMMON ANTIGEN OF CLOSTRIDIUM PERFRINGENS.....	BM	1R01 AI12540-01	9,771
ORGANIZATION TOTAL	1	9,771		
<b>AUGUSTA</b>				
<b>PAINE COLLEGE      ZIP CODE 30901</b>				
DAVIS, FRANK R.....	BIOMEDICAL RESEARCH WITH STUDENT PARTICIPATION.....	GRS	5S06 RR08096-03	11,704
ORGANIZATION TOTAL	1	11,704		
<b>UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA      ZIP CODE 30902</b>				
ABDEL-LATIF, ATA A.....	AMINE NEUROTRANSMITTERS: LIPID & PROTEIN P04 TURNOVER.....	NEUB	2R01 NS07876-06	42,690
ALLEN, MARSHALL B. JR.....	ISOLATED PITUITARY RESPONSE TO LHRH AND ESTROGENS.....	REB	1R01 HD09445-01	34,840
ASOKAN, SANKARAN K.....	ROLE OF TRACE METALS IN CARDIOMYOPATHIES.....	CVB	5R01 HL14721-03	37,834
BIGGER, JOHN F.....	MARIJUANA AND GLAUCOMA.....	VISA	1R01 EY01590-01	26,515
BOINEAU, JOHN P.....	MECHANISMS OF DELAYED AND ASYMMETRIC VENTRICULAR CONDUCT.....	CVB	7R01 HL18398-01	55,481
BRESNICK, EDWARD.....	MAMMARY CARCINOGENESIS; IN MOUSE AND MAN.....	CAK	1P01 CA17059-01	289,166
BRESNICK, EDWARD.....	POLYCYCLIC HYDROCARBON METABOLISM AND CARCINOGENESIS.....	ET	1R01 CA17565-01	61,399
BULKACZ, JAIME.....	MUTANT GLUCOSYL TRANSFERASES OF STREPTOCOCCUS MUTANS.....	DEN	5R23 DE03937-02	7,500
CARTER, CURTIS H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05365-14	143,098
CUTRONEO, KENNETH R.....	ANTI-INFLAMMATORY STEROIDS AND COLLAGEN SYNTHESIS.....	MBY	2R01 AM16216-04	41,334
FAIRHURST, CARL W.....	BONDING OF PORCELAIN TO SEMI- AND NON-PRECIOUS METALS.....	DEN	1R01 DE04252-01	49,932
FELDMAN, ELAINE B.....	X-IRRADIATION, BILE SALTS AND INTESTINAL TRANSPORT.....	RAD	1R01 AM18406-01	38,544
GELFANT, SEYMOUR.....	ROLE OF IMMUNOCYTES AND IMMUNOSUPPRESSANTS IN AGING.....	IMB	5R01 HD07745-02	37,832
GREEN, KEITH.....	ION AND WATER MOVEMENT IN OCULAR TISSUES.....	VISA	5R01 EY01413-02	30,482
HALL, MARK R.....	ROLE OF HISTONES IN ONCOGENIC DNA VIRUS REPLICATION.....	SSS	1R01 CA17167-01	35,708
HOWARD, EUGENE F.....	LOW MOLECULAR WEIGHT NUCLEAR RNA.....	MBY	1R01 CA13634-01A1	25,964
HUISMAN, TITUS H.....	INHOMOGENEITY OF HEMOGLOBIN TYPES.....	HEM	2R01 HL05168-16	152,770
HUISMAN, TITUS H.....	COMPREHENSIVE SICKLE CELL CENTER.....	SRC	5P18 HL15158-04	737,705
ISRAEL, J VANCE.....	PHAGE P22: IN VITRO ASSEMBLY AND MODE OF ATTACHMENT.....	VR	5R01 AI11173-03	21,421
JELENKO, CARL, III.....	BIOCHEMICAL EFFECTS OF BURNING ON SKIN.....	SGYA	5R01 GM16973-06	47,456
KAROW, ARMAND M. JR.....	CRYOPRESERVATION OF RABBIT KIDNEYS.....	SGYA	1R01 AM17816-01	33,581
KOLBECK, RALPH C.....	MYOCARDIAL SUBCELLULAR LOCALIZATION OF CALCIUM.....	CVB	1R01 HL16710-01A1	35,961
LAPP, DAVID F.....	TREHALOSE METABOLISM IN THE PARASITIC NEMATODE ASCARIS.....	TMP	5R01 AI11732-02	18,110
MAHESH, VIRENDRA B.....	BIOSYNTHESIS OF STEROIDS IN THE POLYCYSTIC OVARY.....	END	2R01 HD04626-14A1	48,987
MATHENY, JAMES L.....	ADRENOCEPTOR INTERCONVERSION IN THYROID DYSFUNCTION.....	END	1R01 AM18424-01	2,025
MATHENY, JAMES L.....	ADRENERGIC RECEPTOR INTERCONVERSION IN HYPERTENSION.....	CVB	1R01 HL18063-01	5,500
MC KINNEY, RALPH V. JR.....	BASAL LAMINA AND PERMEABILITY OF GROWING CAPILLARIES.....	PTHA	2R01 DE03486-04	14,486
MULDOON, THOMAS G.....	FACTORS CONTROLLING STEROID HORMONE RECEPTOR ACTIVITY.....	END	5R01 AM17650-02	25,010
OKABE, TORU.....	DIFFUSION AND INTERFACIAL REACTION IN DENTAL AMALGAMS.....	DEN	7R23 DE04261-01	2,005
OKABE, TORU.....	DIFFUSION AND INTERFACIAL REACTION IN DENTAL AMALGAMS.....	DEN	5R23 DE04261-02	9,025
OKABE, TORU.....	AMALGAMATION KINETICS ON AG-SN (OX) ALLOYS.....	DEN	1R01 DE04262-01	49,100

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>GEORGIA—Continued</b>				
PASHLEY, DAVID H.....	PERMEABILITY CHARACTERISTICS OF DENTINE.....	DEN	5R23 DE03780-03	7,500
PUCHTLER, HOLDE.....	HISTOCHEMISTRY OF EARLY ARTERIOSCLEROTIC LESIONS.....	PTHA	5R01 HL12147-08	50,197
SCHUSTER, GEORGE S.....	VIRUS INFECTION OF SALIVARY GLANDS.....	DEN	2R01 DE03254-04	5,886
SINGH, BALDEV.....	KERATINIZATION OF NORMAL AND ALTERED EPITHELIUM.....	DEN	5R23 DE03655-03	8,994
SMITH, LINDA L.....	DISSOCIATION OF NORMAL AND ABNORMAL HEMOGLOBINS.....	BBCA	5R01 HL12958-09	22,540
WEBSTER, PAUL D, III.....	CONTROL OF PANCREATIC DUCTAL AND ACINAR CELL FUNCTION.....	GMA	2R01 AM13131-08	72,561
WRIGHT, CLAUDE-STARR.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	3R10 CA06807-12S1	46,652
ORGANIZATION TOTAL	38 2,375,791			
<b>CLAXTON</b>				
<b>EVANS COUNTY HEALTH DEPARTMENT ZIP CODE 30417</b>				
HAMES, CURTIS G.....	EPIDEMIOLOGY OF ATHEROSCLEROSIS IN EVANS COUNTY.....	EDC	5R01 HL03341-18	40,960
ORGANIZATION TOTAL	1 40,960			
<b>FORT VALLEY</b>				
<b>UNIVERSITY SYSTEM OF GEORGIA—FORT VALLEY STATE COLLEGE ZIP CODE 31030</b>				
BLACK, DAN T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	3S06 RR08084-01S1	3,840
ORGANIZATION TOTAL	1 3,840			
<b>SAVANNAH</b>				
<b>UNIVERSITY SYSTEM OF GEORGIA—SAVANNAH STATE COLLEGE ZIP CODE 31404</b>				
EMEH, C O.....	BIOMEDICAL RESEARCH: A MULTI-DISCIPLINARY APPROACH.....	GRS	1S06 RR08144-01	96,514
ORGANIZATION TOTAL	1 96,514			
<b>STATESBORO</b>				
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA SOUTHERN COLLEGE ZIP CODE 30458</b>				
OLIVER, JAMES H, JR.....	REPRODUCTION IN TICKS AND MITES.....	TMP	5R01 A109556-06	35,784
ORGANIZATION TOTAL	1 35,784			
STATE TOTAL	182 12,936,525			
<b>HAWAII</b>				
<b>HILO</b>				
<b>UNIVERSITY OF HAWAII SYSTEM—HILO COLLEGE ZIP CODE 96720</b>				
HILDEMAN, WILLIAM H.....	COMPARATIVE TRANSPLANTATION IMMUNOGENETICS.....	IMB	7R01 A113153-01	79,709
SOOD, SATYA P.....	FUNDAMENTAL BIOLOGIC STUDIES OF GROWTH CONTROL OF CELLS...	GRS	5S06 RR08073-04	153,211
ORGANIZATION TOTAL	2 232,920			
<b>HONOLULU</b>				
<b>BERNICE P. BISHOP MUSEUM ZIP CODE 96819</b>				
RADOVSKY, FRANK J.....	ECTOPARASITES OF THE PAPUAN SUBREGION.....	TMP	5R01 A111482-02	20,310
RADOVSKY, FRANK J.....	SUPPORT FOR JOURNAL OF MEDICAL ENTOMOLOGY.....	BCM	5R01 LM01954-03	7,380
ORGANIZATION TOTAL	2 27,690			
<b>CENTER FOR CULTURAL AND TECHNICAL INTERCHANGE BETWEEN EAST AND WEST ZIP CODE 96822</b>				
FAWCETT, JAMES T.....	STUDY OF MOTIVATIONS FOR HAVING CHILDREN.....	POP	5R01 HD08276-02	23,817
PALMORE, JAMES A, JR.....	REGRESSION ESTIMATION OF FERTILITY RATES.....	POP	1R01 HD09051-01	30,493
ORGANIZATION TOTAL	2 54,310			

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>HAWAII—Continued</b>				
<b>QUEEN'S MEDICAL CENTER      ZIP CODE 96808</b>				
MC NAMARA, JOSEPH J.	MYOCARDIAL VIABILITY AFTER CORONARY REPERFUSION	SGVB	2R01 HL14571-03A1	51,032
ORGANIZATION TOTAL	1		51,032	
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA      ZIP CODE 96822</b>				
ALLEN, RICHARD D.	MICROTUBULAR SYSTEMS	MBY	2R01 GM17991-04A1	62,933
ASHTON, GEOFFREY C.	GENETIC AND ENVIRONMENTAL BASES OF HUMAN COGNITION	DBR	5R01 HD06669-03	286,346
BENEDICT, ALBERT A.	IMMUNOGLOBULINS AND IMMUNE RESPONSES	ALY	5R01 AI05660-12	42,596
BRYANT, GILLIAN D.	THE RADIOIMMUNOASSAY OF RELAXIN AND ITS APPLICATIONS	END	3R01 HD06633-02S1	8,769
BRYANT, GILLIAN D.	THE RADIOIMMUNOASSAY OF RELAXIN AND ITS APPLICATIONS	END	2R01 HD06633-03	36,696
CHIU, ARTHUR N. L.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07026-10	50,006
CHUNG, CHIN S.	POPULATION STUDIES OF ORAL DISEASES IN HAWAII	EDC	5R01 DE02646-08	48,127
COOKE, IAN M.	CARDIAC PACEMAKER: BIOPHYSICAL INTEGRATIVE MECHANISMS	PHY	1R01 NS11808-01A1	38,675
DIAMOND, MILTON.	PREGNANCY, BIRTH CONTROL, AND ABORTION	POP	5R01 HD05853-04	61,829
FURUSAWA, EIICHI	STUDIES OF NARCISSUS ALKALOID WITH ANTILEUKEMIC ACTIVITY	ET	2R01 CA12733-04	31,763
GIBBONS, IAN R.	STRUCTURAL BASIS OF SPERMATOZOAN MOTILITY	MBY	5R01 HD06565-08	81,294
GILLARY, HOWARD L.	VISUAL MECHANISMS IN A REGENERATING GASTROPOD RETINA	VISB	1R01 EY01531-01	38,512
GREENWOOD, FREDRICK C.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	GRS	3S06 RR08125-01S1	2,233
GREENWOOD, FREDRICK C.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	GRS	5S06 RR08125-02	122,402
HALSTEAD, SCOTT	INFECTION ENHANCEMENT - AN EXPERIMENTAL MODEL OF AIDS	ALY	5R01 HD08693-02	46,470
HARTROFT, W. STANLEY	STUDIES ON CERODIOGENESIS	PTHA	5R01 AM15041-03	49,363
HERZBERG, MENDEL	IMMUNE RESPONSES TO LIVING AND HEAT-KILLED VACCINES	BM	5R01 AI08041-09	35,250
HUMPHREYS, TOM D.	DEVELOPMENTAL REGULATION OF MACROMOLECULAR SYNTHESIS	MBY	5R01 HD06574-05	54,723
HUNT, JOHN A.	CONTROL OF RNA SYNTHESIS IN ERYTHROID CELLS	PC	1R01 GM22312-01	79,736
JACOBS, PATRICIA A.	A PROGRAM OF RESEARCH IN POPULATION CYTOGENETICS	GEN	5R01 HD07879-02	105,361
KANE, ROBERT E.	MOLECULAR BIOLOGY OF FERTILIZATION AND EARLY MITOSIS	MBY	5R01 GM14363-10	24,557
KIEFER, EDGAR F.	THE STRUCTURE AND MODE OF ACTION OF COMPOUND 48/80	PHRA	5R01 GM18740-02	36,368
LENNEY, JAMES F.	METABOLISM OF CARNOSINE AND OTHER HISTIDYL COMPOUNDS	MET	5R01 NS08287-06	21,323
LICHTON, IRA J.	ANOREXIGENIC SUBSTANCE IN URINE	NTN	5R01 AM17427-02	15,671
LIU, ROBERT S.	NEW GEOMETRIC ISOMERS OF VITAMIN A AND CAROTENE	MCHA	1R01 AM17806-01	38,053
LOH, PHILIP C.	CYTOTOXIC VIRUSES IN CANCER DIAGNOSIS AND THERAPY	VR	5R01 CA13768-03	37,744
MI, MING-PI.	GENETIC STUDIES WITH RECORD LINKAGE	GEN	5R01 HD04275-05	40,999
MORTON, BRUCE E.	THE ACTIVATION AND SURVIVAL OF SPERM MOTILITY	REB	1R01 HD08711-01	50,098
MORTON, NEWTON E.	STUDY OF POPULATION GENETICS	GEN	2R01 GM17173-06	100,721
MORTON, NEWTON E.	GENETIC EPIDEMIOLOGY OF HYPERLIPEMIA	GEN	1R01 HL16774-01	86,662
NISHIMURA, EDWIN T.	CATALASE ISOZYMES IN NORMAL AND NEOPLASTIC TISSUES	PTHA	5R01 CA10130-10	81,028
NORTON, TED R.	EVALUATION OF ANTICANCER AGENTS IN NATURAL PRODUCTS	ET	2R01 CA12623-03A1	51,771
NORTON, TED R.	EVALUATION OF HEART STIMULANTS FOUND IN SEA ANEMONES	PHRA	5R01 HL15991-02	30,612
OISHI, NOBORU	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17984-01	78,559
PIETTE, LAWRENCE H.	ESR STUDIES OF BIOLOGICAL FREE RADICAL MECHANISMS	BBCB	5R01 CA10977-11	68,761
PIETTE, LAWRENCE H.	CANCER CENTER SUPPORT GRANT	CAP	3P01 CA15655-01S1	123,306
PIETTE, LAWRENCE H.	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	1P01 CA17675-01	113,544
POPPER, ARTHUR N.	PROCESSING OF ACOUSTIC INFORMATION	EXP	5R01 NS09374-05	22,073
PORTA, EDUARDO A.	DIETARY FACTORS IN AGING	NTN	1R01 AG00143-01	76,409
ROGERS, TERENCE A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05599-09	151,036
SEFF, KARL	CRYSTALLOGRAPHY OF ORGANIC DISULFIDE-METAL COMPLEXES	BBCA	2R01 GM18813-04	40,658
SKINSNES, OLAF K.	IMMUNOPATHOLOGIC MODEL FOR GRANULOMATOUS DISEASES	PTHB	5R22 AI10034-05	68,483
SODD, SATYA P.	GROWTH CONTROL OF CELLS, FUNDAMENTAL BIOLOGIC STUDIES	GRS	3S06 RR08073-03S1	34,586
STEVENS, ERNEST D.	MECHANISM OF HEAT PRODUCTION DURING COLD ADAPTATION	PHY	5R01 AM17336-02	21,596
STEVENS, ERNEST D.	ANALYSIS OF A VASCULAR HEAT EXCHANGER	PHY	5R01 HL16716-02	14,232
VANN, DOUGLAS C.	CELLULAR BASIS OF IMMUNE RESPONSES	ALY	5R01 AI10498-04	47,549
YANAGIMACHI, RYUZO	STUDIES ON IN VITRO FERTILIZATION OF MAMMALIAN EGGS	REB	5R01 HD03402-08	74,866
YASUNOBU, KERRY T.	STRUCTURAL STUDIES OF BIOLOGICALLY IMPORTANT PROTEINS	BIO	5R01 GM16228-07	33,831
YASUNOBU, KERRY T.	INVESTIGATIONS OF BOVINE LYSYL OXIDASE AND ELASTIN	BIO	5R01 GM21085-02	42,594
ORGANIZATION TOTAL	49		2,910,774	
STATE TOTAL	56		3,276,726	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator		Project title	IRG	Grant number	Dollars
<b>IDAHO</b>					
<b>BOISE</b>					
<b>ST. LUKE'S HOSPITAL</b>		<b>ZIP CODE 83702</b>			
LUCE, JAMES K.....	CANCER RESEARCH PROGRAM.....	CAP	5P01	CA15192-02	153,581
LUCE, JAMES K.....	WESTERN CANCER STUDY GROUP.....	CCI	5R10	CA15457-02	49,603
ORGANIZATION TOTAL	2 203,184				
<b>MOSCOW</b>					
<b>UNIVERSITY OF IDAHO</b>		<b>ZIP CODE 83843</b>			
DAVIS, STEVEN L.....	PROLACTIN SECRETION AND ITS REPRODUCTIVE FUNCTIONS.....	END	5R01	HD07830-04	38,232
MEAD, RODNEY A.....	HORMONAL CONTROL OF DELAYED IMPLANTATION.....	REB	2R01	HD06556-04	33,105
ORGANIZATION TOTAL	2 71,337				
STATE TOTAL	4 274,521				
<b>ILLINOIS</b>					
<b>CARBONDALE</b>					
<b>SOUTHERN ILLINOIS UNIVERSITY</b>		<b>ZIP CODE 62901</b>			
BOLEN, DAVID W.....	ELEMENTARY STEPS IN CHYMOTRYPSIN CATALYSIS.....	BBCA	1R01	GM22300-01	35,016
CORNWALL, JOHN L.....	ECONOMIC POLICY IN RELATION TO POPULATION GROWTH.....	POP	5R01	HD07645-02	19,268
DINGERSON, MICHAEL R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05	RR07118-06	19,426
DUNAGAN, TOMMY T.....	LACUNAR SYSTEM OF ACANTHOCEPHALA.....	TMP	1R01	AI12883-01	21,206
HARGRAVE, PAUL A.....	RHODOPSIN STRUCTURE AND FUNCTION.....	VISB	5R01	EY01275-02	18,046
LIT, ALFRED.....	EFFECTS OF ILLUMINATION ON BINOCULAR SPACE PERCEPTION.....	EXP	5R01	EY00383-13	41,249
ORGANIZATION TOTAL	6 154,211				
<b>CHAMPAIGN</b>					
<b>HARLAN E. MOORE HEART RESEARCH FOUNDATION</b>		<b>ZIP CODE 61820</b>			
KUMMEROW, FRED A.....	ANIMAL MODEL FOR STUDIES ON AVERTING ATHEROSCLEROSIS.....	NTN	5R01	HL15504-03	39,475
ORGANIZATION TOTAL	1 39,475				
<b>CHICAGO</b>					
<b>AMERICAN COLLEGE OF RADIOLOGY</b>		<b>ZIP CODE 60606</b>			
KRAMER, SIMON.....	CLINICAL AND RESEARCH RADIATION THERAPY IN CANCER CARE.....	SSS	5R18	CA15978-02	830,479
ROGERS, CHARLES C.....	INTERNATIONAL PARTICLE RADIATION THERAPY WORKSHOP.....	SRC	1R13	CA18400-01	47,966
WIZENBERG, MORRIS J.....	PLAN/PUBLISH RADIATION/HYPERTHERMIA THERAPY PROCEEDINGS.....	NSS	1R13	CA17526-01	23,559
WIZENBERG, MORRIS J.....	CONFERENCE ON CANCER THERAPY BY RADIATION & HYPERTHERMIA.....	NSS	1R13	CA17527-01	33,429
ORGANIZATION TOTAL	4 935,433				
<b>AMERICAN COLLEGE OF SURGEONS</b>		<b>ZIP CODE 60611</b>			
BEAHR'S, OLIVER H.....	AMERICAN JOINT COMMITTEE (CANCER STAGING).....	NSS	2R01	CA11606-06	169,871
BEAHR'S, OLIVER H.....	NATIONAL CONFERENCE ON CLASSIFICATION OF CANCER.....	NSS	1R13	CA17803-01	71,500
ORGANIZATION TOTAL	2 241,371				
<b>AMERICAN DENTAL ASSOCIATION</b>		<b>ZIP CODE 60611</b>			
BOWEN, RAFAEL L.....	IMPROVEMENT OF MATERIALS FOR PREVENTIVE DENTISTRY.....	DEN	5R01	DE02494-09	64,812
BROWN, WALTER E.....	CRYSTAL CHEMISTRY OF CALCIUM PHOSPHATES.....	SSS	5R01	DE00572-16	121,769
BROWN, WALTER E.....	SOLUBILITY AND DIFFUSION OF CALCIUM PHOSPHATES.....	DEN	2R01	DE02659-09	87,607
HOERMAN, KIRK C.....	AGING AND OPTICAL CHANGES IN TISSUES.....	BBCB	1R01	DE04352-01	31,440
HOERMAN, KIRK C.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01	RR05689-07	38,297



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
MABIE, CURTIS P.....	DENTAL PORCELAIN IMPROVEMENT WITH INORGANIC POLYMERS.....	DEN	1R01 DE04058-01	17,278
STANFORD, JOHN W.....	STANDARD TEST METHODS FOR BIOMATERIALS & INSTRUMENTATION.....	DEN	5R01 DE03505-07	93,375
ORGANIZATION TOTAL	7 454,578			
<b>CHICAGO BOARD OF HEALTH</b>	<b>ZIP CODE 60602</b>			
BERKSON, DAVID M.....	CARDIAC FUNCTION AND PROGNOSIS OF CORONARY DISEASE.....	TEC	3R01 HL14927-03S1	1,074
BERKSON, DAVID M.....	CARDIAC FUNCTION AND PROGNOSIS OF CORONARY DISEASE.....	TEC	5R01 HL14927-04	33,827
WHIPPLE, IRA T.....	MYOCARDIAL FUNCTION, RISK FACTORS AND FUTURE CHD.....	TEC	1R01 HL16908-01	30,495
ORGANIZATION TOTAL	3 65,396			
<b>CHICAGO STATE UNIVERSITY</b>	<b>ZIP CODE 60628</b>			
FOODEN, JACK.....	DEVELOPMENT OF FACULTY AND STUDENT RESEARCH COMPETENCE.....	GRS	5S06 RR08043-04	64,202
ORGANIZATION TOTAL	1 64,202			
<b>CHILDREN'S MEMORIAL HOSPITAL</b>	<b>ZIP CODE 60614</b>			
NADLER, HENRY L.....	ARGININE ESTERASE IN CYSTIC FIBROSIS.....	PC	1R01 AM18462-01	81,724
NADLER, HENRY L.....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.....	CLR	5M01 RR00199-11	364,059
NADLER, HENRY L.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05475-13	99,120
RAIMONDI, ANTHONY J.....	PATHOGENESIS OF HYDROCEPHALUS IN HY-3 AND CH MUTANTS.....	NEUB	5R01 NS09025-06	40,002
RAIMONDI, ANTHONY J.....	DEVELOPMENT IN HYDROCEPHALICES MYELOMENINGOCELES.....	DBR	1R01 NS12243-01	59,381
SCHWARTZ, ALLEN D.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	CCI	2R10 CA07431-12	137,100
STOUT, RONALD L.....	PATIENT DATA ACQUISITION AND ANALYSIS SYSTEM.....	COM	3R01 GM21293-01S1	1,559
WESSEL, HANS U.....	EXERCISE PERFORMANCE IN CHILDREN WITH HEART DISEASE.....	AFY	1R01 HL17578-01	112,132
ORGANIZATION TOTAL	8 895,077			
<b>DEPAUL UNIVERSITY</b>	<b>ZIP CODE 60604</b>			
WOODS, JAMES E.....	SEX HORMONE PRODUCTION AND SECRETION IN THE CHICK EMBRYO.....	HED	5R01 HD07420-02	21,640
ORGANIZATION TOTAL	1 21,640			
<b>HEALTH AND HOSPITALS GOVERNING COMMISSION OF COOK COUNTY—COOK COUNTY HOSPITAL</b>	<b>ZIP CODE 60612</b>			
BURKE, GERALD.....	THYROID STIMULATORS AND THYROID STIMULATION.....	END	5R01 AM17561-03	59,768
ORGANIZATION TOTAL	1 59,768			
<b>HENKTOEN INSTITUTE FOR MEDICAL RESEARCH</b>	<b>ZIP CODE 60612</b>			
HOFFMAN, SAMUEL J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05524-13	48,804
LEV, MAURICE.....	STUDY OF CONGENITAL HEART DISEASE.....	CVA	5R01 HL07605-13	60,218
LIU, MAI-SHAN.....	PERFLUOROCETYL BROMIDE IN MYELOGRAPHY AND LYMPHOGRAPHY.....	RAD	5R01 GM20730-02	92,593
MARKOWITZ, ABRAHAM S.....	RENAL DISEASE AND ALLOGRAFT EFFECTS OF STREPTOCOCCI.....	AMP	5P01 AM16944-02	166,051
ORGANIZATION TOTAL	4 367,666			
<b>IIT RESEARCH INSTITUTE</b>	<b>ZIP CODE 60616</b>			
EHRlich, RICHARD.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05744-01	47,452
KROTOSZYNSKI, B K.....	CHARACTERIZATION OF EFFLUENTS FROM NORMAL HUMAN LUNGS.....	AFY	1R01 HL16869-01A1	71,770
MOON, RICHARD C.....	CHEMICAL CARCINOGENESIS OF THE COLON.....	SRC	5R26 CA16370-02	75,794
ORGANIZATION TOTAL	3 195,016			
<b>ILLINOIS COLLEGE OF OPTOMETRY</b>	<b>ZIP CODE 60616</b>			
CHINO, YUZO M.....	STEREOPSIS IN ANIMALS.....	VISB	1R01 EY01444-01A1	24,871
ORGANIZATION TOTAL	1 24,871			
<b>ILLINOIS INSTITUTE OF TECHNOLOGY</b>	<b>ZIP CODE 60616</b>			
BROWN, JOE N, JR.....	ANTINEOPLASTIC THIOSEMICARBAZONE ACTIVITY.....	BBCA	1R01 CA17594-01	31,845
BRUBAKER, GEORGE R.....	STEREOCHEMISTRY AND REACTIVITY OF METAL CHELATES.....	MCHB	1R01 GM18600-01A2	46,579
BUSH, C ALLEN.....	STRUCTURE AND CONFORMATION OF OLIGOSACCHARIDES.....	BBCA	5R01 AI11014-03	35,995
GROSSWEINER, LEONARD I.....	FAST PHOTOSENSITIZED REACTIONS OF AROMATIC COMPOUNDS.....	BBCA	5R01 GM20117-12	53,124
GURALNICK, SIDNEY A.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07027-10	19,015
HOSKIN, FRANCIS C.....	BIOCHEMICAL BASIS OF OP PESTICIDE EFFECTS ON FUNCTION.....	TOX	5R01 NS09090-05	75,751
KOPPLE, KENNETH D.....	CONFORMATION AND PROPERTIES OF PEPTIDES.....	BBCB	5R01 GM14069-10	71,055
KUSANO, KIYOSHI.....	ELECTROPHYSIOLOGY OF SYNAPTIC TRANSMISSION.....	NEUA	1R01 NS12275-01	31,626

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
WEBSTER, DALE A.....	THE REACTION OF CYTOCHROME O WITH OXYGEN.....	SSS	1R01 GM20006-01A2	44,417
ORGANIZATION TOTAL	9 409,407			
<b>ILLINOIS STATE DEPARTMENT OF MENTAL HEALTH—ILLINOIS STATE PSYCHIATRIC INSTITUTE ZIP CODE 60612</b>				
KARRER, RATHE.....	ANALYSIS OF RESPONSE SPEED IN MENTAL RETARDATION.....	DBR	5R01 HD08265-02	26,741
ORGANIZATION TOTAL	1 26,741			
<b>INDIVIDUAL AWARD-KING, LESTER S. ZIP CODE 60613</b>				
KING, LESTER S.....	THE MEDICAL ENLIGHTENMENT, 1695-1750.....	HLS	5R01 LM01804-03	13,250
ORGANIZATION TOTAL	1 13,250			
<b>INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH ZIP CODE 60611</b>				
FRECHETTE, ARTHUR R.....	BLOC TRAVEL FOR N.I.D.R. SUPPORTED INVESTIGATORS.....	NSS	1R13 DE04080-01	35,514
ORGANIZATION TOTAL	1 35,514			
<b>MERCY HOSPITAL AND MEDICAL CENTER ZIP CODE 60616</b>				
HAWRYLEWICZ, ERVIN J.....	IDENTIFICATION OF BREAST TUMOR ISOENZYMES.....	PTHB	5R01 CA13028-04	26,283
ORGANIZATION TOTAL	1 26,283			
<b>MICHAEL REESE HOSPITAL AND MEDICAL CENTER ZIP CODE 60616</b>				
ARBEL, EMANUEL R.....	ELECTROPHYSIOLOGY OF VERATRINE IN THE MAMMALIAN HEART.....	CVB	1R01 HL17350-01	42,108
AULETTA, FREDERICK J.....	THE MECHANISM OF ESTROGEN-INDUCED LUTEOLYSIS.....	REB	1R01 HD09260-01	41,049
COHEN, SIDNEY.....	METHICILLIN RESISTANCE IN STAPHYLOCOCCI.....	GEN	5R01 A02457-17	45,329
DIAMOND, RICHARD D.....	CELLULAR IMMUNITY IN OPPORTUNISTIC MYCOSES.....	BM	1R01 AI12145-01	59,448
GLICK, GERALD.....	RELATION OF CARDIAC LYMPH TO MYOCARDIAL INFARCTION.....	CVB	5R01 HL16615-02	61,491
GOLDMAN, JOHN N.....	IMMUNOLOGIC AND GENETIC CONTROL OF HUMORAL IMMUNITY.....	ALY	1R01 AI12792-01	84,999
HIRSCH, LEROY J.....	PHYSIOLOGICAL CONTROL OF THE SPLANCHNIC CIRCULATION.....	CVB	5R01 HL15607-03	100,883
KING, CHARLES M.....	ROLE OF ALTERED NUCLEIC ACID IN CARCINOGENESIS.....	ET	2R01 CA13179-04A1	81,282
KING, CHARLES M.....	MECHANISMS OF URINARY BLADDER TUMORIGENESIS.....	SRC	5R26 CA15640-02	94,633
LEVITSKY, LYNNE L.....	ENERGY METABOLISM IN THE NEONATE.....	MET	1R01 HD08608-01	32,943
LEVITSKY, LYNNE L.....	FUNCTIONAL MATURATION OF THE ENDOCRINE PANCREAS.....	MET	5R01 HD08948-02	23,063
NATELSON, SAMUEL.....	GUANIDINO COMPOUND IN HEALTH AND DISEASE.....	PTHA	2R01 AM09958-11	48,034
OVADIA, JACQUES.....	RADIATION SENSITIZATION MECHANISMS IN CANCER THERAPY.....	RAD	5R01 CA13307-02	82,339
PESCH, LE ROY A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05476-13	112,168
SHERWOOD, LOUIS M.....	THE CHEMISTRY AND PHYSIOLOGY OF PLACENTAL LACTOGEN.....	END	5R01 HD08225-03	63,587
ORGANIZATION TOTAL	15 973,356			
<b>NATIONAL OPINION RESEARCH CENTER ZIP CODE 60637</b>				
CLARK, TERRY N.....	POPULATION CHARACTERISTICS AND CITIZEN POLICY.....	POP	1R01 HD08916-01	35,030
ORGANIZATION TOTAL	1 35,030			
<b>NORTHWESTERN UNIVERSITY ZIP CODE 60611</b>				
ANDERSON, BYRON E.....	STUDY OF RHEUMATOID ARTHRITIS.....	GMA	5R01 AM16326-03	30,197
APPLEBAUM, EDWARD L.....	AUDITORY ACUITY WITH COCHLEAR HYDROPS.....	CMS	1R01 NS11849-01	15,599
BERNIK, MARIA B.....	FIBRINOLYTIC EVENTS IN HUMAN TISSUES & CELLS IN CULTURE.....	CBY	5R01 AM14018-06	60,034
BERRY, ROBERT W.....	STUDIES ON THE REGULATION OF NEURONAL PROTEIN SYNTHESIS.....	NEUA	5R01 NS11519-02	19,584
BONDAREFF, WILLIAM.....	AGE CHANGES IN THE NEURONAL MICROENVIRONMENT.....	NEUA	5R01 HD07547-02	30,237
BREUER, RICHARD I.....	MECHANISM OF GLUCOSE DISPOSITION AFTER GASTRIC SURGERY.....	SGYB	3R01 AM16659-02S1	21,334
BREWER, JOHN I.....	STUDIES OF TROPHOBLASTIC DISEASE.....	ET	5R01 CA12109-05	158,104
BRUCE, DAVID L.....	STUDIES ON CONTROL OF CELL DIVISION.....	ET	5R01 GM19719-03	45,468
CARHART, RAYMOND T.....	OUTPATIENT RESEARCH CENTER FOR SENSORINEURAL DEAFNESS.....	CDR	5P15 NS07791-07	94,880
CARONE, FRANK A.....	TRANSPORT OF MACROMOLECULES ACROSS CELLS AND MEMBRANES.....	GMB	5R01 AM14610-05	25,417
CHEN, CHIADAO.....	MODE OF ACTION OF CHEMICAL CARCINOGENESIS.....	ET	5R01 CA15030-02	43,040
CHEN, CHING-PING W.....	ENVIRONMENTAL EFFECT ON TENSILE PROPERTIES OF AMALGAM.....	DEN	1R23 DE04240-01	14,160
CORCORAN, JOHN W.....	ANTIMETABOLITES DERIVED FROM THE ACTINOMYCETES.....	MBG	5R01 A09158-06	31,803
DEWYS, WILLIAM D.....	CLINICAL TRIALS—EASTERN COOPERATIVE ONCOLOGY GROUP.....	CCI	1R10 CA17145-01	112,663
DEWYS, WILLIAM D.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA18004-01	76,567
DIAMOND, JACK.....	ROLE OF CAMP AND CGMP IN DRUG EFFECTS ON SMOOTH MUSCLE.....	PHRA	2R01 HD05827-04	47,101
DISTERHOFT, JOHN F.....	AUDITORY NEUROPSYCHOLOGY.....	NP	1R01 NS12317-01	39,752

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
DUNCAN, JAMES L.	STREPTOLYSIN O ACTION ON MAMMALIAN CELL MEMBRANES	BM	5R01 AI11644-02	23,911
ECKENHOFF, JAMES E.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	2M01 RR00048-14	468,513
ECKENHOFF, JAMES E.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05370-14	203,403
ENROTH-CUGELL, C. A.	RETINAL GANGLION CELL RESPONSES TO TIME VARYING STIMULI	VIS	3R01 EY00206-13S1	1,144
ENROTH-CUGELL, C. A.	RETINAL GANGLION CELL RESPONSES TO TIME-VARYING STIMULI	VIS	5R01 EY00206-14	55,558
FARBMAN, ALBERT I.	DIFFERENTIATION OF ORAL EPITHELIUM	DEN	5R01 DE03934-02	55,219
FARBMAN, ALBERT I.	CYTOLOGICAL STUDIES OF INDUCTION DURING DEVELOPMENT	CMS	2R01 NS06181-07A1	29,237
FLOURET, GEORGE R.	SYNTHETIC ANTIVOLUTARY AGENTS	MCHA	1R01 HD08869-01	45,475
FREINKEL, NORBERT	REGULATORY MECHANISMS IN METABOLISM	MET	5R01 AM10699-10	174,408
FREINKEL, RUTH K.	INTERMEDIATE METABOLISM IN EPIDERMAL DIFFERENTIATION	GMA	5R01 AM16441-09	57,040
GOLDSTONE, A.	SYNTHESIS AND TURNOVER OF KIDNEY HEXOSAMINIDASES	PC	1R01 AM18052-01	37,631
GRAYHACK, JOHN T.	ENZYMES IN DIAGNOSIS AND STAGING OF PROSTATIC CANCER	SRC	5R26 CA16736-02	37,065
GREENER, EVAN H.	PROPERTIES OF HIGH COPPER CONCENTRATION AMALGAMS	DEN	1R01 DE03637-01	30,102
HARRIS, STANLEY C.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05311-14	33,689
HECHTER, OSCAR M.	CYCLIC NUCLEOTIDES IN UTERINE AND SPERM FUNCTIONS	HOPR	5P01 HD06273-04	95,613
HINKLEY, ROBERT E., JR.	ANESTHETIC ALTERATION OF CELL STRUCTURE AND FUNCTION	PHRA	5R01 GM19813-03	39,830
HOLLAND, JAMES M.	HORMONE DEPENDENT UROGENITAL TUMORS IN RODENTS	PTHB	2R01 CA10286-07	30,299
HSU, CLEMENT C.	ALTERATIONS OF IMMUNE RESPONSES DURING PREGNANCY	ALY	5R01 AI12085-02	56,215
JENNINGS, ROBERT B.	MYOCARDIAL CELL INJURY	CVA	5R01 HL08729-12	89,848
KAHAN, BARRY D.	AN IMMUNOLOGIC APPROACH TO TROPHOBLASTIC NEOPLASIA	IMB	5R01 CA14694-03	53,655
KAHAN, BARRY D.	ANTIGENIC STIMULUS IN HUMAN COLON CARCINOMA IMMUNITY	SRC	5R26 CA15434-03	99,414
KOENIG, HAROLD	RELATIONSHIP OF BRAIN ARYLSULFATASE A AND B	BIO	1R01 NS11944-01A1	25,931
KURAMITSU, HOWARD K.	DEXTRANUCRASE AND DENTAL PLAQUE FORMATION	MCB	5R01 DE03258-04	39,072
KWAAN, HAU C.	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP	CCI	3R10 CA13236-03S1	52,774
KWAAN, HAU C.	NEW TECHNIQUES IN DIAGNOSIS AND DETECTION OF THROMBI	CVA	5R01 HL16253-02	55,434
KWAAN, HAU C.	UROKINASE FOR RETINAL VEIN THROMBOSIS	CVA	1R01 HL17938-01	16,784
LEE, CHUNG	ESTROGEN ACTION ON DMBA-INDUCED RAT MAMMARY TUMORS	END	2R01 CA14727-02	37,258
LEESTMA, JAN E.	PATHOLOGICAL ASPECTS OF NEUROPLASMIC FLOW	PTHA	5R01 NS11559-02	31,959
LEWIS, F. JOHN	CONTINUOUS MONITORING WITH A SMALL DIGITAL COMPUTER	SGYA	5R01 HL10177-10	141,583
MARSHALL, GRAYSON W., JR.	REPLICA-SEM STUDIES OF IN VIVO DENTAL MORPHOLOGIES	DEN	1R23 DE04000-01	10,508
MIEVAL, JOHN J.	HEMOPROTEIN - DRUG INTERACTIONS: ROLE IN METABOLISM	BBCB	3R01 GM20050-01S1	4,290
NOFFSINGER, PAUL D.	DICHOTIC AUDITORY BEHAVIOR FOLLOWING CORTICAL LESION	CMS	1R01 NS11859-01A1	50,482
OKITA, GEORGE T.	BIOCHEMICAL STUDIES ON CNS TERATOGENESIS BY MERCURY	TOX	5R01 ES00833-03	53,753
ORR, MARY F.	DEVELOPMENT AND CYTODIFFERENTIATION OF THE INNER EAR	CMS	2R01 NS08569-07	35,274
OYASU, RYOICHI	IN VITRO BLADDER CARCINOGENESIS OF NITROSOAMINES	SRC	1R26 CA18585-01	14,203
PATERSON, PHILIP Y.	IMMUNE BASIS OF DISEASE-ALLERGIC ENCEPHALOMYELITIS	IMB	5R01 NS06262-11	101,234
PATTERSON, ROY	ALLERGIC DISEASES CENTERS GRANT	SRC	5P15 AI11403-03	106,370
PATTERSON, ROY	CLINICAL & LABORATORY STUDIES RELATING TO LUNG DISEASE	SRC	5P01 AI11759-02	70,669
POTTER, ELIZABETH V.	RHEUMATOGENIC AND NEPHRITIC INFECTIONS	BM	2R01 AI10980-03	26,165
PYSH, JOSEPH J.	MORPHOLOGY AND CYTOPHYSIOLOGY OF SYNAPTIC TRANSMISSION	NEUA	5R01 NS11325-02	22,030
RAFFERTY, NANCY S.	ETIOLOGY OF CATARACTS	VIS	5R01 EY00698-05	26,983
RANNEY, DAVID F.	CHALONE REGULATION OF HUMAN LYMPHOID NEOPLASMS	ET	5R01 CA15673-02	27,033
SCHWARTZ, NEENA B.	ENVIRONMENTAL AND HORMONAL INTERPLAY OF OVULATION	REB	5R01 HD07504-03	102,168
SLADE, HUTTON D.	STREPTOCOCCAL SURFACE ANTIGENS AND DENTAL CARIES	DEN	5R01 DE03615-03	43,000
SLADE, HUTTON D.	BIOLOGICAL ACTIVITIES OF GROUP A STREPTOCOCCUS	BM	5R01 HL03709-18	42,534
SMITH, DAVID W.	AMINOACYL TRANSFER RNA SYNTHETASES IN RETICULOCYTES	PC	5R01 AM16674-02	52,556
SPELMANN, RAINER	PHARMACOLOGY OF SYNAPTIC TRANSMISSION IN THE BRAIN	NEUA	5R01 NS06820-08	32,592
STERN, PAULA H.	EFFECTS OF HORMONES ON BONE RESORPTION IN VITRO	GMB	5R01 AM11262-09	56,128
TELSE, ALVIN G.	FLAGELLAR REGENERATION IN CHLAMYDOMONAS REINHARDII	CBY	1R01 HD09108-01	40,283
VEIS, ARTHUR	THE STRUCTURE AND ORGANIZATION OF COLLAGEN FIBERS	GMA	5R01 AM13921-15	98,492
VEIS, ARTHUR	MATRIX COMPONENT INTERACTIONS IN CALCIFIED TISSUES	PC	2R01 DE01374-15	60,150
WEBSTER, LESLIE T., JR.	PHARMACOLOGY OF SALICYLATES AND HEPATIC FUNCTION	PHRA	2R01 AM16082-04	43,591
WILBER, JOHN F.	THYROTROPIN-RELEASING FACTOR SECRETION AND ACTIONS	END	3R01 AM14997-04S1	11,993
WILBER, JOHN F.	SECRETION AND ACTIONS OF THYROTROPIN-RELEASING FACTOR	END	2R01 AM14997-05	68,639
YOUNG, GUY P.	ACQUIRED IMMUNITY IN TUBERCULOSIS	BM	2R22 AI01636-18	109,678
ZELLER, E. ALBERT	CHEMISTRY AND PHYSIOLOGICAL ROLE OF OCULAR ENZYMES	VIS	5R01 EY00313-08	29,690
ORGANIZATION TOTAL	73	4,324,492		
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER ZIP CODE 60612</b>				
APIER, JULIA T.	MECHANICAL PROPERTIES OF TISSUES	SGYA	5R01 GM14659-08	66,474



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
BACUS, JAMES W.	PATTERN RECOGNITION STUDIES OF PERIPHERAL BLOOD CELLS	COM	5R01 HL14492-04	88,401
BECKER, FRANK O.	RELATION OF TREATMENT OF DIABETIC COMPLICATIONS	SSS	5R01 AM06739-13	64,986
BEZKOROVAINY, ANATOLY	STUDY OF PROTEINS OF HUMAN AND BOVINE COLOSTRUM AND MILK	PC	5R01 HD05657-04	45,593
BOOYSE, FRANCOIS M.	CHARACTERIZATION OF CULTURED AORTIC ENDOTHELIAL CELLS	PTHA	1R01 HL17973-01	62,948
COLE, EDMOND R.	STUDY OF PLASMINOGEN ACTIVATORS FROM TISSUES	HEM	5R01 HL15817-03	40,031
DEINHARDT, FRIEDRICH W.	SLOW VIRUS INFECTIONS OF HUMAN BRAIN	VR	5R01 AI09628-05	46,406
GARLAND, JOHN T.	HORMONAL CONTROL OF GROWTH AND DEVELOPMENT	END	5R01 HD06706-03	28,382
GARRON, DAVID C.	STUDY OF TURNER'S SYNDROME	DBR	5R01 HD03742-07	37,901
GEWURZ, HENRY	STUDIES OF THE BIOLOGY OF THE C-REACTIVE PROTEINS	ALY	1R01 AI12870-01	129,593
HARTMANN, J. FRANCIS	ELECTRON MICROSCOPY OF CEREBRAL TISSUE	NEUB	2R01 NS05591-11A1	60,869
HEJNA, WILLIAM F.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05477-13	137,906
HENDRICKSON, FRANK R.	RADIATION THERAPY ONCOLOGY GROUP	CCI	3R10 CA12255-02S2	25,760
HENDRICKSON, FRANK R.	COOPERATIVE STUDY OF RADIATION THERAPY	CCI	2R10 CA12255-03A1	36,700
HUGHES, WILLIAM F., III	NEURONAL DEVELOPMENT IN THE VISUAL SYSTEM	VISB	1R23 EY01477-01	10,172
KNOSPE, WILLIAM H.	SOUTHEASTERN CANCER STUDY GROUP	CCI	3R10 CA12640-03S1	12,626
KNOSPE, WILLIAM H.	COOPERATIVE STUDY OF CANCER	CCI	2R10 CA12640-04	55,108
KUETTNER, KLAUS E.	BIOCHEMISTRY OF BONE AND CONNECTIVE TISSUE	PC	5R01 AM09132-11	78,731
KUETTNER, KLAUS E.	ORGANIZATION OF ARTERIAL GROUND SUBSTANCE	MBY	5R01 HL14698-03	44,057
MC KENNA, RAJALAXMI	ELUCIDATION OF HYPERCOAGULABILITY STATES	HEM	5R01 HL14636-03	20,413
MICHAEL, JOEL A.	REGIONAL CEREBROVASCULAR RESPONSES TO HYPOXIA	NEUB	1R01 NS12432-01	38,930
NONOYAMA, MEIHAN	STUDY OF THE ONCOGENICITY OF THE EPSTEIN-BARR VIRUS	VR	5R01 CA15281-02	61,318
PERLIA, CHARLES P.	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA10948-07	148,704
RAFELSON, MAX E., JR.	BIOCHEMICAL CHARACTERIZATION OF PLATELET COMPONENTS	HEM	5R01 HL07565-13	62,349
TAYLOR, SAMUEL G., III	EXPLORATORY STUDY FOR A CANCER INSTITUTE EXTENSION	SRC	3P01 CA13317-02S1	57,380
TROBAUGH, FRANK E., JR.	CORRELATIVE STUDIES OF VIABILITY OF BONE MARROW	HEM	5R01 CA04144-17	100,363
WILBANKS, GEORGE D., JR.	GYNECOLOGICAL ONCOLOGY GROUP	CCI	5R10 CA12485-05	26,624
ORGANIZATION TOTAL	27	1,588,725		
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER—RUSH UNIVERSITY ZIP CODE 60612</b>				
CLASEN, RAYMOND A.	EXPERIMENTAL LEAD ENCEPHALOPATHY	TOX	5R01 ES00775-02	21,910
FLANAGAN, MALACHI J.	NATIONAL BLADDER CANCER COLLABORATIVE GROUP A (NBCCGA)	SRC	5R26 CA16886-02	52,439
GALANTE, JORGE O.	TOTAL SURGICAL REPLACEMENT OF THE HUMAN HIP JOINT	SGYB	3R01 AM16485-03S1	3,364
GALANTE, JORGE O.	TOTAL SURGICAL REPLACEMENT OF THE HUMAN HIP JOINT	SGYB	5R01 AM16485-04	89,631
HENDRICKSON, FRANK R.	CANCER SUPPORT GRANT (SPECIALIZED)	CAP	1P01 CA17086-01	357,339
HOEPPNER, THOMAS J.	EPILEPTOGENIC FACTORS IN ALUMINA CREAM LESIONS	NEUB	1R01 NS11541-01A1	24,850
ORGANIZATION TOTAL	6	549,533		
<b>UNIVERSITY OF CHICAGO ZIP CODE 60637</b>				
AGARWAL, KAN L.	NUCLEIC ACID-PROTEIN INTERACTIONS	PC	1R01 GM22199-01	54,069
ANAGNOSTOPOULOS, C E.	STUDY OF GROWTH IN VASCULAR GRAFTS	SGYA	5R01 HL15239-02	25,911
BAKER, WILLIAM K.	GENETIC CONTROL OF DIFFERENTIAL CELL FUNCTION	GEN	5R01 GM07428-15	49,605
BORENSZTAJN, JAYME	PHYSICAL EXERCISE AND LIPOPROTEIN LIPASE ACTIVITY	AFY	5R01 AM16831-02	31,168
BORENSZTAJN, JAYME	HEART LIPOPROTEIN LIPASE AND HYPERTRIGLYCERIDEMIAS	MET	1R01 HL17296-01	47,953
BOWMAN, JAMES E.	SUPPORT FOR COMPREHENSIVE SICKLE CELL CENTER	SRC	5P18 HL16005-02	458,897
BOYER, JAMES L.	MECHANISMS OF BILE SECRETION - ROLE OF SODIUM TRANSPORT	GMA	5R01 AM17153-02	62,405
CHIANG, KWEN-SHENG	NUCLEUS-ORGANELLE INTERACTION AND DIFFERENTIATION	SSS	1R01 GM21955-01	46,661
CHIANG, KWEN-SHENG	MEIOSIS AND REPRODUCTION	CBY	5R01 HD05804-05	67,041
COHEN, LOUIS	DUCHENNE'S MUSCULAR DYSTROPHY: THERAPY & BASIC STUDIES	PHRA	5R01 NS10385-02	54,326
COULTER, CHARLES L.	PANCREATIC HORMONES: STRUCTURE AND FUNCTION	BBCA	1R01 AM18392-01	34,668
COZZARELLI, NICHOLAS R.	ENZYMOLOGICAL AND GENETIC STUDIES OF DNA POLYMERASES	MBC	3R01 GM21397-01S1	6,710
CREWE, ALBERT V.	SCANNING MICROSCOPE LABORATORY FOR GENERAL FACULTY USE	MBY	1P07 RR00984-01	233,711
DAWSON, GLYN	GLYCOPHINGOLIPID METABOLISM AND MENTAL RETARDATION	NEUA	2R01 HD06426-04	56,377
DE BRUYN, PETER P.	LEUKOPOIETIC MECHANISMS	HEM	5R01 CA05493-15	114,923
DE GROOT, LESLIE J.	BIOSYNTHESIS OF THYROID HORMONE	END	5R01 AM13377-08	90,464
DE GROOT, LESLIE J.	THYROGLOBULIN MRNA: ISOLATION AND CHARACTERIZATION	MBY	5R01 AM17310-02	42,984
DEUEL, RUTHMARY K.	ROLE OF INTRACORTICAL PATHWAYS IN MOTOR FUNCTION	EXP	5R01 NS10601-03	39,975
DEUEL, THOMAS F.	ENZYME REGULATION IN NORMAL AND NEOPLASTIC CELLS	BIO	5R01 CA13980-03	48,682
DORFMAN, ALBERT	BIOCHEMISTRY AND BIOLOGY OF CONNECTIVE TISSUE	AMP	5P01 AM05996-14	306,095
DORFMAN, ALBERT	CENTER GRANT FOR MENTAL RETARDATION RESEARCH CENTER	HDMR	5P01 HD04583-07	417,024
DORFMAN, ALBERT	BIOLOGICAL BASIS OF MENTAL RETARDATION	HDMR	1P01 HD09402-01	236,236



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
DORFMAN, ALBERT	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	CLR	5M01 RR00305-09	440,147
EATON, PHILIP E.	TUMOR INHIBITORS FROM DODECAHEDRANE AND PERISTYLANE	MCHA	5R01 CA12961-04	100,173
ELKIND, MORTIMER M.	FERMIAB THERAPY FACILITY—INITIAL BIOLOGY PROGRAM	RAD	1R01 CA18434-01	46,252
ENKER, WARREN E.	EXPERIMENTAL COLONIC CARCINOMA - IMMUNOLOGIC EVALUATION	PTHB	5R01 CA15777-02	50,325
EPSTEIN, WOLFGANG	MECHANISM OF POTASSIUM TRANSPORT IN E. COLI	BIO	1R01 GM22323-01	26,148
ERNEST, J. TERRY	FACTORS AFFECTING OPTIC PAPILLA OXYGENATION	VISA	2R01 EY00792-04	30,615
FERGUSON, DONALD J.	SELECTION OF CANCER THERAPY BY UPTAKE OF CESIUM 131	RAD	5R01 CA13351-03	28,147
FISCHMAN, DONALD A.	INTERCELLULAR JUNCTIONS IN CARDIAC MORPHOGENESIS	CBY	5R01 HL13505-05	47,114
FITCH, FRANK W.	ANTIBODY FORMATION BY LYMPHOID CELLS	ALY	5R01 A104197-14	36,676
FOX, EUGENE N.	THE CHEMISTRY AND IMMUNOLOGY OF STREPTOCOCCAL ANTIGENS	ALY	2R01 A104342-14	92,276
FOZZARD, HARRY A.	MECHANISM OF THE HEART BEAT	CVA	5R01 HL11665-09	60,658
FRESE, UWE ERNST	ESTROGEN AND PROGESTERONE RECEPTORS IN MOUSE OVIDUCT	REB	1R01 HD09267-01	29,294
FRIED, JOSEF	SYNTHESIS OF PROSTAGLANDINS AND PROSTAGLANDIN ANALOGS	MCHA	2R01 AM11499-09	76,452
FRIEDMANN, HERBERT C.	ENZYME STUDIES ON VITAMIN B12 AND ITS CONSTITUENTS	MBC	2R01 AM09134-10	51,024
GARBER, BEATRICE B.	NEURAL CELL RECOGNITION FACTORS IN BRAIN HISTOGENESIS	NEUB	5R01 NS10714-03	42,545
GETZ, GODFREY S.	LIPIDS AND CONTROL OF MITOCHONDRIAL BIOGENESIS	MBY	3R01 GM18858-03S1	2,629
GETZ, GODFREY S.	LIPIDS AND CONTROL OF MITOCHONDRIAL BIOGENESIS	MBY	2R01 GM18858-04	98,742
GILL, WILLIAM B.	CALCIUM OXALATE SUPERSATURATION AND CRYSTALLIZATION	BBCB	5R01 AM17719-02	50,752
GOEDKEN, VIRGIL L.	THE CHEMISTRY OF IRON IN HIGHLY UNSATURATED LIGANDS	MCHB	5R01 HL14827-04	57,313
GOLDBERG, JAY M.	PHYSIOLOGY OF VESTIBULAR SYSTEM	NEUB	5R01 NS01330-19	102,361
GOLDWASSER, EUGENE	FORMATION OF ERYTHROPOIETIN IN CELL CULTURE	HEM	5R01 AM17498-02	43,785
GOLDWASSER, EUGENE	HEMOPOIETIC STEM CELLS AND INDUCED DIFFERENTIATION	HEM	1R01 CA18375-01	22,790
HALPERN, JACK	METAL COMPLEXES RELATED TO VITAMIN B12	MCHB	5R01 AM13339-07	68,857
HARVEY, RONALD G.	CHEMISTRY OF CARCINOGENIC HYDROCARBONS	MCHB	2R01 CA11968-04	50,725
HASELKORN, ROBERT	PROTEIN SYNTHESIS IN VIRUS-INFECTED BACTERIA	SSS	2R01 A109315-11	102,698
HASELKORN, ROBERT	DIFFERENTIATION IN NITROGEN-FIXING BLUE-GREEN ALGAE	MBY	1R01 GM21823-01	43,550
HAVIGHURST, ROBERT J.	HIGH LEVEL PRODUCTIVITY AFTER AGE SEVENTY	DBR	1R01 HD08879-01	29,848
HELLER, ALFRED	ONTOGENESIS AND NEUROCHEMISTRY OF BRAIN FUNCTION	NSPB	1P01 NS12324-01	415,358
HINOJOSA, RAUL	COMPARATIVE STUDIES OF THE VESTIBULAR SYSTEM	CMS	5R01 NS06809-09	85,207
HOPPER, JOHN E.	STUDIES ON GENETIC CONTROL OF IMMUNOGLOBULIN SYNTHESIS	ALY	2R01 A10580-04	44,756
HUBBY, JOHN L.	GENETIC STUDIES OF PROTEIN DIFFERENCES	GEN	5R01 GM11216-12	74,087
HUGGINS, CHARLES B.	HORMONE-INDUCED REGRESSION OF CANCERS	ET	5R01 CA11603-06	196,269
HUNTER, ROBERT L.	SELECTIVE STIMULATION OF CELL-MEDIATED CANCER IMMUNITY	IMB	5R01 CA14364-03	52,271
HUNTER, ROBERT L.	IMMUNOLOGIC EVALUATION AND THERAPY OF BREAST CANCER	ET	1R01 CA17525-01	70,666
HUTCHENS, JOHN O.	INTERACTIONS OF PESTICIDES, DRUGS, AND OTHER CHEMICALS	TOX	5R01 ES00109-10	90,787
HUTCHENS, JOHN O.	RETENTION OF AEROSOLS IN LABORATORY ANIMALS	PTHA	5R01 ES00855-02	72,681
HUTCHISON, CLYDE A. JR.	LOCAL STRUCTURE IN ENZYMES—A NEW APPROACH	BBCB	1R01 GM21668-01	74,883
HUTTENLOCHER, JANELLEN	CONCEPTUAL DEVELOPMENT AND LANGUAGE COMPREHENSION	EXP	1R01 HD09283-01	62,972
HUTTENLOCHER, PETER R.	SYNAPTIC AND DENDRITIC DEVELOPMENT AND MENTAL DEFECT	NEUA	1R01 HD09335-01	42,391
JACOBSON, LEON O.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00055-14	644,435
JACOBSON, LEON O.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05367-14	255,345
JARABAK, JOSEPH W.	PROSTAGLANDIN METABOLISM IN THE HUMAN PLACENTA	HED	5R01 HD07045-03	38,170
JENSEN, ELWOOD V.	STERIODS AND GROWTH	END	5R01 CA02897-19	87,893
JENSEN, ELWOOD V.	STUDY OF BIOMEDICAL ASPECTS OF THE POPULATION PROBLEM	HDPR	5P01 HD07110-03	534,044
KAISER, EMIL T.	THE MECHANISM OF CARBOXYPEPTIDASE ACTION	BIO	5R01 AM07957-12	46,483
KAISER, EMIL T.	SELECTIVE ALKYLATION IN BIOLOGICAL SYSTEMS	SSS	1R01 CA17150-01	56,592
KAISER, EMIL T.	A STUDY OF THE BASIS OF CYCLIC AMP ACTION	BIO	2R01 GM19037-04	23,394
KANE, EILEEN S.	CENTRAL AUDITORY SYSTEM CONNECTIONS	CMS	1R01 NS12071-01	38,546
KATZ, ADRIAN I.	NA-K-ATPASE AND RENAL TUBULAR TRANSPORT OF SODIUM	GMB	5R01 AM13601-04	41,003
KEZDY, FERENC J.	PHYSICAL AND CATALYTIC BEHAVIOR OF HYDROLYTIC ENZYMES	BIO	2R01 GM13885-10	67,002
KIEFF, ELLIOTT D.	EBV INTERACTION WITH LYMPHOBLASTS IN VITRO AND IN VIVO	VR	1R01 CA17281-01	48,914
KINZIE, JEANNIE J.	MODIFICATION OF HEPATIC RADIATION INJURY BY HEPARIN	RAD	7R01 CA18388-01	36,905
KIRSNER, JOSEPH B.	CLINICAL STUDIES OF ULCERATIVE COLITIS	GMA	3R01 AM02133-17S1	34,667
KIRSTEN, WERNER H.	TRANSFORMATION OF HUMAN CELLS BY A MURINE SARCOMA VIRUS	SSS	5R01 CA14898-03	95,844
KLEIN, PETER D.	BILE ACID TRANSFORMATIONS IN GALLSTONE THERAPY	GMA	1R01 AM17862-01	66,255
KOHLER, HEINZ	ANTIGEN AND ANTIBODY IN THE IMMUNE RESPONSE	ALY	5R01 A111080-03	36,365
LARRAMENDI, LUIS M.	ELECTRONMICROSCOPIC STUDIES OF SYNAPTOGENESIS	NEUB	2R01 NS10454-04	65,616
LAW, JOHN H.	STUDY OF LIPID METABOLISM	PC	5R01 GM13863-10	140,037
LEVI SETTI, RICCARDO	EXPERIMENTAL 100 KEV PROTON SCANNING MICROSCOPE	SSS	5R01 GM20869-02	120,080
LEVIN, BERNARD	SURFACE ULTRASTRUCTURE OF MALIGNANT COLON EPITHELIUM	SRC	1R26 CA16918-01	50,294

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
LEWERT, ROBERT M.....	ANTIGEN-ANTIBODY REACTIONS IN PARASITE INFECTIONS.....	TMP	5R01 AI00884-21	83,912
LEWERT, ROBERT M.....	HYPERSENSITIVITY AND RESISTANCE IN SCHISTOSOMIASIS.....	TMP	5R22 AI07724-09	71,317
LIAO, SHUTSUNG.....	MACROMOLECULAR SYNTHESIS IN ACCESSORY GENITAL ORGANS.....	PC	5R01 AM09461-10	95,663
LINDHEIMER, MARSHALL D.....	RENAL FUNCTIONAL CORRELATES OF ABNORMAL PREGNANCY.....	GMB	2R01 HD05572-04	39,746
LINDHEIMER, MARSHALL D.....	INTERNATIONAL SYMPOSIUM ON HYPERTENSION IN PREGNANCY.....	NSS	1R13 HL18196-01	26,658
MAKINEN, MARVIN W.....	ENZYME COMPLEXES IN CRYSTALS—A NEW APPROACH.....	BBCB	1R01 GM21900-01A2	25,612
MANASEK, FRANCIS J.....	FACTORS REGULATING EMBRYONIC CARDIAC MORPHOGENESIS.....	MBY	2R01 HL13831-04	93,276
MARKOVITZ, ALVIN.....	CAPSULE SYNTHESIS, DIVISION, AND RADIATION SENSITIVITY.....	MBC	5R01 AI06966-10	75,957
MARTIN, WILLIAM R.....	BIOCHEMICAL ANALYSIS OF ADULT S. JAPONICUM EXO ANTIGENS.....	TMP	1R22 AI12497-01	36,894
MEWISSEN, DIEUDONNE J.....	COMPARATIVE CARCINOGENICITY OF TRITIUM.....	RAD	3R01 CA13080-03S1	18,788
MEWISSEN, DIEUDONNE J.....	POTENTIAL CARCINOGENIC AND GENETIC EFFECTS OF TRITIUM.....	RAD	2R01 CA13080-04	152,537
MOLTZ, HOWARD.....	ENDOCRINE REGULATION OF MATERNAL BEHAVIOR.....	EXP	5R01 HD06872-03	39,348
MOSSCONA, ARON A.....	CELLULAR AND MOLECULAR CONTROLS IN NEURODIFFERENTIATION.....	CBY	5R01 HD01253-17	113,646
MOULDER, JAMES W.....	STUDIES ON THE PSITTACOSIS GROUP OF ORGANISMS.....	VR	5R01 AI01594-19	70,000
MOULDER, JAMES W.....	PHAGOCYTOSIS OF CHLAMYDIAE.....	BM	1R01 AI13175-01	52,745
MULLAN, JOHN F.....	STUDY OF HEAD INJURIES.....	NSPA	2P01 NS07376-08A1	284,697
MURPHY, ELIZABETH H.....	VISUAL DISCRIMINATION.....	VISB	1R01 NS12433-01	20,262
NAUNTON, RALPH F.....	STUDY OF SENSORY DISEASES.....	CDR	2P01 NS03358-14	439,397
NEWELL, FRANK W.....	STUDY OF SENSORY DISEASES.....	SRC	5P01 EY00523-14	177,279
OPARIL, SUZANNE.....	MECHANISM OF RENIN RELEASE AND ANGIOTENSIN METABOLISM.....	CVB	5R01 HL14982-03	37,718
OXNARD, CHARLES E.....	STUDY OF STRUCTURE AND BIOMECHANICS OF BONE.....	AFY	5R01 AM16805-02	54,936
PAGE, ERNEST.....	STUDY OF CARDIAC ULTRASTRUCTURE AND ION TRANSPORT.....	PHY	2R01 HL10503-10	95,266
POKORNY, JOEL M.....	PSYCHOPHYSICAL STUDIES OF COLOR-DEFECTIVE OBSERVERS.....	VISB	5R01 EY00901-02	14,660
POTTS, ALBERT M.....	THE ACTION OF DRUGS AND POISONS ON THE EYE.....	TOX	5R01 EY00065-10	103,299
PROCTOR, LEONARD R.....	STUDY OF VESTIBULAR PATHWAYS IN THE CEREBELLUM.....	CMS	5R01 NS09613-04	29,517
RABINOWITZ, MURRAY.....	MITOCHONDRIAL ASSEMBLY AND REPLICATION.....	PC	5R01 HL04442-17	98,593
RABINOWITZ, MURRAY.....	SYNTHESIS OF PROTEIN AND RNA IN HEART MUSCLE.....	PC	2R01 HL09172-11	115,179
RAMACHANDRAN, G N.....	THEORETICAL STUDIES ON PROTEIN STRUCTURE.....	BBCB	5R01 AM11493-09	42,758
RAVIN, ARNOLD W.....	DISCRIMINATION IN GENETIC TRANSFORMATIONS OF BACTERIA.....	MBC	2R01 AI09117-07	58,963
RESNEKOV, LEON.....	STUDY OF ISCHEMIC HEART DISEASE.....	SRC	1P17 HL17648-01	1,169,347
RICE, STUART A.....	PHOTOCHEMICAL STUDY OF VISUAL PIGMENT MODELS.....	BBCA	5R01 EY01056-03	37,994
RINGO, GEORGE R.....	AN ION MICROPROBE ANALYZER FOR BIOLOGY.....	MCHB	5R01 GM21184-02	62,900
ROBERTSON, ANTHONY D.....	CONTROL OF DEVELOPMENT OF CELLULAR SLIME MOLDS.....	MBY	5R01 HD04722-03	62,626
ROIZMAN, BERNARD.....	MECHANISMS OF VIRAL INFECTION IN RELATION TO CANCER.....	VR	5R01 CA08494-10	80,575
ROSENBERG, IRWIN H.....	ABSORPTION OF MONOGLUTAMYL AND POLYGLUTAMYL FOLATES.....	GMA	2R01 AM15351-04	115,415
ROSENFELD, ROBERT L.....	RELATION OF PLASMA SEX-HORMONE LEVELS TO ANDROGEN ACTION.....	END	2R01 HD06308-04	55,690
ROSSMANN, KURT.....	STUDY OF RADIOLOGIC IMAGES.....	GMP	5P01 GM18940-03	492,337
ROTHBERG, RICHARD M.....	IMMUNE RESPONSES OF NEWBORNS TO INGESTED ANTIGENS.....	IMB	5R01 AI07854-08	33,611
ROTHBLATT, BEN.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07029-10	41,505
ROTHMAN-DENES, LUCIA B.....	NOVEL TRANSCRIBING ACTIVITIES IN N-4-INFECTED E. COLI.....	SSS	1R01 AI12575-01	62,747
ROWLEY, DONALD A.....	SPECIFIC SUPPRESSION OF CELL-MEDIATED IMMUNE RESPONSE.....	IMB	5R01 AI09268-07	86,206
ROWLEY, DONALD A.....	PATHOLOGIC STUDIES ON INFLAMMATION AND IMMUNITY.....	IMB	5R01 AI10242-15	46,987
ROWLEY, DONALD A.....	ANTIBODY DEPENDENT CELL MEDIATED CYTOTOXICITY.....	ALY	5R01 AI12235-02	54,620
RUBENSTEIN, ARTHUR H.....	PROINSULIN AND C-PEPTIDE: SECRETION AND METABOLISM.....	END	2R01 AM13941-06	63,928
SCANU, ANGELO M.....	NATURE AND FUNCTION OF PLASMA LIPOPROTEINS.....	PC	5R01 HL08727-11	59,094
SIGLER, PAUL B.....	STRUCTURAL ANALYSIS OF BIOLOGICAL MACROMOLECULES.....	BBCB	3R01 GM15225-07S1	2,621
SIGLER, PAUL B.....	MOLECULAR INTERACTIONS AT THE CELL SURFACE.....	BBCB	1R01 GM22324-01	52,457
SKAGGS, LESTER S.....	ANALOG COMPUTER FOR RESEARCH IN BIOLOGY AND MEDICINE.....	COM	5R01 CA06475-14	53,139
SLAUGHTER, DIANA T.....	STUDY OF PARENT-EDUCATION PROGRAMS.....	DBR	5R01 HD08533-02	89,723
SPARGO, BENJAMIN H.....	MEMBRANES AND PHOSPHOLIPIDS IN RENAL HYPERPLASIA.....	PTHA	1R01 GM22328-01	80,344
SPARGO, BENJAMIN H.....	ZONAL RENAL CHANGE WITH POTASSIUM DEPLETION.....	PTHA	3R01 HL02986-18S1	5,203
SPARGO, BENJAMIN H.....	ZONAL RENAL CHANGE WITH POTASSIUM DEFICIENCY.....	PTHA	2R01 HL02986-19	38,280
SPARGO, BENJAMIN H.....	ULTRASTRUCTURAL RENAL PATHOLOGY.....	PTHA	3R01 HL10980-08S1	11,415
SPARGO, BENJAMIN H.....	ULTRASTRUCTURAL RENAL PATHOLOGY.....	PTHA	2R01 HL10980-09	40,119
SPOFFORD, JANICE B.....	MECHANISM OF POSITION-EFFECT VARIATION.....	GEN	1R01 GM22040-01	54,887
STECK, THEODORE L.....	MEMBRANE DIFFERENTIATION IN AGGREGATING D. DISCOIDEUM.....	CBY	1R01 GM22321-01	75,758
STEINER, DONALD F.....	STUDIES ON PANCREATIC HORMONES.....	MET	2R01 AM13914-06	171,571
STEINER, DONALD F.....	DIABETES ENDOCRINOLOGY CENTER.....	SSS	5P17 AM17046-02	322,798
STRAUSS, BERNARD S.....	BIOLOGY OF HUMAN LYMPHOBLASTOID CELL LINES.....	VR	5R01 AI12116-02	60,993
STRAUSS, BERNARD S.....	A STUDY OF THE MODE OF ACTION OF CHEMICAL MUTAGENS.....	GEN	5R01 GM07816-16	93,383

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
STUART, FRANK P.	IMMUNOLOGICAL ENHANCEMENT OF RENAL ALLOGRAFTS	IMB	5R01 AI08074-08	68,380
TAGER, HOWARD S.	BIOSYNTHESIS AND SECRETION OF PEPTIDE HORMONES	MET	7R01 AM18347-01	38,880
TAYLOR, EDWIN W.	CHEMISTRY AND MECHANISM OF MOTILE SYSTEMS	BBCB	5R01 GM10992-14	43,728
TOBACK, FREDERICK G.	BIOCHEMICAL REGULATION OF CONTROLLED RENAL GROWTH	GMB	1R01 AM18413-01	46,641
ULINSKI, PHILIP S.	LAMINAR STRUCTURES	NEUB	1R01 NS12518-01	37,865
ULTMANN, JOHN E.	CANCER RESEARCH PROGRAM	CAP	5P01 CA14599-02	2,151,628
WAINER, HOWARD	COMPUTER IMPLEMENTATION OF RWT STATURE PREDICTION	AFY	1R01 HD08896-01	7,740
WARNOCK, MARTHA L.	ASBESTOS AND CANCER	PTHB	1R01 ES01122-01	22,717
WEISS, SAMUEL B.	VIRUS DEVELOPMENT AND TRANSLATIONAL CONTROL	VR	2R01 AI12479-04A1	46,641
WESTLEY, JOHN L.	SULFANES IN METABOLISM: CRYSTALLINE HUMAN RHODANESE	BIO	5R01 GM18939-04	34,354
WIED, GEORGE L.	AUTOMATED CANCER CELL DIAGNOSIS BY THE TICAS METHOD	SSS	5R01 CA13271-07	181,647
WIED, GEORGE L.	CONFERENCE ON AUTOMATION OF CERVICAL CANCER CYTOLOGY	PTHB	1R13 CA17098-01	19,979
WILLIAMS-ASHMAN, HOWARD G.	BIOCHEMISTRY OF THE MALE GENITAL TRACT	REB	2R01 HD04592-07	103,554
WISSLER, ROBERT W.	STUDY OF LIPOPROTEINS, ARTERY WALL, AND ATHEROSCLEROSIS	SRC	5P17 HL15062-04	927,859
WONG, TING-WA.	EFFECT OF THYROXINE ON tRNA METABOLISM OF THE BRAIN	PC	5R01 HD06477-04	27,833
WOOL, IRA G.	ENDOCRINE REGULATION OF PROTEIN SYNTHESIS	PC	5R01 AM04842-14	85,657
WOOL, IRA G.	THE STRUCTURE AND FUNCTION OF EUKARYOTIC RIBOSOMES	PC	1R01 GM21769-01	89,200
YANG, NIEN-CHU C.	MOLECULAR MECHANISMS OF MUTAGENESIS AND CARCINOGENESIS	MCHA	2R01 CA10220-07	55,383
YANG, NIEN-CHU C.	PHOTOCHEMICAL SYNTHESIS OF ORGANIC COMPOUNDS	MCHA	5R01 GM20329-08	79,396
ZEITLER, ELMAR	FIELD EMISSION - PHASE CONTRAST ELECTRON MICROSCOPY	SSS	5R01 GM18391-04	73,441
ZEITLER, ELMAR	1-MEV SCANNING TRANSMISSION ELECTRON MICROSCOPE	MBY	2R01 GM19079-04	227,175
ORGANIZATION TOTAL	163	18,784,587		
<b>UNIVERSITY OF HEALTH SCIENCES ZIP CODE 60612</b>				
ALBACH, RICHARD A.	STUDIES ON THE NATURE OF ENTAMOEBA HISTOLYTICA	TMP	5R01 AI08004-08	35,018
BIGLEY, NANCY J.	VRULENCE-HOST RESISTANCE IN MURINE SALMONELLOSIS	BM	5R01 AI09571-06	50,329
EZDINLI, EDIZ Z.	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R01 CA14144-03	78,060
EZDINLI, EDIZ Z.	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	1P01 CA16208-01	86,276
MARTIN, CHARLES J.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05366-14	53,853
THACMERT, JONA C.	ULTRASTRUCTURE OF THE CONDUCTION SYSTEM OF THE HEART	CVA	7R01 HL18011-01	40,054
ORGANIZATION TOTAL	6	343,590		
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE ZIP CODE 60680</b>				
BOUCK, GEORGE B.	STRUCTURAL AND FUNCTIONAL ORGANELLE INTERACTIONS	CBY	2R01 GM19537-04	45,223
EWER, PHYLLIS A.	THE ROLE OF TASTES IN THE ECONOMIC MODEL OF FERTILITY	POP	1R01 HD09225-01	9,137
GORENSTEIN, DAVID G.	NMR PROBES OF ENZYMES COMPLEXES	BBCB	2R01 GM17575-04	34,995
KASSNER, RICHARD J.	STRUCTURAL BASIS FOR REDOX POTENTIALS IN HEMEPROTEINS	BBCA	5R01 HL16575-02	26,372
KOSOBUD, RICHARD F.	SYSTEMS STUDY OF POPULATION AND ECONOMIC CHANGE	POP	5R01 HD06966-03	60,320
MILLS, DALLICE	RIBOSOME ACTIVITY AND TRANSCRIPTION DURING MEIOSIS	GEN	1R01 GM22117-01	52,383
OSCAI, LAWRENCE B.	EFFECT OF EXERCISE ON ADIPOSE TISSUE CELLULARITY	AFY	5R01 AM17357-02	38,416
SCHULTZ, ALBERT B.	BIOMECHANICAL STUDIES OF IDIOPATHIC SCOLIOSIS	AFY	2R01 AM15575-04	81,312
ORGANIZATION TOTAL	8	348,158		
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER ZIP CODE 60680</b>				
ANDERSON, EDMUND G.	BULBOSPINAL SYNAPTIC ACTIVITY AND BIOGENIC AMINES	PHRA	5R01 NS05611-11	54,391
ARSENIS, CHARALAMPOS	CELLULAR MECHANISMS OF CALCIFICATION	GMB	5R01 AM14974-05	47,512
AUSTIN, DAVID F.	WORKSHOP CONFERENCE ON CHRONIC EAR DISEASE	NSS	1R13 NS12258-01	4,064
BARANY, MICHAEL	PROTEIN PHOSPHORYLATION IN MUSCLE	BBCB	1R01 NS12172-01	38,426
BOMBECK, CHARLES T.	PHYSIOLOGY & TREATMENT OF GASTROESOPHAGEAL INCOMPETENCE	SCYB	5R01 AM11835-07	23,012
COHEN, CARL	THE IMMUNOBIOLOGY OF THE LABORATORY RABBIT	IMB	5R01 GM18350-05	41,276
COHEN, CARL	THE IMMUNOBIOLOGY OF THE LABORATORY RABBIT	IMB	5P06 RR00627-05	93,199
COTLIER, EDWARD	BIOCHEMICAL STUDIES IN NORMAL AND CATARACTOUS LENSES	VISA	5R01 EY00703-05	62,368
DAS GUPTA, TAPAS K.	COOPERATIVE STUDY OF ONCOLOGY	CCI	5R10 CA12277-05	68,257
DAS GUPTA, TAPAS K.	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17954-01	173,856
DOUGHTY, CLYDE C.	ALDOSE REDUCTASE SUBUNITS	BIO	5R01 EY00449-05	28,774
DRAY, SHELTON	SERUM PROTEIN ALLOTYPES	ALY	5R01 AI07043-10	105,071
EISENMANN, DALE R.	CELLULAR CONTROL OF MINERALIZATION	DEN	2R01 DE03312-04	24,964
FRIED, WALTER	FACTORS REGULATING HEMATOPOIESIS	HEM	5R01 AM12936-07	33,700
FRIEDENSON, BERNARD A.	IGG ANTIBODIES WITH THE SAME HEAVY OR LIGHT CHAIN	ALY	1R01 AI12363-01	45,504
GREEN, RICHARD D.	DEVELOPMENTAL ASPECTS OF AUTONOMIC RECEPTOR FUNCTION	PHRA	3R01 HL15995-02S1	285



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
GREEN, RICHARD D.....	DEVELOPMENTAL ASPECTS OF AUTONOMIC RECEPTOR FUNCTION.....	PHRA	5R01 HL15995-03	37,631
HAHN, JEROME J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05369-14	181,325
HARTMAN, ARTHUR D.....	ADIPOCYTE METABOLISM AS RELATED TO SIZE.....	MET	5R01 AM17660-02	24,273
HENDERSON, THOMAS O.....	LIPIDS AND ALKYLPHOSPHONATES.....	PC	9R01 GM20127-04	45,064
HERRING, SUSAN W.....	PHYSIOLOGY OF FEEDING IN MINIATURE PIGS.....	DEN	5R23 DE03806-02	10,290
HOLINGER, PAUL H.....	SYMPOSIUM ON LARYNGEAL PAPILLOMATOSIS.....	NSS	1R13 NS12263-01	3,920
HONIG, GEORGE R.....	REGULATION OF HEMOGLOBIN SYNTHESIS.....	HEM	5R01 AM12895-07	8,992
JACKSON, GEORGE G.....	CAUSES & IMMUNE RESPONSES OF VIRAL RESPIRATORY DISEASES.....	SSS	5R01 AI04059-14	63,729
KATZ, NORMAN L.....	PHYSIOLOGY AND PHARMACOLOGY OF MOTOR NERVE-TERMINALS.....	PHRA	1R01 NS11901-01	25,465
KETENJIAN, ARA Y.....	MECHANISMS OF CALCIFICATION IN FRACTURE HEALING.....	AFY	1R01 AM17753-01	78,144
KNIGHT, KATHERINE L.....	STRUCTURE AND GENETIC CONTROL OF RABBIT IGA.....	ALY	5R01 AI11234-03	54,103
KRAKOWER, CECIL A.....	ANTIGENS RELATED TO GRAFT REJECTION.....	PTHA	5R01 HL01623-24	29,693
KUSEK, JUDITH C.....	INTRACELLULAR CALCIUM METABOLISM IN SALIVARY GLANDS.....	GMB	5R01 DE04081-02	17,518
LASKIN, DANIEL M.....	PSYCHOPHYSIOLOGY OF TMJ & OTHER FACIAL PAIN SYNDROMES.....	DEN	2R01 DE02899-07	94,900
LAZARUS, MARLENE L.....	DEVELOPMENT OF NORMAL AND MYOPATHIC MAMMALIAN HEART.....	CVB	1R01 HL18032-01	61,909
LEVITSKY, SIDNEY.....	INTRAOPERATIVE PROTECTION OF THE MYOCARDIUM.....	SGYA	1R01 HL18288-01	128,403
LOIZZI, ROBERT F.....	CYCLIC NUCLEOTIDES AND THE REGULATION OF LACTATION.....	END	1R01 HD09035-01	31,808
LOURENCO, RUY V.....	DEFENSE MECHANISMS IN PATHOGENESIS OF EMPHYSEMA.....	PTHB	3R01 HL13824-03S1	37,573
MORRIS, PAUL W.....	EUKARYOTE RNA POLYMERASE-DNA SITE SELECTION PROCESSES.....	BIO	1R01 GM22147-01	53,953
MOSS, GERALD S.....	EFFECT OF STEROID THERAPY IN SEPTIC SHOCK.....	SGYA	5R01 HL12808-06	32,450
MUHL, ZANE F.....	FUNCTIONAL PROPERTIES OF MAMMALIAN MASTICATORY MUSCLE.....	DEN	1R23 DE04164-01	14,637
OMACHI, AKIRA.....	ION TRANSPORT ACROSS MAMMALIAN CELL MEMBRANE.....	PHY	2R01 HL13567-04A1	34,782
PEYMAN, GHOLAM A.....	SURGICAL TECHNIQUES FOR INTRAVITREAL OPERATIONS.....	VISA	5R01 EY01107-03	29,636
PROUDFIT, HERBERT K.....	BULBOSPINAL MECHANISMS INVOLVED IN MORPHINE ANALGESIA.....	SSS	1R01 NS12649-01	63,841
PRUZANSKY, SAMUEL.....	STUDY OF CRANIOFACIAL ANOMALIES.....	SSS	5P01 DE02872-06	306,951
RABB, MAURICE F.....	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE.....	SRC	5P18 HL15168-04	456,662
RADULOVACKI, MIODRAG.....	SLEEP, HYPNOTICS AND BRAIN MONOAMINE METABOLISM.....	NEUA	5R01 NS10921-02	34,574
RAFFERTY, KEEN A, JR.....	CELL ANALYSIS OF SOME VIRUS-ASSOCIATED TUMORS OF MAN.....	VR	5R01 CA13494-03	30,244
REITER, HARVARD.....	MEMBRANE-ACTIVE INHIBITORS OF DNA REPLICATION.....	BIO	5R01 CA17123-04	29,679
REITER, HARVARD.....	MOLECULAR MECHANISM OF ALLELIC EXCLUSION.....	GEN	1R01 CA18645-01A1	52,292
REYNOLDS, WYNETKA A.....	TOXICITY OF ORGANIC MERCURY FOR THE FETUS AND NEWBORN.....	HED	5R01 ES00820-03	52,012
RODGERS, CHARLES H.....	NEURAL REGULATION OF SEX BEHAVIOR IN THE FEMALE.....	REB	5R01 HD06926-02	12,441
ROSEN, KENNETH M.....	PROSPECTIVE STUDIES OF CONDUCTION DISEASE.....	SRC	1R01 HL18794-01	94,925
ROTKIN, I D.....	EPIDEMIOLOGIC AND GENETIC STUDIES IN PROSTATIC CANCER.....	SRC	1R26 CA16925-01	84,747
SANDERS, DONALD R.....	A BIOCHEMICAL CLASSIFICATION FOR CATARACTOUS LENSES.....	VISA	1R23 EY01446-01	11,025
SCHLUSELFELD, LOUIS H.....	HEART, PLATELET, MUSCLE MYOSINS AND ACTOMYOSINS.....	BIO	1R01 HL18179-01	38,417
STEINBERG, ARNOLD D.....	CREVICULAR EPITHELIUM TRANSPORT AND PERIODONTAL DISEASE.....	DEN	5R01 DE03836-02	26,090
TABAKOFF, BORIS.....	BIOGENIC ALDEHYDES - A ROLE IN CNS FUNCTION.....	PPR	7R01 NS12759-01	43,159
TAO, MARIANO.....	PHOSPHORYLATION OF ADENOVIRAL-ASSOCIATED PROTEINS.....	BIO	5R01 CA17036-02	35,949
VAINISI, SAMUEL J.....	STUDIES ON OPHTHALMIC DISEASES.....	VISA	2R01 EY00874-04	92,206
VARY, JAMES C.....	MECHANISM OF BACTERIAL SPORE GERMINATION.....	MBC	1R01 AI12678-01	40,734
WALTER, RODERICH W.....	BIOFUNCTIONAL CONFORMATION OF PEPTIDE HORMONES.....	END	1R01 AM18399-01	185,388
WALTER, RODERICH W.....	PEPTIDES: CHEMISTRY, STRUCTURE AND BIOLOGY.....	BBCB	1R13 AM18625-01	7,500
WEISS, MARVIN B.....	IMMEDIATE METAL IMPLANTS INTO EXTRACTION SOCKETS.....	DEN	3R01 DE03227-03S1	10,760
WEISSMANN, BERNARD.....	ISOLATION AND STRUCTURE OF ACID MUCOPOLYSACCHARIDES.....	PC	5R01 AM02479-17	33,396
YALE, SEYMOUR H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05309-14	27,965
ZAKI, ABD EL-MONEIM E.....	CELLULAR ROLE IN AMPHIBIAN ODONTOGENESIS.....	DEN	5R23 DE03724-03	8,687
ORGANIZATION TOTAL	63 3,724,501			

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### NORTHERN ILLINOIS UNIVERSITY ZIP CODE 60115

BILES, WORTHIE E.....	ISOHEMAGGLUTININS FOR AVIAN RNA TUMOR RECEPTORS.....	VR	2R01 CA12796-04	37,532
DAVIS, JOEL L.....	DEVELOPMENTAL ASPECTS OF PASSIVE AVOIDANCE LEARNING.....	EXP	5R01 HD07054-02	13,212
ERMAN, JAMES E.....	OXIDATIONS CATALYZED BY CYTOCHROME-C PEROXIDASE.....	BIO	2R01 GM18648-04	41,228
HAMPEL, ARNOLD E.....	LOW MOLECULAR WEIGHT RNAS OF CHO TISSUE CULTURE CELLS.....	PC	5R01 GM19506-03	27,899
HAMPEL, ARNOLD E.....	TRANSFER RNA CHANGES INDUCED BY THYROID.....	PC	5R01 HD06816-02	25,381
KEVILL, DENNIS N.....	ADAMANTYL TRIAZOLES: POTENTIAL ANTINEOPLASTIC AGENTS.....	MCHA	1R01 CA17043-01	11,366
MITCHELL, JOHN L.....	REGULATION OF ORNITHINE DECARBOXYLASE ACTIVITY.....	BIO	1R01 AM17949-01	23,025



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
ORGANIZATION TOTAL	7	179,643		
<b>DOWNEY</b>				
VETERANS ADMINISTRATION HOSPITAL	ZIP CODE 60064			
LITTERIA, MARILYN.....	EFFECT OF STEROIDS ON UPTAKE OF 3H-THYMIDINE IN BRAIN.....	HED	5R01 NS11501-02	3,000
ORGANIZATION TOTAL	1	3,000		
<b>EDWARDSVILLE</b>				
SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE	ZIP CODE 62025			
BAICH, ANNETTE.....	PROLINE, GLYCINE, AND COLLAGEN FORMATION IN ANIMALS.....	PBC	5R01 AM17783-02	38,546
MATTA, MICHAEL S.....	POLAR EFFECTS IN MODEL SUBSTRATES OF CHYMOTRYPSIN.....	BIO	2R01 GM18652-04	12,803
ORGANIZATION TOTAL	2	51,349		
<b>EVANSTON</b>				
AMERICAN ACADEMY OF PEDIATRICS	ZIP CODE 60201			
D'ANGIO, GIULIO J.....	NATIONAL WILMS' TUMOR STUDY.....	CCI	5R10 CA11722-07	114,434
ORGANIZATION TOTAL	1	114,434		
EVANSTON HOSPITAL	ZIP CODE 60201			
GOLDSTICK, THOMAS K.....	ARTERIAL WALL OXYGEN TRANSPORT IN ATHEROSCLEROSIS.....	CVA	1R01 HL17517-01	33,931
MC LAREN, JOHN A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05629-08	29,931
SPRINGER, GEORG F.....	STRUCTURE AND TUMOR-VIRUS RELATION OF BLOOD GROUP MN.....	HEM	5R01 AI05681-13	93,304
SPRINGER, GEORG F.....	NATURE AND FUNCTION OF SHOCK RECEPTORS OF WHITE CELLS.....	HEM	5R01 AI11569-03	80,929
SPRINGER, GEORG F.....	ISOLATION AND PROPERTIES OF A SARCOMA VIRUS RECEPTOR.....	HEM	5R01 CA14183-03	44,063
VICK, NICHOLAS A.....	FINE STRUCTURE OF VIRAL INDUCED BRAIN TUMORS.....	PTHA	1R01 NS12745-01	55,350
ORGANIZATION TOTAL	6	337,508		
NORTHWESTERN UNIVERSITY	ZIP CODE 60201			
BASOLO, FRED.....	SYNTHETIC OXYGEN CARRIERS.....	MCHA	5R01 HL13412-13	49,178
BENDER, MYRON L.....	MECHANISMS OF ENZYME ACTION.....	PC	5R01 GM20853-15	54,207
CARHART, RAYMOND T.....	PERCEPTUAL MASKING IN NORMAL AND IMPAIRED HEARERS.....	CMS	5R01 NS09442-05	52,227
CARHART, RAYMOND T.....	FACTORS IN BINAURAL EFFICIENCY: UNAIDED AND AIDED.....	CMS	1R01 NS11857-01	82,273
DALLOS, PETER J.....	STIMULUS-RELATED DC POTENTIALS OF THE COCHLEA.....	CMS	5R01 NS06730-09	67,571
DALLOS, PETER J.....	COCHLEAR DISTORTION AND THE ROLE OF CM IN HEARING.....	CMS	5R01 NS08635-06	62,316
DUMAS, LAWRENCE B.....	ROLE OF HOST CELL PROTEINS IN SYNTHESIS OF VIRUS DNA.....	VR	2R01 AI09882-04	48,218
EPSTEIN, MAX.....	MATERIALS AND COMPONENTS FOR MINIATURE FIBERSCOPES.....	SGYA	3R01 GM21367-01S1	1,500
GILBERT, LAWRENCE I.....	BIOCHEMICAL ANALYSIS OF THE ACTION OF HORMONES.....	END	5R01 AM02818-17	77,946
GOLD, CHARLES H.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07028-10	64,791
GOLDBERG, ERWIN.....	REPRODUCTIVE BIOCHEMISTRY OF TESTES SPECIFIC LDH-X.....	REB	2R01 HD05863-04	87,451
HALL, JAMES W.....	MEMORY-ENCODING OPERATIONS IN ADULTS AND CHILDREN.....	EXP	5R01 HD07311-02	22,765
IBERS, JAMES A.....	MOLECULAR OXYGEN CARRIERS-SYNTHESIS, STRUCTURE, BONDING.....	BBCA	3R01 HL13157-05S1	1,253
IBERS, JAMES A.....	SYNTHESIS AND STRUCTURE OF MOLECULAR OXYGEN CARRIERS.....	BBCA	5R01 HL13157-06	76,665
JACOBS, JOHN E.....	IMAGING SYSTEMS FOR BIOLOGICAL ORGANISMS.....	SSS	5R01 GM08522-13	51,832
KERTESZ, ANDREW E.....	FUNCTIONAL ASPECTS OF PANUM'S FUSIONAL AREAS.....	VISB	5R01 EY01055-03	7,734
KERTESZ, ANDREW E.....	FUNCTIONAL ASPECTS OF PANUM'S FUSIONAL AREAS.....	VISB	2R01 EY01055-04	84,939
KING, ROBERT C.....	STUDIES ON THE GENETIC CONTROL OF CYTOKINESIS.....	GEN	1R01 GM20036-01	48,746
KLOTZ, IRVING M.....	STABILITY OF HYDROGEN BONDS IN PROTEINS.....	BBCA	5R01 GM09280-14	87,332
KLOTZ, IRVING M.....	MOLECULAR BIOLOGY OF HEMERYTHRIN AND HEMOCYANIN.....	BIO	5R01 HL08299-12	76,341
LETSINGER, ROBERT L.....	NEW METHODS FOR THE SYNTHESIS OF POLYNUCLEOTIDES.....	MCHB	5R01 GM10265-13	75,688
LEWIS, JACK L.....	IN VIVO FRACTURE STIFFNESS MEASUREMENT.....	AFY	1R01 AM17974-01	45,108
LIPPINCOTT, JAMES A.....	SITE ATTACHMENT IN BACTERIAL INFECTION.....	BM	1R01 AI12149-01	64,251
LOACH, PAUL A.....	STRUCTURE AND FUNCTION OF PHOTOSYNTHETIC MEMBRANES.....	BBCA	3R01 GM11741-09S1	16,637
LORAND, LASZLO.....	COAGULATION OF BLOOD.....	SSS	2R01 HL02212-20	76,760
LORAND, LASZLO.....	ENZYME ASSAYS IN BLOOD CLOTTINGS.....	HEM	5R01 HL16346-06	67,409
MACDONALD, ROBERT C.....	MEMBRANES AND THE ACTION OF VIRUSES.....	VR	5R01 AI11428-02	27,401
MARGOLIASH, EMANUEL.....	MITOCHONDRIAL MEMBRANE METABOLIC ROLE OF CYTOCHROME C.....	BIO	5R01 GM19121-04	125,944

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
MARGOLIASH, EMANUEL.....	DESIGN OF COMPUTER FOR DETERMINING AMINO ACID SEQUENCES..	COM	5R01 GM20048-03	336,778
MARGOLIASH, EMANUEL.....	AMINO ACID ANALYZER FOR BIOCHEMICAL RESEARCH.....	BIO	5R01 HL11119-14	35,979
MARSHALL, JAMES A.....	SYNTHESIS OF LACTONES WITH TUMOR-INHIBITORY PROPERTIES.....	MCHA	2R01 CA11089-13	86,078
MC KAY, HARRISON E.....	STIMULATION, NUTRITION, AND DEVELOPMENT OF COMPETENCE.....	SSS	5R01 HD07716-02	68,893
MOCKROS, LYLE F.....	ARTIFICIAL LUNGS.....	SGYB	5R01 HL16582-02	43,107
NEUHAUS, FRANCIS C.....	BIOSYNTHESIS OF BACTERIAL CELL-WALL COMPONENTS.....	MBC	5R01 AI04615-14	96,952
OSCHMAN, JAMES L.....	CALCIUM AND THE CELL SURFACE.....	PHY	2R01 AM14993-05	53,454
ROUTTENBERG, ARYEH.....	SUBFORNICAL ORGAN CONTROL OF DRINKING BEHAVIOR.....	EXP	2R01 NS10768-03A1	27,278
SEKULER, ROBERT W.....	MOVEMENT AND CONTOUR PROCESSES IN HUMAN VISION.....	VISB	3R01 EY00321-09S1	1,215
SEKULER, ROBERT W.....	MOVEMENT AND CONTOUR PROCESSES IN HUMAN VISION.....	VISB	5R01 EY00321-10	69,805
SHEMIN, DAVID.....	PORPHYRINS: ENZYMIC MECHANISMS AND CONTROL OF SYNTHESIS..	PC	5R01 AM13091-07	81,736
SHEMIN, DAVID.....	PORPHYRIA-METABOLIC BASIS OF A NEUROLOGICAL DISORDER.....	MET	5R01 AM16484-06	41,511
SIMPSON, SIDNEY B, JR.....	STUDIES IN REGENERATION.....	CBY	5R01 GM18269-05	20,719
SRIIDHARA, S.....	RNA POLYMERASES DURING CELLULAR DIFFERENTIATION.....	GEN	5R01 HD08450-02	28,514
SWEEN, JOYCE A.....	EFFECT OF URBANIZATION ON FAMILIAL PATTERN IN CAMEROUN.....	POP	5R01 HD06279-04	30,664
WIGHTMAN, FREDERIC L.....	PITCH PERCEPTION AS AUDITORY PATTERN RECOGNITION.....	CMS	3R01 NS12045-01S1	31,870
WU, TAI T.....	GENETIC MANIPULATION OF BACTERIA FOR ABNORMAL GROWTH.....	GEN	5R01 GM20334-03	22,358
WU, TAI T.....	ATTEMPTS TO PREDICT 3-D PROTEIN BACKBONE STRUCTURES.....	BBCA	1R01 GM21482-01	14,367
ORGANIZATION TOTAL	46 2,695,761			
<b>GALESBURG</b>				
<b>KNOX COLLEGE ZIP CODE 61401</b>				
GEER, BILLY W.....	GENETIC CONTROL OF TEMPERATURE ACCLIMATION IN INSECTS.....	GEN	5R01 GM20393-02	25,211
ORGANIZATION TOTAL	1 25,211			
<b>HINES</b>				
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 60141</b>				
HELD, IRENE R.....	NEUROTROPHIC REGULATION OF MUSCLE PROTEIN SYNTHESIS.....	NEUB	5R01 NS11755-02	24,857
ORGANIZATION TOTAL	1 24,857			
<b>MACOMB</b>				
<b>WESTERN ILLINOIS UNIVERSITY ZIP CODE 61455</b>				
MURNIK, MARY R.....	TESTING WIDELY USED HERBICIDES FOR MUTAGENIC ACTIVITY.....	TOX	1R01 ES00871-01	18,080
NOLLEN, PAUL M.....	STUDIES ON REPRODUCTION IN SCHISTOSOMES.....	TMP	5R22 AI09330-06	20,301
ORGANIZATION TOTAL	2 38,381			
<b>MAYWOOD</b>				
<b>LOYOLA UNIVERSITY MEDICAL CENTER ZIP CODE 60153</b>				
BALIS, JOHN U.....	ULTRASTRUCTURE AND QUANTITATION OF SURFACTANT.....	HED	5R01 HD04434-05	39,703
DURKIN, MARTIN G.....	BIOLOGIC PROPERTIES OF BASIC GASTRIN.....	GMA	5R01 AM16875-02	46,628
GUNNAR, ROLF M.....	MYOCARDIAL INFARCTION AND SHOCK.....	CVA	5R01 HL15040-03	111,268
KARCZMAR, ALEXANDER G.....	ACTION OF ORGANOPHOSPHORUS AGENTS IN VARIOUS SYNAPSES.....	PHRA	5R01 NS06455-10	137,203
NISHI, SYOGORO.....	STUDIES ON SINGLE NEURON ACTIVITY.....	PHY	5R01 NS06672-10	87,134
O'MORCHOE, CHARLES C.....	THE ORIGIN AND FORMATION OF RENAL LYMPH.....	CVB	7R01 AM18473-01	26,262
POLLOCK, ROBERT.....	EVOLUTION OF THE PERIODONTIUM.....	DEB	5R01 DE02309-09	32,090
RANDALL, WALTER C.....	REGULATION OF THE CARDIOVASCULAR SYSTEM.....	HEP	3P01 HL08682-11S1	40,294
RANDALL, WALTER C.....	REGULATION OF THE CARDIOVASCULAR SYSTEM.....	HEP	5P01 HL08682-12	489,227
SCHMIDT, ROBERT S.....	NEUROETHOLOGY.....	EXP	2R01 NS06673-10	34,230
SCHULTZ, RICHARD M.....	THERMODYNAMIC STUDIES OF CHYMOTRYPSIN CATALYSIS.....	BBCA	5R01 AM16733-03	25,708
SINHA, SACHCHIDA N.....	DEVELOPMENT OF CARDIAC AUTONOMIC CONTROL AND THE SIDS.....	CVB	1R01 HD08465-01A1	39,548
SPENCER, HERTA.....	INTERACTION OF FLUORIDE WITH MINERALS IN MAN.....	GMB	5R01 DE02486-07	85,127
STODOLSKY, MARVIN.....	BACTERIAL GENE ACQUISITION BY PROPHAGE P1.....	MBC	1R01 GM21435-01	27,804
WELLS, JOSEPH A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05368-14	118,027
ORGANIZATION TOTAL	15 1,340,253			

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
<b>PEORIA</b>				
<b>UNIVERSITY OF ILLINOIS SYSTEM—PEORIA SCHOOL OF MEDICINE      ZIP CODE 61606</b>				
GRUNDBACHER, FRED J.	GENETICS OF ISOANTIBODY AND IMMUNOGLOBULIN LEVELS	GEN	5R01 AI12460-02	14,705
ORGANIZATION TOTAL	1      14,705			
<b>URBANA</b>				
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN      ZIP CODE 61801</b>				
ALGER, NELDA E.	NOSEMA ALGERAE AS A BIOLOGICAL CONTROL OF MOSQUITOES	TMP	5R01 AI1123-03	37,167
ASHER, STEVEN R.	STUDY OF DEVELOPMENT OF ABILITY TO COMMUNICATE	DBR	5R01 HD07303-03	14,170
BARR, LLOYD	IONIC CURRENTS OF CARDIAC MUSCLE	PHY	5R01 HL14125-04	58,620
BEAK, PETER A.	NEW SYNTHETIC METHODS USEFUL FOR CHEMOTHERAPEUTICS	MCHB	5R01 GM18874-04	59,008
BELL, R. RAINES	DIETARY FACTORS IN THE ETIOLOGY OF OSTEOPOROSIS	NTN	5R01 AM17169-02	37,051
BROWN, ANN L.	CONTROL PROCESSES IN THE MEMORY OF RETARDED CHILDREN	EXP	5R01 HD06864-03	39,121
BUELOW, DENNIS E.	PROTEIN BIOSYNTHESIS IN MITOCHONDRIA	BIO	5R01 GM19641-02	35,875
CAMPIONE, JOSEPH C.	STUDY OF COGNITION IN THE RETARDED CHILD	HDMR	2P01 HD05951-04	332,459
CARL, PHILIP L.	DNA REPLICATION IN E. COLI AND BACTERIOPHAGE T4	GEN	1R01 GM21536-01	44,470
CARTER, CAROL S.	ENVIRONMENTAL AND HORMONAL CONTROL OF ESTRUS	REB	5R01 HD07496-02	23,344
CHOLDIN, HARVEY M.	DENSITY AND PATHOLOGY IN URBAN AREAS	POP	3R01 HD08031-01S1	2,438
CLARK, JOHN M., JR.	THE MECHANISM OF MESSENGER-RNA TRANSLATION	PC	5R01 GM08647-14	33,130
COATES, ROBERT M.	BIOGENESIS AND BIOSYNTHESIS OF TERPENES AND STEROLS	MCHA	2R01 GM13956-10	61,272
COHEN, LESLIE B.	HABITUATION AND MEMORY IN THE HUMAN INFANT	EXP	2R01 GM03858-06	49,630
CONRAD, H. EDWARD	STRUCTURE AND BIOLOGICAL ACTIVITY OF PROTEOGLYCANS	BIO	5R01 AI09551-06	38,854
CONRAD, H. EDWARD	VARIABILITY OF CARBOHYDRATE STRUCTURE AND ACTIVITY	MBY	5R01 HD08057-12	76,595
DE MOSS, RALPH D.	STUDY OF COMMENSAL METABOLIC INTERACTIONS	BM	5R01 AI1218-03	41,245
DEBRUNNER, PETER G.	RESONANCE SPECTROSCOPY OF ENZYMES	BBCB	2R01 GM16406-07	84,516
DELCOMYN, FRED	NEURAL MECHANISMS UNDERLYING BEHAVIOR	EXP	1R01 NS12142-01	25,496
DRAKE, JOHN W.	VIRUS GROWTH AND GENETICS	GEN	5R01 AI04886-13	51,914
DUCCOFF, HOWARD S.	KINETICS OF SPLIT-DOSE REPAIR AFTER RADIATION INJURY	RAD	5R01 CA13779-03	46,734
DUMN, FLOYD	ULTRASONIC ABSORPTION BY BIOLOGICAL MATERIALS	RAD	2R01 GM12281-11	52,434
DZUK, PHILIP J.	DEVELOPMENT AND PARTURITION OF PORCINE FETUSES	HED	5R01 HD07915-02	24,718
EBREY, THOMAS G.	STUDIES ON THE MECHANISM OF VISUAL EXCITATION	VISB	5R01 EY01323-02	48,987
EBREY, THOMAS G.	STUDIES ON THE MECHANISM OF VISUAL EXCITATION	VISB	2R01 EY01323-03	55,901
EVANS, CHARLES A., JR.	MASS SPECTROMETRY OF NONVOLATILE ORGANIC COMPOUNDS	MCHB	1R01 GM19749-01	39,508
FRAUENFELDER, HANS	HEME PROTEIN REACTIONS	BBCB	3R01 GM18051-04S1	2,942
GABRIDGE, MICHAEL G.	MECHANISM OF PATHOGENESIS IN MYCOPLASMA PNEUMONIAE	BM	1R01 AI12559-01	29,793
GENNIS, ROBERT B.	PROTEIN-LIPID INTERACTION	BBCB	5R01 HL16101-02	32,360
GETZ, LOWELL L.	DISPERSAL AS A POPULATION REGULATORY MECHANISM	EXP	1R01 HD09328-01	17,638
GLASER, MICHAEL	LIPID METABOLISM AND MEMBRANE STRUCTURE AND FUNCTION	SSS	1R01 GM21953-01	54,133
GREENOUGH, WILLIAM T.	ENVIRONMENTAL EFFECTS ON RAT BRAIN SYNAPSES	EXP	5R01 HD06862-03	25,691
GUMPORT, RICHARD I.	FUNCTION AND MECHANISM OF DNA LIGASE	PC	2R01 GM19442-04	47,127
GUNSALUS, IRWIN C.	METABOLIC MECHANISMS	PC	5R01 AM00562-22	141,726
GUNSALUS, IRWIN C.	PROTEIN STRUCTURE MODIFICATION AND OXIDATION	BIO	3R01 GM21161-01S1	4,553
HAGER, LOWELL P.	BIOCHEMICAL STUDIES ON T ANTIGEN AND TRANSFORMED CELLS	VR	1R01 CA17619-01	98,136
HAGER, LOWELL P.	ENZYMATIC ACTIVATION MECHANISMS	BIO	5R01 GM07768-15	99,128
HARTLINE, PETER H.	INTEGRATION OF VISUAL AND INFRARED NEURAL IMAGES	VISB	1R01 EY01539-01	37,289
HASKELL, BETTY E.	METABOLIC STUDIES ON NEUROLATHYRISM	TOX	5R01 NS08947-06	51,531
HELMAN, SANDY I.	ELECTROPHYSIOLOGY OF FROG SKIN AND KIDNEY TUBULES	PHY	5R01 AM16663-04	34,298
HENDRICKSON, DAVID N.	METAL SITES IN METALLOPROTEINS	BBCB	5R01 HL13652-05	39,797
JACCARD, JAMES J.	PREDICTION OF BEHAVIORS FROM BEHAVIORAL INTENTIONS	POP	5R01 HD07024-03	33,279
JACKSON, GARY L.	NEUROENDOCRINE CONTROL OF GONADOTROPIN SECRETION	REB	5R01 HD06787-02	31,396
JONAS, ANA	STRUCTURE AND FUNCTION OF SERUM LIPOPROTEINS	MET	5R01 HL16059-02	39,430
JONES, L. MEYER	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05460-13	27,660
KAPLAN, SAMUEL	INDUCTION AND BIOGENESIS OF SUBCELLULAR ORGANELLES	MBC	2R01 GM15590-09	67,465
KAPLAN, SAMUEL	TRNA AND THE DIFFERENTIAL CONTROL OF RNA SYNTHESIS	PC	5R01 HD03521-07	41,112
KATZENELLENBOGEN, BENITA S.	EFFECTS OF ESTROGEN ON HUMAN UTERUS TISSUE IN VITRO	REB	2R01 HD06726-04	63,816
KATZENELLENBOGEN, JOHN A.	UTERINE ESTROGEN RECEPTOR: AFFINITY LABELING	END	2R01 AM15556-04	40,662
KATZENELLENBOGEN, JOHN A.	NEW APPROACHES TO STEREOSPECIFIC ISOPRENOID SYNTHESIS	MCHA	5R01 GM17061-05	41,222



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ILLINOIS—Continued</b>				
KONISKY, JORDAN	MODE OF ACTION OF I-COLICINS ON ESCHERICHIA COLI	MBC	5R01 AI10106-05	46,405
KUMMEROW, FRED A	FUNCTION OF ELONGATED T-FATTY ACIDS IN TISSUE LIPIDS	NTN	2R01 HL14273-04	40,930
LARSEN, JOSEPH R	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07030-10	84,142
LEONARD, NELSON J	NUCLEOSIDES, NUCLEIC ACIDS, AND CELL DIVISION FACTORS	MCHA	2R01 GM05829-17	120,737
LEVINE, NORMAN D	MICROMETEOROLOGY AND ECOLOGY OF PARASITIC NEMATODES	TMP	5R01 AI06197-12	65,532
MALMSTADT, HOWARD V	NEW CLINICAL/ANALYTICAL METHODOLOGY	MCHB	1R01 GM21984-01	88,475
MARTIN, JAMES C	SYNTHETIC AND PHYSICAL STUDIES OF ANTICANCER AGENTS	MCHA	5R01 CA13963-03	33,323
MC CLURE, WILLIAM O	STUDIES OF NEURAL PROTEINS	NEUB	5R01 NS09082-04	40,451
MISTRY, SORAB P	BIOCHEMICAL STUDIES ON BIOTIN	NTN	5R01 AM08373-09	37,091
NALBANDOV, ANDREW V	ENDOCRINOLOGY OF REPRODUCTION	END	5R01 HD03043-13	68,787
NANNEY, DAVID L	GENETIC STUDIES WITH TETRAHYMENA	CBY	5R01 GM07779-13	75,838
NATUSCH, DAVID F	INTERACTIONS OF TOXIC METAL SPECIES WITH BIOMOLECULES	BBCB	5R01 ES00997-02	49,365
NISHIDA, TOSHIRO	ROLE OF PLASMA LIPOPROTEINS IN ATHEROSCLEROSIS	MET	1R01 HL17597-01	57,018
ORDAL, GEORGE W	PHOTOTACTIC AND CHEMOTACTIC BEHAVIOR OF BACTERIA	BM	5R01 GM21130-02	38,884
PAUL, IAIN C	X-RAY STUDIES ON BIOLOGICALLY IMPORTANT MOLECULES	BBCA	5R01 GM19336-04	57,148
PIRKLE, WILLIAM H	STUDY OF ENANTIOMERS IN ASYMMETRIC ENVIRONMENTS	MCHB	2R01 GM14518-08	45,942
PROSSER, C LADD	INTESTINAL MOTILITY, MYOGENICITY, NEURAL CONTROL	PHY	5R01 AM12768-07	39,294
REICHMANN, MANFRED E	AUTOINTERFERENCE IN VIRUS INFECTIONS AND MALIGNANCY	VR	5R01 AI12070-02	38,422
RINEHART, KENNETH L, JR	CHEMISTRY AND BIOCHEMISTRY OF CERTAIN ANTIBIOTICS	MCHB	2R01 AI01278-19	72,696
RINEHART, KENNETH L, JR	MASS SPECTRA OF ANTIBIOTICS AND RELATED COMPOUNDS	MCHB	5R01 AI04769-14	61,081
SARGENT, MALCOLM L	BIOCHEMICAL GENETICS OF NEUROSPORA CIRCADIAN RHYTHMS	GEN	5R01 GM16541-07	28,809
SAVAGE, DWAYNE C	INFLUENCES OF NORMAL MICROFLORA ON GUT HISTOLOGY	BM	5R01 AI11858-02	31,089
SCHMIDT, PAUL G	NMR STUDIES OF ASPARTATE TRANSCARBAMYLASE AND TRNA	BBCB	5R01 GM18038-05	31,774
SEGRE, DIEGO	ANTIBODY PLAQUES IN IMMUNOLOGIC INVESTIGATIONS	ALY	5R01 AI09743-05	40,765
SEGRE, DIEGO	PARAMETERS OF THE IMMUNE RESPONSE IN AGED MICE	ALY	5R01 HD07624-03	39,875
SHAPIRO, DAVID J	CHOLESTEROL REGULATION OF HMG-COA REDUCTASE SYNTHESIS	PC	1R01 HL17882-01	43,556
SHERWOOD, ORRIN D	RELAXIN: STRUCTURAL AND PHYSIOLOGICAL STUDIES	REB	1R01 HD08700-01	49,389
SLEATOR, WILLIAM W	ANALYSIS OF THE ACTIVATION PROCESS IN HEART MUSCLE	PHY	5R01 HL13349-06	38,977
STEFFENSEN, DALE M	GENE LOCALIZATION IN MAN USING RNA, DNA HYBRIDIZATION	GEN	5R01 GM21123-02	39,623
STORM, DANIEL R	MECHANISM OF ACTION FOR BACITRACIN, POLYMYXIN AND EM49	MBC	1R01 AI12821-01	36,102
SWITZER, ROBERT L	NOVEL CONTROL MECHANISMS IN ENDOSPORE FORMATION	MBC	5R01 AI11121-03	8,003
SWITZER, ROBERT L	REGULATION AND MECHANISM OF PRPP SYNTHETASE	BIO	2R01 AM13488-07	66,970
TEITELBAUM, PHILIP	EFFECT OF LEARNING ON LATERAL HYPOTHALAMIC RECOVERY	EXP	5R01 NS11671-02	57,526
TERJUING, RONALD L	CARDIOVASCULAR ADAPTATIONS INDUCED BY EXERCISE	AFY	5R01 AM17666-02	47,006
TOMPKINS, WAYNE A	CELLULAR IMMUNITY TO FIBROMA VIRUS AND FIBROMA INDUCTION	VR	2R01 CA12507-04	40,237
TUVESON, ROBERT W	VIRUSES AND MATERNAL INHERITANCE IN NEUROSPORA CRASSA	VR	5R01 AI11152-02	29,683
UHLINBECK, OLKE C	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACID	BBCA	2R01 GM19059-04	84,246
WEBER, GREGORIO	PROTEIN CONFIGURATION BY FLUORESCENCE TECHNIQUES	BBCA	5R01 GM11223-13	129,989
WEBER, MICHAEL J	EARLY CELL-SURFACE CHANGES IN VIRAL ONCOGENESIS	CBY	3R01 CA12467-04S1	4,500
WILLIS, JOHN S	ION TRANSPORT IN CELLS OF HIBERNATING MAMMALS	MBY	5R01 GM11494-12	61,722
WILLIS, JUDITH H	ANALYSIS OF DEVELOPMENT IN INSECTS	TMP	9R01 AG00248-04	55,842
WOESE, CARL R	MACROMOLECULAR SYNTHESIS IN PROCARYOTES	MBC	5R01 AI06457-10	46,800
WOLFE, RALPH S	A NEW MICROBIAL VITAMIN-COENZYME RELATIONSHIP	MBC	1R01 AI12277-01	39,308
WONG, PAUL K	GENETIC STUDIES OF MURINE LEUKEMIA VIRUSES	VR	1R01 CA17695-01	36,988
YANKWICH, PETER E	MODELING THE TRANSITION STATE OF ENZYMIC REACTIONS	BBCA	5R01 GM18362-02	38,202
ZEHR, JOHN E	CENTRAL NERVOUS CONTROL OF RENIN AND BLOOD PRESSURE	GMB	5R01 HL15307-03	30,176
ORGANIZATION TOTAL	96 4,835,559			
STATE TOTAL	596 44,362,532			

## INDIANA

### BLOOMINGTON

INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT BLOOMINGTON ZIP CODE 47401

ALLERHAND, ADAM	CARBON-13 NMR STUDIES ON DYNAMICS OF BIOLOGICAL SYSTEMS	BBCB	5R01 NS10977-03	33,342
BECK, LYLE V	PERFUSION STUDY ON ANTERIOR PITUITARY FUNCTION	END	5R01 AM15902-04	26,665
BLUMENTHAL, THOMAS	QBETA REPLICASE AND PROTEIN SYNTHESIS T-FACTOR	SSS	3R01 GM21024-01S1	12,500



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>INDIANA—Continued</b>				
BLUMENTHAL, THOMAS	QBETA REPLICASE AND PROTEIN SYNTHESIS T-FACTOR	SSS	5R01 GM21024-02	32,524
BRIGGS, ROBERT W	GENE ACTION IN OOGENESIS AND EMBRYONIC DEVELOPMENT	CBY	5R01 GM05850-17	46,303
CAMPAIGNE, ERNEST E	BIOISOSTERES OF BIOLOGICALLY ACTIVE INDOLES	WCHA	5R01 GM10366-12	59,863
CORDES, EUGENE H	REACTION KINETICS AT AMPHIPATHIC SURFACES	MCHB	5R01 GM19631-12	46,365
CRAIG, JAMES C	CUTANEOUS CODING AND PATTERN PERCEPTION	CMS	5R01 NS09783-05	51,455
GURD, FRANK R	STRUCTURE AND REACTIVITY OF PROTEINS AND LIPOPROTEINS	BBCA	5R01 HL05556-15	110,057
GURD, FRANK R	SPECIFIC ENRICHMENT OF MYOGLOBINS FOR CARBON-13 NMR	BBCB	5R01 HL14680-04	52,576
HAUROWITZ, FELIX	HETEROGENEITY OF IMMUNOGLOBULINS AND OTHER PROTEINS	ALY	5R01 AI09752-26	21,105
HAYES, JOHN M	STABLE ISOTOPE RATIO MEASUREMENT	WCHB	2R01 GM18979-04	146,130
HEGEMAN, GEORGE D	EVOLUTION OF BACTERIAL ENZYME SYSTEMS	MBG	5R01 HD07314-03	37,518
HIRS, CHRISTOPHE H	STRUCTURE AND FUNCTION OF PANCREATIC ENZYMES	PC	2R01 AM14307-06	93,743
MAHLER, HENRY R	THE BIOSYNTHESIS OF RESPIRATORY ENZYMES	BIO	5R01 GM12228-12	112,520
MAHLER, HENRY R	DYNAMICS OF NEURONAL MEMBRANE PROTEINS	NEUB	2R01 NS08309-05A1	66,669
MAHOWALD, ANTHONY P	ULTRASTRUCTURAL STUDIES OF EMBRYONIC DETERMINATION	CBY	5R01 HD07983-02	34,168
MC QUARRIE, DONALD A	FORCE BALANCE IN POLYELECTROLYTE SYSTEMS	BBCB	5R01 GM20800-02	37,436
MERRITT, LYNNE L, JR	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07031-10	59,511
NOVOTNY, MILOS V	HIGH-RESOLUTION LIQUID CHROMATOGRAPHY OF LIPIDS	MCHB	5R01 GM20671-02	27,288
PISONI, DAVID B	AUDITORY AND PHONETIC PROCESSES IN SPEECH PERCEPTION	DBR	1R01 NS12179-01	90,304
POTTER, H DAVID	DYNAMIC ASPECTS OF NEUROFILAMENTS AND MICROTUBULES	NEUB	5R01 NS08964-05S1	19,100
POTTER, H DAVID	DYNAMIC ASPECTS OF NEUROFILAMENTS AND MICROTUBULES	NEUB	5R01 NS08964-06	53,008
PREER, JOHN R, JR	GENETIC AND PHENOTYPIC STUDIES ON A CYTOPLASMIC FACTOR	GEN	5R01 GM20038-02	37,054
PUTNAM, FRANK W	ABNORMAL PROTEINS IN MULTIPLE MYELOMA	ALY	5R01 CA08497-10	116,555
RAFF, RUDOLF A	REGULATION OF PROTEIN SYNTHESIS IN EARLY DEVELOPMENT	CBY	5R01 HD06902-03	27,841
RICHARDSON, JOHN P	FACTORS THAT CONTROL RNA TRANSCRIPTION	MBG	5R01 AI10142-05	34,895
RICHMOND, ROLLIN C	ADAPTIVE SIGNIFICANCE OF ALLOZYME VARIATION	GEN	2R01 GM18690-04	55,360
SCANZONI, JOHN H	FOLLOW-UP STUDY OF SEX ROLE NORMS AND FERTILITY CONTROL	POP	1R01 HD09268-01	105,641
SCHWARTZ, ILSA R	DYNAMIC ASPECTS OF AUDITORY SYNAPTIC TERMINALS	CMS	2R01 NS09996-02	31,394
SINCLAIR, JOHN H	COMPOSITION AND REGULATION OF THE RIBOSOMAL GENOME	CBY	5R01 GM20532-02	34,424
SONNEBORN, TRACY M	NORMAL AND ABNORMAL CELL GROWTH AND HEREDITY	GEN	5R01 GM15410-08	115,919
STARR, RICHARD C	CONTROL OF CELLULAR DIFFERENTIATION	CBY	5R01 GM21029-02	29,685
STRICKHOLM, ALFRED	MEMBRANE STRUCTURE AND FUNCTION IN MUSCLE AND NERVE	PHY	5R01 GM14907-08	44,311
TAYLOR, MILTON W	MUTANTS OF MAMMALIAN CELL LINES	GEN	2R01 GM18924-04	63,419
ORGANIZATION TOTAL	35	1,966,648		

## GOSHEN

GOSHEN COLLEGE ZIP CODE 46526

JACOBS, MERLE E	EFFECTS OF BETA-ALANINE AND DOPAMINE ON BEHAVIOR	GEN	2R01 GM18680-04	27,368
ORGANIZATION TOTAL	1	27,368		

## INDIANAPOLIS

INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS ZIP CODE 46202

ALLEN, DONALD O	THE ROLE OF ADRENOCHORTICIDS IN LIPOLYSIS	MET	5R01 AM14070-05	23,015
ARMSTRONG, WILLIAM M	ION TRANSPORT IN SMALL INTESTINE	PHY	2R01 AM12715-07	44,966
ASHMORE, JAMES	STUDIES ON EXPERIMENTAL DIABETES	MET	2R01 AM14340-06	57,047
BAEHNER, ROBERT L	LEUKOCYTE METABOLISM RELATED TO RECURRENT INFECTION	HEM	5R01 HL10892-03	46,667
BAEHNER, ROBERT L	COOPERATIVE STUDY OF CHILDREN'S CANCER	CCI	2R10 CA13809-03	66,330
BEERING, STEVEN C	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05371-14	234,038
BIXLER, DAVID	ORAL-FACIAL VARIATIONS IN RELATIVES OF CLEFT PROBANDS	DEN	5R01 DE03707-03	62,208
BOCKRATH, RICHARD C	RADIATION INDUCED CELLULAR MUTAGENESIS AND DNA REPAIR	RAD	1R01 GM21788-01	17,522
CAMPBELL, ROBERT L	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE	SSS	1R01 NS12498-01	16,065
DAVIS, ELDRED J	REGULATORY MECHANISMS IN ENERGY METABOLISM	MET	5R01 GM13939-05	39,891
DYKEN, MARK L, JR	ROLE OF ASPIRIN IN CEREBRAL ISCHEMIA	TEC	5R01 HL14285-03	51,408
FISCH, CHARLES	MECHANISMS AND THERAPY OF CIRCULATORY DISEASE	HEP	5P01 HL06308-15	380,182
FRIEDMAN, JULIUS J	THE DYNAMICS OF MICROCIRCULATORY FUNCTION	CVA	5R01 HL16094-02	19,984
GREENSPAN, KALMAN	CARDIAC DYSRHYTHMIAS: INDUCTION AND THERAPY	CVB	1R01 HL16747-01	26,284
HADD, HARRY E	POTENTIAL SCREENING AGENT FOR CANCER OF THE PROSTATE	SRC	5R26 CA15501-02	35,008
HARPER, EDWIN T	ION-AFFINITY ELECTROPHORESIS OF HEMOGLOBIN VARIANTS	BBCA	1R01 AM18057-01	18,381

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator		Project title	IRG	Grant number	Dollars
<b>INDIANA—Continued</b>					
HIGGINS, JAMES T. JR.		SUPPORT FOR CENTER OF RESEARCH IN HYPERTENSION	SRC	5P17 HL14159-05	205,380
IATRIDS, PANAYOTIS G.		THE ROLE OF HAGEMAN FACTOR IN FIBRINOLYSIS	HEM	5R01 HL15425-02	33,240
JOHNSTON, CYRUS C. JR.		STUDIES OF METABOLISM OF HUMAN BONE	GMB	5R01 AM07126-12	34,646
JOHNSTON, CYRUS C. JR.		SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00750-03	399,506
KATZ, SIMON		MODIFIED OAT HULLS: CARIOSTATIC AND NUTRITIONAL VALUE	NTN	1R01 DE04103-01	36,797
LI, TING-KAI		METABOLIC CONTROL MECHANISMS IN AGING OF SPERMATOZOA	REB	5R01 HD07231-02	43,800
LLOYD, THOMAS C. JR.		PULMONARY VASCULAR AND LEFT ATRIAL BAROREFLEXES	CVA	5R01 HL15694-02	33,983
MC DONALD, RALPH E.		GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05312-14	20,279
MEALEY, JOHN, JR.		CHEMOTHERAPY OF INTRACRANIAL NEOPLASMS	ET	5R01 CA06145-14	50,048
MERRITT, A DONALD		GENETIC AND BIOCHEMICAL STUDIES OF HUMAN AMYLASE	GEN	2R01 GM19178-04	58,722
MERRITT, DORIS H.		SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	SRC	5P18 HL15166-04	436,968
NANCE, WALTER E.		INDIANA MEDICAL SCHOOL HUMAN GENETICS CENTER	SSS	3P01 GM21054-01S1	59,576
NIKLOWITZ, WERNER J.		EFFECT OF TOXIC METALS ON SPECIFIC BRAIN STRUCTURES	NEUB	7R01 ES01171-01	41,630
OCHS, SIDNEY		ANALYSIS OF AXOPLASMIC TRANSPORT	NEUA	5R01 NS08706-06	77,523
PHILLIPS, RALPH W.		INFLUENCE OF FLUORIDE ON WETTABILITY AND RESTORATIVES	SSS	3P01 GM21054-01S1	72,512
ROESKE, ROGER W.		DESIGN & DEVELOPMENT OF CHELATORS FOR LEAD & MERCURY	TOX	1R01 ES00942-01	42,010
ROTHE, CARL F.		CONTROL OF CENTRAL VENOUS PRESSURE IN SHOCK	PHY	2R01 HL07723-12A1	24,982
SAWYER, WILLIAM D.		PATHOBIOLOGY OF GONOCOCCAL INFECTION	BM	5R01 AI12087-02	54,739
SNODGRASS, PHILIP J.		INDUCTION AND SUPPRESSION OF UREA CYCLE ENZYMES	ET	5R01 AM17299-03	29,493
TANNER, GEORGE A.		KIDNEY FUNCTION AFTER RENAL ARTERY OCCLUSION	CVA	5R01 HL13929-04	15,321
THOMPSON, RICHARD M.		DETERMINATION OF GLUCURONIDES BY GAS PHASE ANALYSIS	SSS	1R01 AM17665-01	55,196
WATANABE, AUGUST M.		ISCHEMIC ARRHYTHMIAS. EFFECT OF AUTONOMIC TONE	SRC	1R01 HL18795-01	60,300
WATSON, RONALD R.		MALNUTRITION AND SECRETORY IMMUNOGLOBULIN A	ALY	5R01 HD09098-02	24,086
WEBER, GEORGE		CORRELATED STUDY OF METABOLIC REGULATION IN NEOPLASIA	CAK	2P01 CA13526-04	431,839
WEINBERGER, MYRON H.		CONTROL OF RENIN RELEASE BY THE KIDNEY IN VITRO	CVB	3R01 HL13764-03S1	1,499
WRIGHT, PETER H.		INSULIN METABOLISM IN IMMUNE AND NONIMMUNE SUBJECTS	MET	5R01 AM16534-03	32,576
YOUNG, PETER C.		PROGESTERONE RECEPTORS IN HUMAN ENDOMETRIAL CANCER	END	1R01 CA17235-01	27,198
ZEMAN, WOLFGANG		STUDY OF DIFFUSE DEGENERATIVE CNS DISEASES	PTHA	2R01 NS04607-11A2	60,068
ORGANIZATION TOTAL	44	3,602,913			
<b>INDIANAPOLIS CENTER FOR ADVANCED RESEARCH      ZIP CODE 46202</b>					
EGGLETON, REGINALD C.		MICROSCOPIC EVALUATION OF CARDIOACTIVE DRUGS IN VITRO	CVB	5R01 HL16311-02	36,504
HEIMBURGER, ROBERT F.		ULTRASONIC VISUALIZATION ASSESSMENT OF BRAIN TRAUMA	RAD	5R01 NS10983-03	41,316
ORGANIZATION TOTAL	2	77,820			
<b>WRIGHT INSTITUTE OF OTOLGY      ZIP CODE 46219</b>					
WEGENER, JONATHAN G.		STUDIES OF BRAIN FUNCTION IN AUDITORY BEHAVIOR	CMS	7R01 NS12495-01	42,530
ORGANIZATION TOTAL	1	42,530			
<b>MUNCIE</b>					
<b>BALL STATE UNIVERSITY      ZIP CODE 47306</b>					
COSTILL, DAVID L.		MUSCLE WATER AND ELECTROLYTES DURING DEHYDRATION	AFY	5R01 AM17083-02	27,546
ORGANIZATION TOTAL	1	27,546			
<b>NOTRE DAME</b>					
<b>UNIVERSITY OF NOTRE DAME      ZIP CODE 46556</b>					
BASU, SUBHASH C.		GLYCOLIPID METABOLISM IN TUMOR AND TRANSFORMED CELLS	PC	1R01 CA14764-01A1	52,939
BASU, SUBHASH C.		METABOLISM OF GLYCOPHINGOLIPIDS IN ANIMAL CELLS	PC	5R01 NS09541-05	38,939
CASTELLINO, FRANCIS J.		STRUCTURE-FUNCTION STUDIES ON PLASMINOGEN AND PLASMIN	HEM	2R01 HL13423-05	55,693
CASTELLINO, FRANCIS J.		STUDY OF PLASMINOGEN ISOZYMES AND STREPTOKINASE	HEM	5R01 HL15747-02	9,195
CRAIG, GEORGE B. JR.		GENETICS AND REPRODUCTIVE BIOLOGY OF AEDES MOSQUITOES	SSS	5R01 AI02753-16	116,176
FUCHS, MORTON S.		REPRODUCTIVE PHYSIOLOGY OF AEDES MOSQUITOES	TMP	2R01 AI10707-04	66,919
GORDON, ROBERT E.		SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07033-10	40,466
HAYES, ROBERT G.		X-RAY PHOTOELECTRON SPECTROSCOPY OF HEME COMPOUNDS	BBCB	3R01 HL13651-03S1	9,628
HAYES, ROBERT G.		X-RAY PHOTOELECTRON SPECTROSCOPY OF HEME COMPOUNDS	BBCB	2R01 HL13651-04	53,982
MARTINEZ-CARRION, MARINO		PROBES OF MOLECULAR FUNCTION IN PYRIDOXAL ENZYMES	BIO	5R01 GM20727-02	40,907
MARTINEZ-CARRION, MARINO		ISOZYMES OF HEART GLUTAMATE ASPARTATE TRANSAMINASE	BIO	5R01 HL11448-08	19,752

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>INDIANA—Continued</b>				
NOWAK, THOMAS	NMR STUDIES OF METALS IN KINASES AND RELATED ENZYMES	BBCA	5R01 AM17049-02	41,408
POLLARD, MORRIS	DEVELOPMENT AND STUDY OF GERM-FREE BUFFALO RATS	SRC	5R26 CA15957-02	45,854
POLLARD, MORRIS	INVESTIGATIONS ON PROSTATE ADENOCARCINOMAS IN RATS	SRC	1R26 CA17559-01	57,837
POLLARD, MORRIS	DEVELOPMENT AND MAINTENANCE OF GERM-FREE ANIMAL COLONIES	AR	5P06 RR00294-10	117,552
SAZ, HOWARD J.	INTERMEDIARY METABOLISM OF HELMINTHS	TMP	2R01 AI09483-06	88,063
SAZ, HOWARD J.	CHEMOTHERAPY AND METABOLISM OF FILARIDS	TMP	2R22 AI10512-04	30,020
SCHIEDT, W. ROBERT	X-RAY AND CHEMICAL STUDIES OF METALLOPORPHYRINS	BBCB	5R01 HL15627-03	32,675
WEINSTEIN, PAUL P.	DEVELOPMENT OF PARASITIC HELMINTHS IN VITRO	TMP	2R01 AI09625-06	80,472
WOSTMANN, BERNARD S.	ANTIBIOTICS: EFFECTS ON BILE ACIDS AND CHOLESTEROL	BM	1R01 AI12593-01	42,227
WOSTMANN, BERNARD S.	MICROBIAL EFFECTS IN CHOLESTEROL METABOLISM	BM	5R01 HL08351-09	26,422
ORGANIZATION TOTAL	21	1,067,126		
<b>TERRE HAUTE</b>				
INDIANA STATE UNIVERSITY	ZIP CODE 47809			
DUSANIC, DONALD G.	METABOLIC & IMMUNOPHYSIOLOGIC STUDIES ON TRYPA NOSOMA	TMP	2R01 AI11369-03	34,240
ORGANIZATION TOTAL	1	34,240		
<b>WEST LAFAYETTE</b>				
PURDUE UNIVERSITY	ZIP CODE 47907			
ANDREWS, FREDERICK N.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07032-10	69,243
ARNOTT, STRUTHER	MOLECULAR GEOMETRIES OF NUCLEIC ACIDS	BBCA	3R01 GM17371-04S1	5,900
ARNOTT, STRUTHER	MOLECULAR GEOMETRIES OF MUCOPOLYSACCHARIDES	BBCA	5R01 GM20682-02	44,934
ARONSON, ARTHUR I.	MORPHOGENESIS OF BACTERIAL SPORES	SSS	5R01 GM20606-02	54,872
AUNON, JORGE J.	QUANTIFICATION OF SINGLE EVOKED RESPONSES	NEUA	1R01 NS12298-01	36,277
AXELROD, BERNARD	ROLE OF LYSOSOMAL L-TARTRATE-INHIBITABLE PHOSPHATASE	SSS	5R01 GM21368-02	33,200
AXELROD, BERNARD	MECHANISM OF ACTION OF GLYCOSIDASES	PC	1R01 GM22189-01	46,902
BRANDT, KARL G.	ELECTRON TRANSPORT IN PYRUVATE DEHYDROGENASE COMPLEX	BIO	2R01 GM19458-04	41,677
BROWN, HERBERT C.	STEREOSPECIFIC SYNTHESIS VIA HYDROBORATION	MCHA	5R01 GM10937-13	56,714
BYRN, STEPHEN R.	STRUCTURAL STUDIES OF PHYSIOLOGICALLY ACTIVE AGENTS	BBCA	5R01 ES00929-02	39,790
BYRN, STEPHEN R.	SOLID STATE REACTIONS IN MEDICINAL CHEMISTRY	MCHB	3R01 GM21174-01S1	6,464
CAPALDI, EGIDIO J.	SEQUENTIAL PROCESSES IN INSTRUMENTAL LEARNING	EXP	2R01 HD04379-07	49,026
CAPRIOLI, RICHARD M.	STUDY OF MECHANISM OF ACTION OF ALDOLASES	BIO	5R01 GM20763-02	24,399
CARLTON, WILLIAM W.	CARCINOGENIC ACTIVITY OF TOXIGENIC PENICILLIA	TOX	5R01 ES00463-06	77,623
CASSADY, JOHN M.	SYNTHESIS OF ERGOLINES AS PROLACTIN INHIBITORS	MCHA	2R01 CA13278-07	41,527
CLARK, HELEN E.	UTILIZATION OF ESSENTIAL AMINO ACIDS BY MAN	NTN	2R01 AM08533-11	39,428
CLEGG, ERIC D.	SUBCELLULAR INVESTIGATION OF PIG SPERM CAPACITATION	REB	5R01 HD07013-03	30,987
COPPOC, GORDON L.	ORNITHINE DECARBOXYLASE REGULATION IN TUMORS	BIO	1R01 CA15873-01	37,603
CRAMER, WILLIAM A.	THE MECHANISM OF ACTION OF COLICIN	BBCA	2R01 GM18457-04	53,659
DAS, GOPAL D.	EXPERIMENTAL BRAIN TUMORS: DEVELOPMENTAL STUDIES	PTHA	5R01 CA14650-02	55,534
DAS, GOPAL D.	NEUROGENESIS: NORMATIVE AND EXPERIMENTAL STUDIES	PTHA	2R01 NS08817-05A2	53,390
DILLEY, RICHARD A.	CHEMICAL MODIFICATION OF ENERGY-TRANSDUCING MEMBRANES	BIO	5R01 GM19595-03	44,278
FETH, LAWRENCE L.	FREQUENCY DISCRIMINATION AND PITCH OF COMPLEX TONES	CMS	1R01 NS12235-01	34,162
FETH, LAWRENCE L.	THE ACOUSTICS OF HEARING AIDS	CMS	1R01 NS12526-01	21,565
FLOSS, HEINZ G.	STUDY OF BIOLOGICALLY ACTIVE MICROBIAL METABOLITES	MCHA	5R01 AI11728-02	77,198
FLOSS, HEINZ G.	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	1P01 CA16971-01	31,700
FLOSS, HEINZ G.	BIOSYNTHESIS OF ERGOT ALKALOIDS	MCHA	9R01 CA17482-07	57,956
FLOSS, HEINZ G.	STEREOCHEMISTRY OF ENZYME REACTIONS	BIO	2R01 GM18852-04	42,845
FOSTER, JOSEPH F.	CONFIGURATIONAL CHANGES IN PROTEIN MOLECULES	BBCA	5R01 HL14972-21	103,913
GEDDES, LESLIE A.	PREDICTIVE VENTRICULAR DEFIBRILLATION	CVA	1R01 HL17855-01	52,165
GILHAM, PETER T.	STUDIES ON THE FINE STRUCTURE OF NUCLEIC ACIDS	BIO	3R01 GM11518-11S1	3,400
GILHAM, PETER T.	METHODS FOR THE SEQUENCE ANALYSIS OF DNA	BIO	3R01 GM18533-04S1	3,299
GILHAM, PETER T.	SYNTHESIS OF POLYRIBONUCLEOTIDES OF DEFINED SEQUENCE	BIO	5R01 GM19395-04	74,013
GOLUB, EDWARD S.	THE INDUCTION OF IMMUNOLOGICAL TOLERANCE	ALY	5R01 AI08800-06	49,096
GOLUB, EDWARD S.	BRAIN ASSOCIATED HEMATOPOIETIC ANTIGENS	IMB	1R01 CA18641-01	50,075
GRAHAM, DALE E.	THE EUKARYOTE GENOME: EVOLVING STRUCTURE AND FUNCTION	SSS	1R01 GM21954-01	77,324
HARTL, DANIEL L.	EVOLUTION OF NEW BETA-GALACTOSIDASES IN E. COLI	MBC	1R01 GM21623-01A1	36,338
HARTL, DANIEL L.	GENETIC AND POPULATION STUDIES OF SPERM DYSFUNCTION	GEN	5R01 GM21732-02	24,893



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>INDIANA—Continued</b>				
HERRMANN, KLAUS M.....	BIOCHEMICAL AND GENETIC STUDIES OF DAHP-SYNTHETASE.....	MBC	2R01 GM17678-04	34,470
HILLBERRY, B. M.....	EFFECT OF JOINT MOTION ON ARTICULAR CARTILAGE.....	AFY	5R01 AM17482-02	56,813
HOLTON, ROBERT A.....	SYNTHESIS OF ALKALOIDS AND MACROCYCLES.....	MCHB	1R01 GM21992-01	25,124
HORNEMANN, ULFERT.....	BIOSYNTHESIS OF THE MITOMYCIN ANTIBIOTICS.....	MCHA	5R01 CA14378-06	66,140
JAFFE, LIONEL F.....	ENDOGENOUS ELECTRICAL CONTROLS OF NEURITE GROWTH.....	CBY	5R01 NS11545-02	72,962
KIM, KI-HAN.....	MODE OF INSULIN ACTION AND ENZYME MODIFICATION.....	BIO	2R01 AM12865-07	41,533
KIM, KI-HAN.....	NUCLEAR ACCEPTOR SITE FOR THE ESTROGEN-RECEPTOR.....	BIO	1R01 AM18464-01	41,859
KOFFLER, HENRY.....	BACTERIAL FLAGELLA.....	MBC	5R01 AI00685-20	58,115
KOHLHAW, GUNTER B.....	REGULATION OF LEUCINE BIOSYNTHESIS.....	BIO	5R01 GM15102-08	44,926
KRAMER, PAUL A.....	TISSUE-SPECIFIC DELIVERY OF ANTICANCER AGENTS.....	ET	1R01 AI17866-01	35,296
LASKOWSKI, MICHAEL, JR.....	CHEMISTRY OF LOCAL ENVIRONMENTS IN PROTEIN.....	BBCA	5R01 GM10831-16	176,450
LEVINTHAL, MARK.....	ORIGIN AND REPLICATION OF PI-HISTIDINE FACTOR.....	GEN	5R01 GM19413-02	47,575
LIGHT, ALBERT.....	INTESTINAL BOVINE ENTEROKINASE.....	PC	1R01 GM22261-01	46,814
LOVETT, JAMES S.....	THE ROLE OF NUCLEAR CAP RNA IN FUNGAL DEVELOPMENT.....	BM	5R01 AI04783-13	45,511
MARGERUM, DALE W.....	METAL ION TRANSFER AND CATALYSIS IN PEPTIDE COMPLEXES.....	MCHB	5R01 GM12152-11	51,437
MARGERUM, DALE W.....	ACTIVATION OF MOLECULAR OXYGEN BY METAL PEPTIDES.....	MCHA	5R01 GM19775-03	33,981
MARKLEY, JOHN L.....	NMR STUDIES OF SELECTIVELY C-13 ENRICHED PROTEINS.....	BBCB	5R01 GM19907-03	54,493
MC LAUGHLIN, JERRY L.....	CACI AS DRUGS OF ABUSE.....	MCHB	5R01 GM21211-02	32,676
MENNEAR, JOHN H.....	MECHANISMS OF DRUG-INDUCED DIABETES.....	MET	5R01 AM14134-04	26,696
MENNEAR, JOHN H.....	STUDIES ON THE PANCREATOXIC EFFECTS OF CADMIUM.....	TOX	1R01 ES01123-01	54,055
MERTZ, EDWIN T.....	ACTIVATION AND CHEMICAL NATURE OF PLASMINOGEN.....	HEM	5R01 HL08401-12	37,388
MINTHENTAL, JAY E.....	SYNAPTIC CONNECTIVITY IN MOTOR SYSTEMS.....	CBY	5R01 NS11383-02	36,470
MIYA, TOM S.....	CADMIUM-INDUCED PROLONGATION OF DRUG ACTION.....	TOX	5R01 ES00921-03	50,876
MIYA, TOM S.....	CIRCADIAN RHYTHMS IN DRUG RESPONSE AND DRUG METABOLISM.....	PHRA	5R01 GM20340-02	34,601
MORRE, D JAMES.....	GLYCOLIPID METABOLISM AND TUMORIGENESIS.....	MBY	3R01 CA13145-03S1	2,195
MORTENSON, LEONARD E.....	STUDY OF INORGANIC NITROGEN METABOLISM.....	MBC	5R01 AI04865-13	78,846
MORTER, RAYMOND L.....	IMPROVEMENT OF INSTITUTIONAL ANIMAL RESOURCES.....	AR	5P06 RR00782-02	60,826
MORTER, RAYMOND L.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05459-11	34,971
MOSKOWITZ, MERWIN.....	LOW MOLECULAR WEIGHT CELL GROWTH FACTORS IN SERUM.....	SSS	1R01 CA15076-01A2	101,042
NAKAJIMA, SHIGEHIO.....	CELLULAR BIOPHYSICS OF NEUROMUSCULAR FUNCTION.....	PHY	5R01 NS08061-06	79,111
NAKAJIMA, YASUKO.....	ULTRASTRUCTURE AND FUNCTION OF NERVE AND MUSCLE.....	NEUB	5R01 NS10457-04	49,003
OFFENBACH, STUART I.....	DEVELOPMENT OF COLOR-FORM PREFERENCE AND PERCEPTION.....	DBR	1R01 HD09514-01	30,546
OSTROY, SANFORD E.....	RELATED MOLECULAR AND PHYSIOLOGICAL EVENTS IN VISION.....	VIS	5R01 EY00413-07	42,514
PAK, WILLIAM L.....	SENSORY EXCITATION AND INFORMATION FLOW IN THE RETINA.....	SSS	2R01 EY00033-06	79,469
PARDUE, HARRY L.....	INSTRUMENTATION FOR FAST CLINICAL ANALYSES.....	COM	5R01 GM13326-09	62,284
PASCHKE, JOHN D.....	VIRAL PATHOGENS.....	TMP	5R01 AI09972-05	53,169
PERONE, SAM P.....	APPLICATION OF ELECTROCHEMISTRY TO RADIATION BIOLOGY.....	BBCA	3R01 CA07773-11S1	40,712
PINTO, LAWRENCE H.....	IONIC MECHANISMS FOR RETINAL NEURON POTENTIALS.....	VISB	5R01 EY01221-02	32,108
RAY, WILLIAM J, JR.....	MECHANISM OF THE GROUP TRANSFER PROCESS.....	BIO	2R01 GM08963-13	92,138
REMERS, WILLIAM A.....	AMINOGLYCOSIDE ANTIBIOTICS WITH AZIRIDINE RINGS.....	MCHA	1R01 AI12733-01	34,515
REMERS, WILLIAM A.....	ANTITUMOR AGENTS-SYNTHESIS OF MITOMYCIN ANALOGS.....	MCHA	2R01 CA11686-05	44,183
RODWELL, VICTOR W.....	COENZYME REGULATION OF BACTERIAL PROTEIN DEGRADATION.....	SSS	1R01 AI12311-01	6,000
ROSSMANN, MICHAEL G.....	STRUCTURE OF A SMALL SPHERICAL VIRUS.....	BBCB	5R01 AI11219-03	70,229
ROSSMANN, MICHAEL G.....	STRUCTURAL STUDIES OF PROTEIN SUBUNITS.....	BBCB	5R01 GM10704-13	108,879
SMITH, L DENNIS.....	CYTOPLASMIC REGULATION AT EARLY CELL DIFFERENTIATION.....	MBY	5R01 HD04229-07	87,570
SOMERVILLE, RONALD L.....	REGULATORY MECHANISMS IN TRYPTOPHAN BIOSYNTHESIS.....	MBC	1R01 GM22131-01	49,826
TESSMAN, ETHEL S.....	REGULATORY MECHANISMS IN SMALL DNA PHAGES.....	GEN	2R01 AI11853-02	62,347
TOBIAS, R STUART.....	HEAVY METAL AND RELATED CHEMOTHERAPEUTIC AGENTS.....	MCHB	2R01 AM16101-04	75,021
TRUCE, WILLIAM E.....	ORGANIC SULFUR CHEMISTRY AND CANCER CHEMOTHERAPY.....	MCHB	3R01 CA04536-16S1	3,120
TYLER, VARRO E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05586-08	71,984
UMBARGER, H EDWIN.....	ENZYMIC MECHANISMS IN BIOSYNTHETIC PATHWAYS.....	BIO	5R01 GM12522-11	176,570
WHISTLER, ROY L.....	5-THIO-D-GLUCOSE IN THE GLYCOLYTIC PATHWAY.....	BIO	1R01 AM18482-01	47,591
WHISTLER, ROY L.....	4'-THIONUCLEOSIDES.....	MCHA	2R01 CA12422-04	57,154
WILLIAMS, LUTHER S.....	REGULATION OF AMINOACYL-TRNA SYNTHETASE FORMATION.....	BIO	7R01 GM21878-01	45,723
YIM, GEORGE K.....	MECHANISM OF LOCAL ANESTHETIC SEIZURES.....	PHRA	1R01 NS12077-01	33,146
ZALKIN, HOWARD.....	REGULATORY ENZYMES IN TRYPTOPHAN BIOSYNTHESIS.....	PC	5R01 CA11442-05	46,808
ORGANIZATION TOTAL	94	4,729,230		
STATE TOTAL	200	11,575,421		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>IOWA</b>				
<b>AMES</b>				
<b>IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY      ZIP CODE 50010</b>				
ANGELICI, ROBERT J.	METAL COMPLEX CATALYSIS OF BIOLOGICAL REACTIONS.	MCHB	5R01 GM12626-11	34,533
APPLEQUIST, JON B.	THEORY OF MOLECULAR OPTICAL PROPERTIES.	BBCA	2R01 GM13684-09	30,161
APPLEQUIST, JON B.	CONFORMATIONAL INDUCTION IN COPOLYPEPTIDES.	BBCA	1R01 GM21585-01	20,561
BARTON, THOMAS J.	SYNTHESIS AND STUDY OF HETEROCYCLOHEPTATRIENES.	MCHB	2R01 GM16689-04	33,296
DAHM, PAUL A.	INSECTICIDE METABOLISM IN ANIMALS AND MICROORGANISMS.	TOX	5R01 ES00205-22	27,033
FOSS, JOHN G.	CIRCULAR DICHROISM OF DYE-BIOPOLYMER COMPLEXES.	BBCA	5R01 GM15540-05	33,192
FRENCH, DEXTER.	MECHANISM OF AMYLASE ACTION.	PC	5R01 GM08822-14	83,946
FROMM, HERBERT J.	STUDY OF BRAIN AND TUMOR-CELL PHOSPHOTRANSFERASES.	BIO	5R01 NS10546-09	33,297
GOLL, DARREL E.	STUDIES ON MYOFIBRILLAR PROTEINS AND MUSCLE MEMBRANES.	BBCB	5R01 AM12654-07	42,294
GRAVES, DONALD J.	ENZYMIC INTERCONVERSION AND REGULATION.	BIO	2R01 GM09587-14	91,404
HARRIS, DELBERT L.	CULTIVATION OF TREPONEMES AND IMMUNITY TO SYPHILIS.	BM	5R01 AI12129-02	43,632
HEINTZ, ROGER L.	PEPTIDE BOND FORMATION AND HEMOGLOBIN SYNTHESIS.	PC	3R01 HL12549-06S1	6,595
HEINTZ, ROGER L.	PEPTIDE BOND FORMATION AND HEMOGLOBIN SYNTHESIS.	PC	5R01 HL12549-07	36,319
IMSANDE, JOHN	REGULATION OF GENE EXPRESSION.	GEN	5R01 AI11346-03	34,262
KEMPTHORNE, OSCAR	RESEARCH IN MATHEMATICAL AND STATISTICAL GENETICS.	COM	5R01 GM13827-09	78,903
METZLER, DAVID E.	THE ACTION OF B VITAMINS IN ENZYMIC CATALYSIS.	BIO	2R01 AM01549-19	87,587
NORDSKOG, ARNE W.	HISTOCOMPATIBILITY IMMUNE RESPONSE GENES IN CHICKENS.	IMB	1R01 AI12746-01	71,374
PATTEE, PETER A.	GENETICS OF BIOSYNTHESIS IN STAPHYLOCOCCUS AUREUS.	MBC	5R01 AI06647-09	16,385
PEARSON, PHILLIP T.	GENERAL RESEARCH SUPPORT GRANT.	NSS	5S01 RR05565-11	27,311
ROBSON, RICHARD M.	STUDY OF HEART AND SMOOTH-MUSCLE CONTRACTILE PROTEINS.	BBCB	5R01 HL15679-03	37,497
ROBYT, JOHN F.	BIOSYNTHETIC STUDY OF DENTAL PLAQUE POLYSACCHARIDES.	PC	2R01 DE03578-04	52,236
STADLER, JOAN K.	GENETIC ANALYSIS OF HUMAN LYMPHOCYTES IN CULTURE.	GEN	5R01 GM20739-02	28,898
THOMAS, JAMES A.	CONTROL OF GLYCOGEN SYNTHESIS IN HEART.	PC	5R01 HL13630-05	36,325
VERKADE, JOHN G.	ELECTROSTEREOCHEMICAL PROPERTIES OF CYCLIC CARCINOSTATS.	MCHB	5R01 CA13968-03	33,749
WAGNER, WILLIAM C.	EFFECT OF ACTH OR STEROIDS ON GONADAL FUNCTION.	REB	1R01 HD08698-01	55,791
WAGNER, WILLIAM C.	MECHANISM OF FETAL INITIATION AND CONTROL OF PARTURITION.	HED	1R01 HD08829-01	27,604
WARNER, CAROL M.	THE IMMUNE RESPONSE OF ALLOPHENIC MICE.	IMB	5R01 AI11752-02	44,499
YOUNG, DONALD F.	EFFECT OF STENOTIC OBSTRUCTIONS ON FLOW IN ARTERIES.	CVA	2R01 HL11717-07	38,410
YOUNG, JERRY W.	GLUCONEOGENESIS IN RUMINANTS.	MET	2R01 AM10706-07	54,785
ZAFFARANO, DANIEL J.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.	NSS	5S05 RR07034-10	41,857
ZIMMERMANN, WILLIAM J.	IMMUNODIAGNOSIS OF TRICHINIASIS.	TMP	5R01 AI11606-03	25,032
ORGANIZATION TOTAL	31		1,308,768	
<b>GRINNELL</b>				
<b>GRINNELL COLLEGE      ZIP CODE 50112</b>				
BAYS, J PHILIP.	SYNTHESIS AND BIOSYNTHESIS OF CEPHALOTAXINE.	MCHA	5R01 GM20368-03	10,318
ORGANIZATION TOTAL	1		10,318	
<b>IOWA CITY</b>				
<b>UNIVERSITY OF IOWA      ZIP CODE 52242</b>				
ABBOUD, FRANCOIS M.	REGULATION OF THE CIRCULATION IN PATHOLOGICAL STATES.	HEP	5P01 HL14388-04	907,308
ABRAMSON, MAXWELL	PATHOGENESIS AND BONE RESORPTION IN AURAL CHOLESTEATOMA.	CMS	5R01 NS10608-03	64,449
ARNONE, ARTHUR	X-RAY STUDIES OF HEMOGLOBIN AND REGULATORY ENZYMES.	BBCB	5R01 AM17563-02	36,467
BAKER, ROBERT G.	EYE MOVEMENT: PHYSIOLOGICAL ORGANIZATION.	VISB	5R01 EY01074-03	20,770
BEAMS, H W.	EFFECTS OF ULTRACENTRIFUGATION ON BACTERIA.	MBY	1R01 GM22171-01	20,982
BENTON, ARTHUR L.	PERFORMANCE TESTS IN CEREBRAL DISEASE.	DBR	5R01 NS00616-21	18,947
BHATTNAGAR, RANBIR K.	EFFECTS OF DRUGS ON NEUROCHEMICAL MATURATION OF BRAIN.	PHRA	1R01 NS12121-01	48,067
BLAKLEY, RAYMOND L.	ALLOSTERIC REGULATION OF MONOMERIC ENZYMES.	BBCA	5R01 CA11165-07	51,139
BLAKLEY, RAYMOND L.	STRUCTURAL STUDIES ON DIHYDROFOLATE REDUCTASE.	BIO	5R01 CA13840-03	74,427
BLAKLEY, RAYMOND L.	ANTIFOLATES IN LEUKEMIA AND GRAFT-VERSUS-HOST DISEASE.	ET	5R01 CA14230-03	52,154
BLAKLEY, RAYMOND L.	INHIBITORS OF HUMAN RIBONUCLEOTIDE REDUCTASE.	BIO	1R01 CA16254-01A1	13,804
BUTLER, JOHN E.	BAMP TUMOR ANTIGEN: DISTRIBUTION AND IMMUNOCHEMISTRY.	PTHB	1R01 CA16932-01	39,215
CANNON, JOSEPH G.	STUDY OF DOPAMINERGIC COMPOUNDS RELATED TO APOMORPHINE.	MCHA	5R01 NS04349-13	48,254

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>IOWA—Continued</b>				
CAPLAN, RICHARD M .....	CLINICAL CANCER EDUCATION PROGRAM .....	CEC	1R25 CA18017-01	209,902
CHALKLEY, ROGER .....	STRUCTURE AND FUNCTION OF CHROMOSOMAL NUCLEOHISTONE .....	BBCA	5R01 CA10871-08	63,735
CHALKLEY, ROGER .....	ORGANIZATION OF DNA AND HISTONE IN TUMOR CELL CHROMATIN .....	BBCA	1R01 CA17224-01	27,167
CHRISTENSEN, JAMES .....	STUDIES OF THE SMALL INTESTINAL SLOW WAVE .....	SGYB	2R01 AM08901-10	90,912
CHRISTENSEN, JAMES .....	REGULATION OF THE LOWER ESOPHAGEAL SPHINCTER .....	GMA	5R01 AM11242-09	28,850
CONNOR, WILLIAM E .....	LIPIDS, ATHEROSCLEROSIS AND THROMBOSIS .....	SRC	5P17 HL14230-05	807,611
CONWAY, THOMAS W .....	PROTEIN SYNTHESIS IN T-4 BACTERIOPHAGE-INFECTED CELLS .....	PC	5R01 AI11301-03	23,455
CONWAY, THOMAS W .....	POLYRIBOSOMES IN HUMAN DYSTROPHIC MUSCLE .....	PC	5R01 NS09283-06	72,678
COOKE, ALLAN R .....	MECHANISMS REGULATING GASTRIC EMPTYING AND MOTILITY .....	GMA	2R01 AM15886-04	41,022
DAVIS, LEODIS .....	SERINE AND THREONINE METABOLISM .....	BIO	5R01 AM16950-02	35,194
DE GOWIN, RICHARD L .....	EFFECTS OF RADIATION ON REPLICATING ENDOTHELIAL CELLS .....	RAD	5R01 CA15594-02	54,404
DE GOWIN, RICHARD L .....	CANCER THERAPY AND THE HEMOPOIETIC MICROENVIRONMENT .....	RAD	1R01 CA18102-01	46,224
DI BONA, GERALD F .....	NEUROGENIC CONTROL OF RENAL SODIUM HANDLING .....	GMB	2R01 AM15843-04	56,794
DIANA, JOHN N .....	CAPILLARY PERMEABILITY IN HEART FAILURE AND SHOCK .....	CVB	1R01 HL16697-01	34,366
DONELSON, JOHN E .....	DNA SEQUENCE AT REPLICATION ORIGINS OF PHIX174 AND M13 .....	GEN	1R01 GM21696-01	62,172
DONTA, SAM T .....	CHOLERA TOXIN AND ADRENAL CELLS IN TISSUE CULTURE .....	BM	2R22 AI11416-03	56,988
ECKBERG, DWAIN L .....	BARORECEPTOR REFLEX MECHANISMS IN MAN .....	CVA	1R01 HL18083-01	37,768
ECKSTEIN, JOHN W .....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER .....	CLR	5M01 RR00059-14	662,390
ECKSTEIN, JOHN W .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05372-14	255,345
FARBER, JAY P .....	DEVELOPMENT OF THE HERING-BREUER REFLEXES .....	PHY	5R01 HL15311-03	23,237
FELDBUSH, THOMAS L .....	ANTIGEN MODULATION OF IMMUNOLOGIC MEMORY .....	ALY	5R01 AI11041-03	25,243
FILER, LLOYD J, JR .....	GROWTH PATTERNS AND BODY COMPOSITION .....	NTN	5R01 HD01784-10	82,731
FITZ, ANNETTE E .....	ANGIOTENSIN I AND CONVERTING ENZYME IN HYPERTENSION .....	CVB	2R01 HL12684-07	69,116
FLATT, ADRIAN E .....	INFLUENCE OF WRIST PATHOMECHANICS ON HAND FUNCTION .....	AFY	2R01 AM14659-04	93,820
FOMON, SAMUEL J .....	GROWTH AND NUTRITION OF NORMAL INFANTS .....	HDGD	3P01 HD07578-01A1S1	26,958
FRANKEL, JOSEPH .....	MUTATIONAL STUDY OF CILIATE DEVELOPMENT .....	CBY	5R01 HD08485-02	49,998
GARDNER, ROBERT S .....	MECHANISMS OF THYROID HORMONE ACTION .....	END	5R01 AM17447-02	41,507
GEBHART, GERALD F .....	NEUROPHYSIOLOGY/PHARMACOLOGY OF CENTRAL NOCICEPTORS .....	SSS	1R01 GM22026-01	36,861
GRANNER, DARYL K .....	CONTROL MECHANISMS IN CULTURED MAMMALIAN CELLS .....	MBY	5R01 CA12191-06	46,803
GRIGSBY, WILLIAM R .....	ACQUIRED PELLICLE AS A COVALENT BINDING SITE .....	DEN	1R23 DE04140-01	12,203
GUSSIN, GARY N .....	REX, A LAMBDA GENE NOT SUBJECT TO CI REPRESSION .....	GEN	5R01 AI10019-05	38,092
HALMI, NICHOLAS S .....	INVESTIGATION OF THE THYROID AND PITUITARY GLANDS .....	END	2R01 AM02463-17	52,359
HAYREH, SOHAN S .....	OCULAR VASCULAR OCCLUSIVE DISORDERS - CLINICAL STUDY .....	VISA	1R01 EY01151-01A2	79,376
HAYREH, SOHAN S .....	OCULAR VASCULAR OCCLUSIVE DISORDERS .....	VISA	1R01 EY01576-01	100,707
HEISTAD, DONALD D .....	STUDY OF THE CHEMORECEPTOR REFLEX .....	CVA	5R01 HL16066-02	43,832
HENN, FRITZ A .....	UPTAKE OF NEUROTRANSMITTERS AND IONS BY GLIA .....	NEUB	1R01 NS11904-01	61,904
HERMSMEYER, RALPH K .....	MEMBRANE ELECTRICAL PROPERTIES OF VASCULAR MUSCLE .....	CVA	5R01 HL16328-03	36,159
HILLMAN, DEAN E .....	CIRCUITRY MODIFICATIONS & MATERNAL PROTEIN RESTRICTION .....	HDMR	1R01 HD08843-01	172,654
HOGENKAMP, HENRICUS P .....	STRUCTURE AND REACTIONS OF THE COBAMIDE COENZYMES .....	BIO	3R01 GM20307-10S1	11,369
HUBEL, KENNETH A .....	AUTONOMIC NEURAL CONTROL OF INTESTINAL CONTRACTILITY .....	GMA	5R01 AM16488-03	43,180
JOHNSON, WILLIAM .....	RIBOSOMAL VACCINES .....	BM	2R01 AI10449-04	25,792
JOHNSTON, RICHARD C .....	STUDY OF BIOMECHANICS OF HIP DISEASE .....	SGYB	5R01 AM14486-05	92,193
JOSEPH, HYMAN .....	DYNAMIC MODEL OF CHILD SPACING AND DESIRED FAMILY SIZE .....	POP	1R01 HD08718-01	30,882
KATER, STANLEY B .....	NEURAL CONTROL OF DISCRETE BEHAVIORAL PROCESSES .....	PHY	5R01 NS09696-05	45,868
KENT, THOMAS H .....	THE ROLE OF BACTERIA IN INTESTINAL DISEASE .....	BM	5R01 AI07587-09	35,454
LATA, GENE F .....	MOLECULAR INTERACTIONS OF STEROID HORMONES .....	END	1R01 AM17867-01	22,717
LLINAS, RODOLFO R .....	NEUROBIOLOGY OF CEREBELLAR PHYLOGENY AND ONTOGENY .....	SSS	5R01 NS09916-04	222,335
LONG, JOHN P .....	STRUCTURE ACTIVITY STUDIES OF PHARMACOLOGIC AGENTS .....	PTR	1P01 GM22365-01	222,386
LONG, JOHN P .....	STRUCTURE-ACTIVITY RELATIONSHIPS OF AUTONOMIC AGENTS .....	PHRA	2R01 NS01396-18	39,972
LONG, JOHN P .....	STUDIES ON AUTONOMIC TRANSMISSION .....	PHRA	2R01 NS04431-13	31,520
LORKOVIC, HRVOJE R .....	ANALYSIS OF CHANGES IN MUSCLES CAUSED BY DENERVATION .....	NEUB	5R01 NS10833-02	24,567
LUBAROFF, DAVID M .....	IMMUNOLOGIC ASPECTS OF PROSTATIC CANCER .....	SRC	1R26 CA18014-01	32,077
MACA, RICHARD D .....	CELLULAR SIALOGLYCOPROTEINS AND ANTICANCER DRUGS .....	ET	1R01 CA17870-01	35,560
MACKENZIE, IAN C .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05313-14	123,312
MARK, ALLYN L .....	ROLE OF VENTRICULAR BARORECEPTORS IN CIRCULATORY CONTROL .....	CVA	5R01 HL16149-02	52,676
MARKOVETZ, ALLEN J .....	MICROBIAL AND INSECT METABOLISM OF ALIPHATIC COMPOUNDS .....	MBG	5R01 GM19809-03	31,767
MC CABE, BRIAN F .....	SURGICAL ANATOMY OF THE EAR AND TEMPORAL BONE .....	CMS	2R01 NS03855-13	111,183
MC CABE, BRIAN F .....	CENTRAL MECHANISMS IN THE VESTIBULAR APPARATUS .....	CMS	5R01 NS06785-09	90,101
MENNINGER, JOHN R .....	CONTROL AND MECHANISM OF PROTEIN-CHAIN TERMINATION .....	PC	5R01 GM20626-03	50,819
MOLL, KENNETH L .....	CINEFLUOROGRAPHIC STUDIES OF SPEECH ARTICULATION .....	CMS	5R01 NS07555-08	49,213

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>IOWA—Continued</b>				
MONTGOMERY, REX.....	STRUCTURES OF CARBOHYDRATE PROSTHETIC GROUPS.....	PC	3R01 GM14013-06S1	9,691
MORRIS, HUGHLETT L.....	DIAGNOSTIC AND PROGNOSTIC TECHNIQUES IN CLEFT PALATE.....	SSS	5P01 DE00853-18	394,308
MURPHEY, RODNEY K.....	EFFECT OF DEPRIVATION ON GROWTH OF IDENTIFIED NEURONS.....	PHY	5R01 NS10825-02	34,243
NEWLON, CAROL S.....	DNA REPLICATION IN THE YEAST, SACCHAROMYCES CEREVISIAE.....	GEN	1R01 GM21510-01	48,137
OAKS, JOHN A.....	FUNCTIONAL MORPHOLOGY OF PARASITIC HELMINTH SURFACES.....	TMP	5R01 AI12045-02	26,744
OSBORNE, JAMES W.....	CONTROL OF CELL PROLIFERATION IN THE INTESTINE.....	RAD	3R01 AM15758-03S1	13,223
PIETRZYK, DONALD J.....	SEPARATION AND DETERMINATION OF CARCINOGENS.....	MCHB	1R01 CA18555-01	41,939
PONSETI, IGNACIO V.....	PROTEOGLYCANS AND COLLAGEN IN SKELETAL GROWTH DISORDERS.....	GMB	5R01 AM00149-23	84,188
RANDLES, RONALD H.....	ADAPTIVE DISCRIMINANT ANALYSIS FOR MEDICAL DECISIONS.....	COM	1R01 GM22271-01	77,631
ROSAZZA, JOHN P.....	MICROBIAL TRANSFORMATIONS - NATURAL ANTITUMOR AGENTS.....	MCHA	5R01 CA13786-02	25,057
ROSKOSKI, ROBERT, JR.....	NEUROTRANSMITTER BIOSYNTHESIS.....	NEUB	5R01 NS11310-02	32,598
SABISTON, CHARLES B, JR.....	EVALUATION OF CLINICAL DENTAL ANAEROBIC BACTERIOLOGY.....	DEN	2R01 DE03662-04	30,826
SAHS, ADOLPH L.....	SUPPORT FOR STROKE CENTER.....	NSPA	5P17 NS11091-03	75,339
SCHEDL, HAROLD P.....	INTESTINAL ABSORPTION IN MALABSORPTION SYNDROMES.....	GMA	5R01 AM02534-17	83,811
SCHEDL, HAROLD P.....	ACTION AND CONTROL OF DUODENAL CALCIUM-BINDING PROTEIN.....	GMA	5R01 AM16841-02	50,947
SCHMIDT, JOSEPH D.....	STUDY OF PRIMARY NEOPLASMS OF THE URINARY BLADDER.....	BP	5R26 CA15933-02	42,416
SHERMAN, BARRY M.....	ANOVAULTION AND THE EPIDEMIOLOGY OF BREAST CANCER.....	EDC	5R01 CA15104-02	129,239
SHERMAN, BARRY M.....	CELL BIOLOGY OF HUMAN BREAST CANCER AND MAMMARY GLAND.....	CAK	1P01 CA17649-01	210,321
SIX, ERICH W.....	GENETIC STUDIES OF PHAGE-PROPHAGE INTERACTIONS.....	VR	5R01 AI04043-14	41,568
SMITH, FRED G, JR.....	RENAL FUNCTION IN THE MATURING FETUS.....	GMB	5R01 HD08953-02	75,215
SOLURSH, MICHAEL.....	CONTROL OF EXTRACELLULAR MATRIX SYNTHESIS.....	MBY	5R01 HD05505-04	37,617
SPECTOR, ARTHUR A.....	LIPID DEPOSITION IN MAMMALIAN CELLS.....	MET	5R01 HL14781-04	41,526
SPIESTERSBACH, DUANE C.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07035-10	35,260
STEINMETZ, PHILIP R.....	EPITHELIAL ORGANIZATION OF URINARY ACIDIFICATION.....	PHY	5R01 AM17568-02	49,652
STELLWAGEN, EARLE C.....	STRUCTURE-FUNCTION STUDIES OF CYTOCHROME C.....	BBCA	5R01 GM13215-10	56,731
STELLWAGEN, EARLE C.....	AFFINITY CHROMATOGRAPHY FOR THE DINUCLEOTIDE FOLD.....	BBCA	1R01 GM22109-01	50,845
SURZYCKI, STEFAN J.....	ADENOVIRUS GENE EXPRESSION IN VITRO AND IN VIVO.....	GEN	5R01 AI11648-02	18,422
SURZYCKI, STEFAN J.....	TRANSCRIPTION OF CHLOROPLAST DNA OF C. REINHARDI.....	GEN	3R01 GM21204-01S1	2,715
SWENSON, CHARLES A.....	MYOSIN ATPASE MECHANISM AND ENERGY TRANSDUCTION.....	BBCB	5R01 AM16736-02	23,220
TEPHLY, THOMAS R.....	BIOCHEMICAL TOXICOLOGY AND PHARMACOLOGY.....	PTR	5P11 GM12675-11	842,501
TEPHLY, THOMAS R.....	STUDIES ON METHANOL POISONING.....	MET	5R01 GM19420-04	32,907
THOMPSON, JOHN S.....	IMMUNOSUPPRESSIVE FACTORS IN HEPATOMA SERA & CORD BLOOD.....	IMB	5R01 CA15084-02	59,467
THOMPSON, ROBERT G.....	HORMONE INTEGRATED CONCENTRATIONS IN DIABETES.....	END	1R01 AM18439-01	39,870
VAN ALLEN, MAURICE W.....	NEUROSENSORY RESEARCH PROGRAM.....	NSPB	5P01 NS03354-14	355,612
VAN ALLEN, MAURICE W.....	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE.....	SSS	1R01 NS12496-01	168,391
VAN ORDEN, DIANNA E.....	BIOGENIC AMINES AND PROSTAGLANDINS IN UTERINE FUNCTION.....	REB	2R01 HD06380-04	91,854
WALTMAN, PAUL E.....	SIMULATING THE DEVELOPMENT OF MEMORY AND PLASMA CELLS.....	COM	1R01 CA18639-01	45,230
WEI, STEPHEN H.....	CLINICAL AND CHEMICAL CHARACTERISTICS OF SN3F3P04.....	DEN	5R01 DE03532-02	23,631
WILLIAMS, TERENCE H.....	MORPHOLOGY OF COLLATERAL NERVE SPROUTING.....	NEUB	5R01 NS11650-02	45,137
YOUNOSZAI, M KABIR.....	INTESTINAL FUNCTION DURING INFANCY AND CHILDHOOD.....	GMA	1R01 HD08227-01	33,391
ORGANIZATION TOTAL	113	10,162,883		

## MOUNT VERNON

<b>CORNELL COLLEGE</b>	<b>ZIP CODE 52314</b>			
JORDAN, TRUMAN H.....	CLINICAL AND CHEMICAL CHARACTERISTICS OF SN3F3P04.....	DEN	5R01 DE03531-02	10,038
JORDAN, TRUMAN H.....	SNF2 REACTION WITH APATITE AND OTHER CA/P04 SYSTEMS.....	DEN	1R01 DE04192-01	11,819
ORGANIZATION TOTAL	2	21,857		
STATE TOTAL	147	11,503,826		

## KANSAS

### KANSAS CITY

<b>UNIVERSITY OF KANSAS</b>	<b>ZIP CODE 66103</b>			
AZARNOFF, DANIEL L.....	FACTORS AFFECTING THE RESPONSES TO DRUGS.....	PTR	5P11 GM15956-08	497,134
BARTH, ROLF F.....	STUDIES ON HUMAN TUMOR-SPECIFIC IMMUNITY.....	IMB	5R01 CA13190-03	48,565



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>KANSAS—Continued</b>				
BARTH, ROLF F.....	ANTIGENIC MODIFICATION OF LEUKOCYTES TAGGED WITH DNP.....	IMB	1R01 CA16503-01	52,333
BELMONT, JOHN M.....	DEVELOPMENT OF CHILDREN'S SELF-CONTROLLED COGNITION.....	DBR	1R01 HD08911-01	41,367
BOLINGER, ROBERT E.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00828-02	345,336
BUNAG, RUBEN D.....	HYPERTENSION PRODUCED BY SYMPATHETIC DYSFUNCTION.....	CVB	5R01 HL14560-04	35,683
BUTTERFIELD, EARL C.....	INFANT AUDITORY PERCEPTION AND LEARNING.....	CMS	5R01 HD04756-05	67,586
COHN, DAVID V.....	PARATHYROID AND PROPARATHYROID HORMONE.....	END	1R01 AM18323-01	69,209
CUPPAGE, FRANCIS E.....	REGENERATION AND BASIC RESPONSES OF THE NEPHRON.....	PTHA	5R01 AM12064-09	21,883
DICK, ARTHUR R.....	BLOOD FLOW AND ACID-BASE METABOLISM IN CEREBRAL EDEMA.....	NEUA	5R01 NS09514-03	48,721
DICKMANN, ZEEV.....	ASPECTS OF STEROIDOGENESIS IN PREIMPLANTATION EMBRYOS.....	REB	1R01 HD08644-01A1	43,913
DIEDERICH, DENNIS A.....	FACTORS INFLUENCING SICKLING PHENOMENON.....	HEM	5R01 HL15228-03	23,666
EBNER, KURT E.....	MECHANISM OF LACTOSE SYNTHESIZING ENZYMES.....	BIO	1R01 AM18257-01	45,503
EBNER, KURT E.....	FUNCTION AND INTERACTIONS OF MAMMARY CARCINOMA CELLS.....	MBY	1R01 CA17478-01	18,587
FISHER, HARVEY F.....	STRUCTURE AND MECHANISMS OF ACTION OF ENZYMES.....	PC	5R01 GM15188-09	56,309
FRENKEL, JACOB K.....	TRANSMISSION AND PREVENTION OF TOXOPLASMOSIS.....	TMP	5R01 AI07489-09	64,268
FRENKEL, JACOB K.....	EFFECTS OF CANCER AND THERAPY ON INFECTION AND IMMUNITY.....	PTHB	5R01 CA13822-03	59,496
GRANTHAM, JARED J.....	MECHANISMS OF TRANSPORT IN ISOLATED KIDNEY TUBULES.....	PHY	5R01 AM13476-06	43,873
GREENWALD, GILBERT S.....	FOLLICULAR AND LUTEAL REGULATION IN THE MAMMALIAN OVARY.....	REB	5R01 HD00596-13	42,640
GRISOLIA, SANTIAGO.....	METABOLISM OF N-ACYL AND N-CARBAMYL AMINO ACIDS.....	BIO	5R01 AM01855-21	67,695
HERMRECK, ARLO S.....	THE STUDY OF ACUTE RENAL FAILURE.....	CVB	5R01 HL14362-04	27,299
HOOGSTRATEN, BARTH.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA12644-04	203,085
HOOGSTRATEN, BARTH.....	SOUTHWEST ONCOLOGY GROUP - OPERATIONS OFFICE.....	CCI	1R10 CA16943-01	151,275
HUDSON, BILLY G.....	STUDIES ON THE STRUCTURE OF BASEMENT MEMBRANES.....	PC	7R01 AM18381-01	11,612
HUDSON, BILLY G.....	STUDIES ON THE STRUCTURE OF BASEMENT MEMBRANES.....	PC	5R01 AM18381-02	31,063
HUMPHREY, LOREN J.....	STUDY OF CANCER OF THE BREAST.....	SGYA	5R01 CA12869-05	65,141
JEWELL, WILLIAM R.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17959-01	75,348
JOHNSON, DONALD C.....	ENDOCRINOLOGY OF EXPERIMENTAL OVARIAN TUMORS.....	REB	5R01 CA15622-02	41,395
KLAASSEN, CURTIS D.....	BILIARY EXCRETION IN NEONATAL TOXICOLOGY.....	TOX	5R01 AM14513-05	33,701
KLAASSEN, CURTIS D.....	CADMIUM TOXICOLOGY.....	TOX	1R01 ES01142-01	57,851
LANSKY, SHIRLEY B.....	CHILDHOOD CANCER. PSYCHOSOCIAL REHABILITATION.....	CCG	1R18 CA17806-01	112,894
LOWMAN, JAMES T.....	SUPPORT FOR CANCER RESEARCH CENTER.....	CAP	5P02 CA15080-02	117,423
MAGUIRE, M HELEN.....	PURINE NUCLEOTIDE METABOLISM IN HEMOCHORIAL PLACENTAS.....	HED	1R01 HD08653-01A1	77,101
MELNYKOVYCH, GEORGE.....	STEROID INDUCED CHANGES IN CULTURED MALIGNANT CELLS.....	PTHB	2R01 CA08315-11	47,721
MILLS, RUSSELL C.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05373-14	172,879
NELSON, STANLEY R.....	HEMODYNAMIC EFFECTS OF BRAIN EDEMA.....	CVB	1R01 HL16480-01A1	24,975
NELSON, STANLEY R.....	ENERGY REQUIREMENTS FOR NEURONAL ACTIVITY.....	EXP	5R01 NS11353-02	19,875
PIERCE, GEORGE E.....	IN VITRO MONITORING OF HUMAN RENAL ALLOGRAFT REJECTION.....	IMB	1R01 AI13186-01	49,065
POISNER, ALAN M.....	THE CONTROL OF RENIN IN THE ADRENAL MEDULLA.....	GMB	5R01 HL16102-02	15,865
RAWITCH, ALLEN B.....	THE ROLE OF THYROGLOBULIN IN THYROXINE BIOSYNTHESIS.....	END	7R01 AM18896-01	20,072
REISSMANN, KURT R.....	STUDIES ON ERYTHROPOIETIN.....	HEM	5R01 AM07239-12	26,948
REISSMANN, KURT R.....	SELECTIVE MYELOTOXIC EFFECT OF ANTITUMOR DRUGS.....	HEM	5R01 CA08736-10	23,076
SCHLOERB, PAUL R.....	KINETICS OF WATER AND ELECTROLYTES IN SHOCK.....	SGYA	2R01 HL02363-17	67,887
SULLIVAN, LAWRENCE P.....	STUDY OF FACTORS AFFECTING RENAL POTASSIUM TRANSPORT.....	GMB	2R01 AM15883-04	32,303
SUZUKI, TSUNEO.....	STRUCTURAL STUDIES OF IMMUNOGLOBULIN M.....	PC	5R01 AI10551-04	31,054
SVOBODA, DONALD J.....	HEPATOCELLULAR RESPONSES TO DRUGS AND CARCINOGENS.....	PTHA	5R01 CA05680-14	39,452
TARR, CHARLES M.....	VOLTAGE CLAMP OF CARDIAC MUSCLE.....	PHY	5R01 HL12426-07	12,474
UYEKI, EDWIN M.....	STUDY OF TOXICITY OF ANTITUMOR DRUGS.....	ET	5R01 CA14386-02	41,131
UYEKI, EDWIN M.....	TOXICITY OF BENZENE AND RELATED COMPOUNDS.....	TOX	1R01 ES01004-01	33,758
WELLING, LARRY W.....	ANALYTIC FORMULATION OF TRANSPORT IN SINGLE NEPHRONS.....	GMB	5R01 AM16968-02	35,603
WONG, KIN-PING.....	ACQUISITION OF NATIVE CONFORMATION OF PROTEIN.....	BBCA	7R01 HL18905-01	25,493
WOOD, JACKIE D.....	STUDY OF CONGENITAL MEGACOLON OF MICE.....	GMA	5R01 AM16813-02	19,226
ORGANIZATION TOTAL	52	3,437,812		

## LAWRENCE

### UNIVERSITY OF KANSAS ZIP CODE 66045

ADAMS, RALPH N.....	ELECTROCHEMISTRY-EPR OF BIOLOGICAL ELECTRON TRANSFER.....	MCHB	5R01 NS08740-09	28,313
AKAGI, JAMES M.....	STUDIES ON SULFATE REDUCING BACTERIA.....	MBG	5R01 AI04672-12	26,539
ALEXANDER, JOHN T.....	THE MOSCOW PLAGUE OF 1771: A SOCIAL HISTORY.....	SSS	1R01 LM02359-01	10,373
ARGERSINGER, WILLIAM J, JR.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07037-10	67,389

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>KANSAS—Continued</b>				
BORCHARDT, RONALD T.....	STEREOCHEMICAL STUDY OF CATECHOLAMINE RECEPTOR SITES.....	MCHB	5R01 NS09399-11	50,276
BORCHARDT, RONALD T.....	STRUCTURAL ANALOGS OF S-ADENOSYLMETHIONINE.....	MCHA	5R01 NS10198-03	34,550
BORCHARDT, RONALD T.....	INHIBITION OF CATECHOL-O-METHYLTRANSFERASE.....	PHRA	5R01 NS10918-02	32,848
BULLER, CLARENCE S.....	VIRUS INDUCED CHANGES IN MEMBRANE FUNCTION.....	MBG	1R01 AI12820-01	35,345
BURTON, PAUL R.....	EM STUDIES OF MICROTUBULAR ELEMENTS AND A RICKETTSIA.....	CBY	5R01 AI06448-11	28,308
CARRIER, JOSEPH K, JR.....	USE OF NONSPEECH RESPONSES TO TEACH COMMUNICATION.....	DBR	1R01 HD07339-01A1	45,335
COOKE, PETER H.....	CONTRACTILE MECHANISM OF VERTEBRATE SMOOTH MUSCLE.....	MBY	5R01 GM19627-02	30,869
CRAWFORD, MICHAEL, II.....	DENTAL EVOLUTION OF TRANSPLANTED MEXICAN POPULATIONS.....	DEN	1R01 DE04115-01	30,986
FAIMAN, MORRIS D.....	PROTECTION FROM OXYGEN TOXICITY.....	PHRA	3R01 NS07797-04A1S1	7,680
FULTON, ROBERT T.....	A SPECIAL CLINICAL CENTER FOR COMMUNICATIONS RESEARCH.....	CDR	5P01 NS11601-02	227,971
GIVENS, ROBERT S.....	STUDIES ON MUSCARINIC NEUROTRANSMITTER ANALOGS.....	MCHA	1R01 NS12271-01	31,119
GRUNEWALD, GARY L.....	STEREOSELECTIVITY OF ANTICONVULSANT ACTION.....	MCHB	1R01 NS12429-01	25,282
HALL, R VANCE.....	THE DEVELOPMENT OF CULTURALLY DEPRIVED CHILDREN.....	HDMM	5P01 HD03144-08	243,887
HANZLIK, ROBERT P.....	THE ROLE OF EPOXIDES IN METABOLISM AND DRUG TOXICITY.....	SSS	1R01 GM21784-01	46,257
HIMES, RICHARD H.....	FORMYL-TETRAHYDROFOLATE SYNTHETASE.....	BIO	5R01 AM07140-11	30,273
HOUSTON, L LUGENE.....	A MULTIZENYME COMPLEX IN THE HISTIDINE PATH.....	BIO	3R01 GM19992-04A1S1	9,478
HUYSER, EARL S.....	FREE-RADICAL BIOCHEMICAL OXIDATIONS.....	MCHB	5R01 GM18191-11	28,492
LEE, BYUNGKOOK.....	CRYSTALLOGRAPHIC STUDIES ON THE ENZYME L-ASPARAGINASE.....	BBCB	5R01 CA16237-02	28,985
LINDENBAUM, SIEGFRIED.....	THERMODYNAMIC STUDIES OF BILE ACID MICELLAR SOLUTIONS.....	BBCA	5R01 AM18084-02	20,807
MC CHESNEY, JAMES D.....	ANTIMITOTIC ACTION OF PODOPHYLLUMS AND THEIR ANALOGS.....	MCHB	5R01 CA13996-03	28,603
MERTES, MATHIAS P.....	COFACTOR INHIBITION OF THYMIDYLATE SYNTHETASE.....	MCHA	2R01 CA07522-11	62,910
MERTES, MATHIAS P.....	CANCER CHEMOTHERAPY: CONTROL OF GENE EXPRESSION.....	MCHA	1R01 CA16423-01A1	33,579
MERTES, MATHIAS P.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05606-09	31,307
MITSCHER, LESTER A.....	NEW ANTIBIOTICS - ISOLATION, SYNTHESIS AND EVALUATION.....	MCHB	7R01 AI13155-01	49,601
PITMAN, IAN H.....	CYTOTOXIC AND MUTAGENIC MECHANISMS.....	TOX	2R01 GM18348-04A1	28,495
ROBERTSON, DONALD C.....	PATHOGENICITY OF ENTEROTOXIGENIC ESCHERICHIA COLI.....	BM	1R22 AI12357-01	36,106
RUTLEDGE, CHARLES O.....	DRUGS ON RELEASE OF BIOGENIC AMINES AND BEHAVIOR.....	PHRA	7R01 NS12760-01	12,994
RYTTING, J HOWARD.....	EFFECT OF TEMPERATURE AND PRESSURE ON BLOOD PLATELETS.....	HEM	5R01 HL16951-02	18,463
SCHIEFFELBUSCH, RICHARD L.....	STUDY OF MENTAL RETARDATION.....	HDMM	5P01 HD02528-09	475,531
SCHOWEN, RICHARD L.....	ENZYME-EFFECTOR DESIGN: PROTON INVENTORIES.....	MCHA	5R01 GM20198-02	44,811
SCHOWEN, RICHARD L.....	MODELS FOR BIOLOGICAL TRANSMETHYLATION.....	MCHA	1R01 GM20199-01	39,271
SHERIDAN, RICHARD B.....	MORTALITY AND THE MEDICAL TREATMENT OF SLAVES.....	HLS	5R01 LM01539-03	10,868
SPRADLIN, JOSEPH E.....	STUDY OF COMMUNICATION DISORDERS OF RETARDED CHILDREN.....	HDMM	5P01 HD00870-12	360,531
STANNARD, JERRY.....	HISTORY OF MEDICINAL USES OF VEGETABLE GUMS.....	SSS	5R01 LM02054-02	7,557
STELLA, VALENTINO J.....	THIAMINE PRO-DRUGS IN ALCOHOLISM AND ENCEPHALOPATHIES.....	PHRA	1R01 NS11998-01A1	33,513
STERNSON, LARRY A.....	OXIMES IN THE STUDY OF AMINE MEDIATED CARCINOGENESIS.....	ET	7R01 CA18615-01	17,596
STONE, HENRY O, JR.....	CONTROL MECHANISMS IN PARAMYXOVIRUS REPLICATION.....	VR	5R01 AI11127-03	30,797
WEAVER, ROBERT F.....	TRANSCRIPTION CONTROL IN NUCLEAR POLYHEDROSIS VIRUS.....	BIO	1R01 GM22127-01	47,522
WEIR, JOHN A.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	GEN	5P06 RR00343-09	16,409
YOCHIM, JEROME M.....	ENDOMETRIAL PREPARATION FOR IMPLANTATION.....	REB	5R01 HD05090-05	14,943
ZIMBRICK, JOHN D.....	EPR STUDIES ON DETECTION AND TREATMENT OF CANCER.....	RAD	1R01 CA14335-01A1	94,887
ZIMBRICK, JOHN D.....	STUDIES ON DNA BASE DAMAGE INDUCED BY GAMMA RADIATION.....	RAD	2R01 GM18927-04	46,117
ORGANIZATION TOTAL	46	2,664,773		

## MANHATTAN

### KANSAS STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE ZIP CODE 66506

BODE, VERNON C.....	BIOCHEMICAL STUDIES ON THE REGULATION OF DNA FUNCTION.....	VR	5R01 GM18182-04	45,559
BUCK, CLAYTON A.....	MEMBRANE CHANGES CAUSED BY TUMOR VIRUS TRANSFORMATION.....	PC	2R01 CA12426-04	30,029
BURLINGHAM, BYRON T.....	ISOLATION OF MOLLUSCUM CONTAGIOSUM VIRUS.....	VR	5R01 CA15506-03	54,931
CENTER, MELVIN S.....	DNA TUMOR VIRUSES—ENZYMOLGY OF POLYOMA DNA METABOLISM.....	VR	5R01 CA14448-03	36,926
CONRAD, GARY W.....	FIBROBLAST DIFFERENTIATION DURING EYE DEVELOPMENT.....	VISA	2R01 EY00952-04	46,278
CONRAD, GARY W.....	MOLLUSCAN POLAR LOBES: ROLE IN EMBRYONIC DEVELOPMENT.....	CBY	5R01 HD07193-02	18,163
CONSIGLI, RICHARD A.....	STUDIES IN POLYOMA TRANSFORMED CELLS - VIRION PROTEINS.....	VR	2R01 CA07139-12	70,412
COX, DAVID J.....	SELF-ASSOCIATION REACTIONS OF MACROMOLECULES.....	BBCB	1R01 GM22243-01	36,261
CRAIG, JAMES V.....	SOCIAL STRESS, MATURITY, AND FITNESS.....	EXP	2R01 HD06782-03	43,609
DOEZEMA, PHILIP.....	MELANOSOME PROTEINS AND CONTROL BY PIGMENTATION GENES.....	MBY	5R01 CA12468-05	30,501
DOEZEMA, PHILIP.....	MELANOSOME ANTIGENS: ROLE IN AUTOIMMUNITY TO MELANOMA.....	IMB	1R01 CA17247-01	29,823
GRONWALL, RONALD R.....	HEPATIC ORGANIC ANION TRANSPORT MECHANISMS.....	GMA	2R01 AM11384-09	15,812

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>KANSAS—Continued</b>				
HEDGCOth, CHARLIE, JR .....	EFFECT OF VIRUS-INDUCED TRANSFORMATION ON tRNA.....	PC	2R01 CA12741-04	38,246
KRUH, R F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07036-10	31,419
LAMBERT, JACK L.....	ANALYSIS OF CARBON MONOXIDE IN BLOOD.....	MCHB	5R01 ES00788-02	13,751
MANNEY, THOMAS R.....	GENE FUNCTIONS ASSOCIATED WITH THE SEXUAL CYCLE.....	GEN	5R01 GM19175-04	58,557
MARCHIN, GEORGE L.....	VIRAL MODIFICATION OF AN AMINO ACID ACTIVATING ENZYME.....	PC	2R01 AI10858-04	48,194
REECK, GERALD R.....	TUMOR-ENRICHED NONHISTONE CHROMATIN PROTEINS.....	BIO	1R01 CA17782-01	46,474
ROCHE, THOMAS E.....	REGULATION OF LIVER AND BRAIN PYRUVATE DEHYDROGENASE.....	BIO	1R01 AM18320-01	40,120
RODKEY, L SCOTT.....	AUTOREGULATION OF IMMUNE PROCESSES.....	ALY	1R01 AI2389-01A1	35,511
SLESINSKI, RONALD S.....	IMMUNOGLOBULINS IN HYBRIDS AND MUTANTS OF HUMAN CELLS.....	ALY	5R01 AI10959-03	29,876
SMITH, JOSEPH E.....	GLUTATHIONE DEFICIENCY IN RED CELLS.....	HEM	5R01 HL12972-06	31,134
SPEAR, PETER D.....	NEUROPHYSIOLOGICAL CONSEQUENCES OF VISUAL CORTEX DAMAGE.....	VISB	5R01 EY01170-03	25,066
SPOONER, BRIAN S.....	MICROFILAMENTS, MORPHOGENESIS, AND CYTODIFFERENTIATION.....	CBY	2R01 GM19289-04	80,784
WESTFALL, JANE A.....	ELECTRON MICROSCOPY OF NEURONS, AXONS AND SYNAPSES.....	NEUB	2R01 NS10264-03	37,045
ORGANIZATION TOTAL	25		974,481	
<b>TOPEKA</b>				
<b>MENNINGER FOUNDATION      ZIP CODE 66601</b>				
KOVACH, JOSEPH K.....	DEVELOPMENT OF A BEHAVIORAL PHENOTYPE.....	EXP	5R01 HD06770-03	47,048
TAYLOR, JAMES B.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05517-13	15,515
ORGANIZATION TOTAL	2		62,563	
<b>WICHITA</b>				
<b>VETERANS ADMINISTRATION CENTER      ZIP CODE 67218</b>				
MELLINGER, GEORGE T.....	COOPERATIVE UROLOGICAL RESEARCH.....	CCI	1R10 CA16499-01	334,053
ORGANIZATION TOTAL	1		334,053	
<b>WICHITA STATE UNIVERSITY      ZIP CODE 67208</b>				
NISHIMURA, ALLAN M.....	THE EXCITED TRIPLET ELECTRONIC STATE OF FLAVINS.....	BBCA	1R01 GM21770-01	56,378
ORGANIZATION TOTAL	1		56,378	
STATE TOTAL	127		7,530,060	
<b>KENTUCKY</b>				
<b>LEXINGTON</b>				
<b>UNIVERSITY OF KENTUCKY      ZIP CODE 40506</b>				
BAUMAN, DAVID S.....	IMMUNOLOGIC MECHANISM OF PULMONARY CAVITATION.....	PTHA	5R01 HL16327-02	63,355
BOLLUM, FREDERICK J.....	BIOSYNTHETIC POLYDEOXYNUCLEOTIDES.....	PC	5R01 CA08487-10	111,460
BROWN, ALBERT T.....	REGULATION OF CARBOHYDRATE CATABOLISM IN S. MUTANS.....	MBG	7R23 DE04254-01	8,498
BULLOCK, WARD E.....	IN VIVO STUDIES OF DELAYED HYPERSENSITIVITY IN LEPROSY.....	BM	5R22 AI10094-05	61,341
CHAN, SHUNG K.....	ROLE OF ALPHA-1 ANTITRYPSINS IN EMPHYSEMA.....	BBCA	5R01 HL16166-02	43,827
CONTI, SAMUEL F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07114-08	33,542
CRANDALL, MARJORIE A.....	REGULATION OF CELL SURFACE GLYCOPROTEINS.....	MBG	5R01 GM21889-02	33,876
CSAKY, T Z.....	A STUDY OF BIOLOGICAL TRANSPORT OF SUGARS.....	PHY	5R01 AM15734-13	34,414
DIEDRICH, DONALD F.....	PHLORIZIN INHIBITION OF SUGAR TRANSPORT.....	WET	5R01 AM06878-13	41,862
FLESHER, JAMES W.....	METABOLIC CHARACTERISTICS OF CHEMICAL CARCINOGENESIS.....	ET	5R01 CA15270-02	64,552
GETTES, LEONARD S.....	EFFECT OF DRUGS ON PURKINJE AND VENTRICULAR FIBERS.....	CVA	5R01 HL13321-05	61,987
GILLILAN, LOIS A.....	STUDY OF VASCULAR PATTERNS IN CENTRAL NERVOUS SYSTEM.....	PTHA	5R01 HL06276-14	10,188
GOLDENBERG, DAVID M.....	A MODEL FOR COLONIC CANCER-ASSOCIATED ANTIGENS.....	SRC	5R26 CA15799-02	65,053
GOLDENBERG, DAVID M.....	ROLE OF IN VIVO CELL FUSION IN NEOPLASIA.....	PTHB	1R01 CA17198-01	61,299
GOLDENBERG, DAVID M.....	RADIOLOGICAL LOCALIZATION OF HUMAN TUMORS.....	RAD	1R01 CA17742-01	55,979
GORDON, HELMUT A.....	THE NORMAL FLORA.....	GMA	3R01 AM14621-06S1	29,621
GRIFFEN, WARD O.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	1P01 CA16572-01	110,750
HAKIM, RAZIEL S.....	ROLE OF METAPLASIA IN A NONDIVIDING CELL SYSTEM.....	CBY	5R01 HD07908-02	24,907



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>KENTUCKY—Continued</b>				
HAMBURG, JOSEPH .....	ANNUAL REVIEW OF ALLIED HEALTH EDUCATION AND RESEARCH .....	BCM	5R01 LM01927-02	28,804
HURLEY, LAURENCE H. ....	BIOSYNTHESIS AND MODE OF ACTION OF ANTHRAMYCIN .....	MCHA	1R01 CA17047-01	45,119
HUSSAIN, ANWAR A. ....	DELIVERY DEVICE FOR CHLORHEXIDINE IN THE ORAL CAVITY .....	DEN	1R01 DE04194-01	41,060
HUTTON, JOHN J. ....	ENZYME REGULATION IN THE HEMOPOIETIC SYSTEM .....	HEM	5R01 AM16013-04	41,898
JARECKY, ROY K. ....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05374-14	145,846
KOTCHEN, THEODORE A. ....	RENIN KINETICS IN HYPERTENSIVE AND UREMIC PLASMA .....	CVB	5R01 HL15528-02	25,866
LESTER, ROBERT L. ....	THE BIOCHEMISTRY OF INOSITOL PHOSPHOLIPIDS IN FUNGI .....	PC	1R01 AI12299-01	82,225
LUKE, ROBERT G. ....	STUDIES ON RENAL CHLORIDE EXCRETION .....	GMB	5R01 AM13859-05	34,472
MARUYAMA, YOSH. ....	STUDY OF TUMOR RADIOBIOLOGY .....	RAD	5R01 CA13849-03	10,415
MARUYAMA, YOSH. ....	RADIATION THERAPY ONCOLOGY PROGRAM .....	CAP	1P01 CA17786-01	234,503
MATEER, RICHARD S. ....	PHASE EQUILIBRIUM AND SETTING IN DENTAL AMALGAMS .....	DEN	5R01 DE02147-11	29,475
MEEKER, WILLIAM R. JR. ....	COOPERATIVE STUDY OF ONCOLOGY .....	CCI	5R10 CA12283-05	35,651
MEEKER, WILLIAM R. JR. ....	CLINICAL CANCER EDUCATION PROGRAM .....	CEC	1R25 CA18107-01	81,742
MILLER, RALPH E. ....	NEURAL REGULATION OF INSULIN SECRETION RATE .....	MET	5R01 AM17082-02	36,463
MOORHEAD, EDWARD D. ....	DEVELOPMENT OF TRACE GALLIUM ASSAY .....	MCHB	1R01 GM20472-01	32,609
NOBLE, ROBERT C. ....	CLASSIFICATION OF GONOCOCCI AND ANTIGEN ANALYSIS .....	BM	5R01 AI11304-02	23,827
RHODAS, ROBERT E. ....	REGULATION OF OVALBUMIN SYNTHESIS IN CHICK OVIDUCT .....	PC	5R01 GM20818-02	34,304
ROSENTHAL, GERALD A. ....	THE ENZYMOLOGY OF ARGININE AND CANAVANINE BIOSYNTHESIS .....	PC	5R01 AM17322-02	1,000
SABES, WILLIAM R. ....	CLINICAL CANCER EDUCATION PROGRAM (DENTAL) .....	CEC	1R25 CA17992-01	57,325
SCHWERT, GEORGE W. ....	CHARACTERIZATION AND SPECIFICITY OF ENZYME SYSTEMS .....	BIO	5R01 GM06635-15	40,106
SMITH, COY D. ....	EPIDEMIOLOGIC STUDY OF BLASTOMYCOSIS .....	EDC	5R01 AI11790-02	25,613
UTLEY, JOE R. ....	SUBENDOCARDIAL NECROSIS DURING CARDIOPULMONARY BYPASS .....	SGYA	5R01 HL15738-03	57,557
ZECHMAN, FRED W. ....	CONTROL OF VENTILATION IN HEALTH AND DISEASE .....	HEP	1P01 HL16878-01	194,126
ORGANIZATION TOTAL	41	2,256,517		
<b>LOUISVILLE</b>				
<b>UNIVERSITY OF LOUISVILLE      ZIP CODE 40208</b>				
BENSON, ROBERT W. ....	CONTROL OF GENE TRANSCRIPTION IN AGING ANIMALS .....	BIO	5R01 HD07625-02	30,685
BURTON, ROBERT M. ....	A RADIOIMMUNOASSAY FOR HUMAN OVARIAN CANCER .....	PTHB	5R01 CA15256-02	40,199
BURZYNSKI, NORBERT J. ....	CLINICAL CANCER EDUCATION PROGRAM (DENTAL) .....	CEC	1R25 CA18006-01	58,007
CARR, LAURENCE A. ....	BIOCHEMISTRY OF LONG-TERM MEMORY FORMATION .....	PHRA	1R01 NS12129-01	56,023
FONDA, MARGARET L. ....	GABA METABOLISM—A BIOCHEMICAL KEY TO MENTAL AGING .....	BIO	5R01 HD06909-03	30,193
FRIEND, JERRY P. ....	ESTROGEN AND PITUITARY DEVELOPMENT .....	END	1R01 HD08844-01A1	39,438
HOFFMAN, JERALD L. ....	OCCURRENCE AND BIOCHEMICAL EFFECTS OF SELENIUM IN TRNA .....	NTN	5R01 AM16986-03	27,633
HOPE, GEORGE M. ....	COLD LIMITS ON PHOTORECEPTOR VIABILITY AND FUNCTION .....	VISB	1R01 EY01228-01A1	27,725
HORAN, LEO G. ....	EMF PATTERNS DECODED TO HEART GEOMETRY BY DIPOLAR PAIR .....	CVA	5R01 HL16901-02	36,705
HUANG, KEE C. ....	MECHANISM OF RENAL AND INTESTINAL TRANSPORT .....	PHY	5R01 AM02217-16	49,080
KALSOW, CAROLY M. ....	AUTOANTIGENS OF THE GUINEA PIG RETINA AND UVEA .....	VISA	1R23 EY01516-01	9,775
KEEFE, J. RICHARD .....	CYTOLOGY OF RETINAL DIFFERENTIATION .....	VISB	7R01 EY01676-01	54,672
KEENEY, ARTHUR H. ....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05375-14	95,721
LANG, CALVIN A. ....	METALS AND NUCLEIC ACIDS IN MOSQUITO GROWTH AND AGING .....	TMP	5R01 AG00246-11	46,253
LAWWILL, THEODORE .....	STUDY OF CLINICAL ERG AND PHOTOPIC PATTERNED STIMULI .....	VISB	5R01 EY00412-06	32,876
LIU, PINGHUI V. ....	HEMOLYSINS OF STAPHYLOCOCCI AND PSEUDOMONAS AERUGINOSA .....	BM	5R01 AI05283-12	39,051
LOWENBRAUN, STANLEY .....	SOUTHEASTERN CANCER CHEMOTHERAPY GROUP .....	CCI	1R10 CA16389-01	44,188
MEYER, JOHN R. ....	CONTROL OF VENTILATION BY CAROTID BODY .....	CVA	5R01 HL16239-02	40,108
MILLER, LOUISE B. ....	DIMENSIONS AND EFFECT OF FOUR PRESCHOOL PROGRAMS .....	DBR	5R01 HD05354-05	150,586
MOORE, CONDUCT .....	EXPLORATORY STUDIES FOR CANCER RESEARCH .....	SRC	5P01 CA13799-03	98,016
MOORE, CONDUCT .....	CLINICAL CANCER EDUCATION PROGRAM .....	CEC	1R25 CA17985-01	110,238
POTTS, ALBERT M. ....	EXPERIMENTAL AND CLINICAL VISUAL ELECTROPHYSIOLOGY .....	VISB	7R01 EY01669-01	82,341
POTTS, ALBERT M. ....	PATHOPHYSIOLOGICAL STUDIES ON OPTIC NERVE .....	VISA	1R01 EY01704-01	89,352
REID, KENNETH H. ....	NEUROPHYSIOLOGY OF TOOTH PAIN .....	DEN	2R01 DE03644-03	32,631
SIGDESTAD, CURTIS P. ....	RADIATION PROTECTORS AS AN ADJUNCT TO RADIO THERAPY .....	RAD	5R01 CA14668-02	26,539
SPATOLA, ARNO F. ....	AMINO ACID SURROGATES .....	MCHA	1R01 HD09120-01	29,800
SURWILLO, WALTER W. ....	DEVELOPMENT OF THE EEG IN RELATION TO BEHAVIOR .....	NEUA	5R01 HD02395-09	43,802
TAYLOR, K. GRANT .....	USEFUL AMINES VIA CYCLOADDITIONS OF AZA-1,3-DIENES .....	MCHB	1R01 GM19212-01A1	59,875
VOOGT, JAMES L. ....	PITUITARY HORMONES AND BRAIN AMINES DURING REPRODUCTION .....	REB	5R01 HD06907-03	21,729
WESTPHAL, ULRICH F. ....	STERIOD-PROTEIN INTERACTIONS .....	END	5R01 AM06369-14	96,786
WILLIAMS, DONALD E. ....	DERIVATION OF NONBONDED POTENTIAL PARAMETERS .....	BBCA	5R01 GM16260-07	30,384

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>KENTUCKY—Continued</b>				
WILSON, RONALD S.....	HERITABILITY AND MENTAL DEVELOPMENT.....	DBR	5R01 HD07200-02	123,862
WONG, JOHN L.....	CHEMICAL CARCINOGENESIS: CAUSE AND PREVENTION.....	ET	5R01 CA16182-02	39,233
YANKEELOV, JOHN A, JR.....	COVALENT CONTROL OF CORNEA-DAMAGING COLLAGENASE.....	VIS	5R01 EY00969-03	61,893
ORGANIZATION TOTAL	34 1,855,399			
STATE TOTAL	75 4,111,916			
<b>LOUISIANA</b>				
<b>BATON ROUGE</b>				
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY AT BATON ROUGE ZIP CODE 70803</b>				
CHANG, SIMON H.....	TRANSFER RNA IN NORMAL AND NEOPLASTIC HUMAN CELLS.....	SSS	1R01 CA16841-01	18,925
CHANG, SIMON H.....	ROLE OF TRANSFER RNA IN CELLULAR AGING.....	PC	5R01 HD07627-02	27,838
CULLEY, DUDLEY D, JR.....	SUPPORT FOR DEVELOPMENT OF LABORATORY BULLFROGS.....	AR	2P06 RR00635-04	60,486
EVILIA, RONALD F.....	STUDIES ON CHROMATOGRAPHIC SEPARATIONS OF ENANTIOMERS.....	MCHB	5R01 GM20645-02	22,836
HALES, BRIAN J.....	STRUCTURE AND REACTIVITY OF PHOTOTRAP COMPLEXES.....	BBCA	1R01 GM21701-01	21,390
HOUK, KENDALL N.....	THE APPLICATION OF NEW CYCLOADDITIONS TO DRUG SYNTHESIS.....	MCHB	5R01 GM17652-02	32,618
HOUK, KENDALL N.....	PHOTOELECTRON SPECTROSCOPY OF DRUGS AND CARCINOGENS.....	MCHB	3R01 GM21311-01S1	3,260
LEE, WILLIAM R.....	QUANTITATIVE GENETIC STUDY OF ENVIRONMENTAL MUTAGENS.....	GEN	5R01 ES00320-08	65,768
NEWKOME, GEORGE R.....	PYRIDINE HETEROMACROCYCLES: FUTURE BIOLOGICAL MODELS.....	MCHB	2R01 GM20985-04A2	35,913
PRYOR, WILLIAM A.....	FREE RADICAL REACTIONS IN BIOLOGICAL SYSTEMS.....	MCHB	2R01 GM11908-08	54,183
PRYOR, WILLIAM A.....	BIO-ORGANIC CHEMISTRY OF OZONE, NO2 AND TOBACCO SMOKE.....	TOX	5R01 HL16029-02	65,754
SHORT, CHARLES R.....	FETAL AND NEONATAL SERUM DRUG BINDING.....	PHRA	5R01 GM21739-02	24,023
SHORT, CHARLES R.....	3-METHYLCOLANTHRENE METABOLITE-BINDING PROTEINS.....	ET	5R01 GM21780-02	24,320
TRAYNHAM, JAMES G.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07039-04	29,048
ORGANIZATION TOTAL	14 486,362			
<b>SOUTHERN UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE ZIP CODE 70813</b>				
MC NAIRY, SIDNEY A, JR.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08025-04	178,297
ORGANIZATION TOTAL	1 178,297			
<b>CARVILLE</b>				
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE—PHS HOSPITAL ZIP CODE 70721</b>				
KIRCHHEIMER, WALDEMAR F.....	STUDY OF NINE-BANDED ARMADILLOS FOR LEPROSY RESEARCH.....	BM	5R22 AI11204-02	99,280
ORGANIZATION TOTAL	1 99,280			
<b>COVINGTON</b>				
<b>TULANE UNIVERSITY DELTA REGIONAL PRIMATE RESEARCH CENTER ZIP CODE 70433</b>				
LI, YU-TEH.....	GLYCOSIDASES AS RELATED TO SPHINGOLIPIDOSES.....	PC	5R01 NS09626-05	48,799
MARTIN, LOUIS N.....	STUDIES OF IMMUNOGLOBULIN D IN NONHUMAN PRIMATES.....	ALY	1R01 AI12610-01	27,025
ORIHIEL, THOMAS C.....	STUDY OF FILARIAE OF MAN IN PRIMATES.....	TMP	5R22 AI10269-04	28,901
ROBERTS, JAMES A.....	THE ROLE OF THE URETER IN EXPERIMENTAL PYELONEPHRITIS.....	SGYA	5R01 AM14681-05	45,250
WALSH, JOHN J.....	SUPPORT FOR REGIONAL PRIMATE RESEARCH CENTER.....	PME	5P06 RR00164-14	1,441,473
ORGANIZATION TOTAL	5 1,591,448			
<b>GRAMBLING</b>				
<b>GRAMBLING STATE UNIVERSITY ZIP CODE 71245</b>				
HILL, FRANKLIN D.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08054-03	95,165
ORGANIZATION TOTAL	1 95,165			

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>LOUISIANA—Continued</b>				
<b>MONROE</b>				
<b>NORTHEAST LOUISIANA UNIVERSITY</b>	<b>ZIP CODE 71201</b>			
CAUTHEN, SALLY E.....	PURIFICATION OF COCAINESTERASE AND ATROPINESTERASE.....	BIO	5R01 GM20977-02	21,056
ORGANIZATION TOTAL	1 21,056			
<b>NEW IBERIA</b>				
<b>GULF SOUTH RESEARCH INSTITUTE—ATCHAFALAYA BASIN LABORATORIES</b>	<b>ZIP CODE 70561</b>			
STORRS, ELEANOR E.....	METABOLISM OF DDS BY THE ARMADILLO.....	BM	5R22 AI10927-02	76,387
STORRS, ELEANOR E.....	STUDY OF LEPROSY IN THE ARMADILLO.....	BM	5R22 AI11532-02	65,917
STORRS, ELEANOR E.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	AR	5P06 RR00455-07	81,441
ORGANIZATION TOTAL	3 223,745			
<b>NEW ORLEANS</b>				
<b>ALTON OCHSNER MEDICAL FOUNDATION</b>	<b>ZIP CODE 70121</b>			
PORTER, GEORGE H, III.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	3R10 CA15578-01S1	9,185
PORTER, GEORGE H, III.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	2R10 CA15578-02	27,636
RAY, C THORPE.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05518-13	36,800
SEGALOFF, ALBERT.....	COOPERATIVE STUDY OF BREAST CANCER.....	CCI	2R10 CA03364-18	211,394
SEGALOFF, ALBERT.....	SYNTHESIS AND STUDY OF ANTITUMOR AND ENDOCRINE AGENTS.....	ET	5R01 CA10819-07	59,987
ORGANIZATION TOTAL	5 345,002			
<b>DILLARD UNIVERSITY</b>	<b>ZIP CODE 70122</b>			
SUTTON, WILLIAM W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08064-04	53,129
ORGANIZATION TOTAL	1 53,129			
<b>GULF SOUTH RESEARCH INSTITUTE—LAKE PONTCHARTRAIN LABORATORIES</b>	<b>ZIP CODE 70186</b>			
BURCHFIELD, HARRY P.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05672-05	33,575
MONTALVO, JOSEPH G, JR.....	DIAGNOSTIC PROFILING WITH PHOSPHATE ELECTRODES.....	MCHB	5R01 GM17929-04	52,742
MONTALVO, JOSEPH G, JR.....	AMMONIUM ION SPECIFIC ELECTRODE.....	MCHB	1R01 GM22254-01	65,946
ORGANIZATION TOTAL	3 152,263			
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS</b>	<b>ZIP CODE 70119</b>			
BERENSON, GERALD S.....	BIOCHEMISTRY OF CARDIOVASCULAR CONNECTIVE TISSUE.....	PC	5R01 HL02942-19	118,012
BERENSON, GERALD S.....	SUPPORT FOR ARTERIOSCLEROSIS RESEARCH CENTER.....	SRC	5P17 HL15103-04	700,858
BERLIN, CHARLES I.....	PERIPHERAL AND CENTRAL AUDITORY MECHANISMS.....	CDR	3P01 NS11647-01S2	8,964
BICKERS, JOHN N.....	SOUTHWEST ONCOLOGY GROUP INSTITUTIONAL MEMBERSHIP.....	CCI	1R10 CA16422-01	25,794
BLACKARD, WILLIAM G.....	PATHOGENESIS OF DIABETES MELLITUS.....	MET	2R01 AM10151-10	8,148
BOBBIN, RICHARD P.....	MECHANISM OF ACTION OF THE OLIVOCOECHLEAR BUNDLE.....	NEUA	1R01 NS10463-01A3	33,562
BOCKMAN, EMMA L.....	BLOOD FLOW REGULATION IN MUSCLE.....	CVA	1R01 HL17932-01	36,409
CASTRO, ANTHONY J.....	NEURAL PLASTICITY IN THE RODENT MOTOR SYSTEM.....	EXP	2R01 NS11200-02	17,111
COHN, ISIDORE, JR.....	ADMINISTRATION OF NATIONAL PANCREATIC CANCER PROJECT.....	LB	1R26 CA17500-01	163,389
COHN, ISIDORE, JR.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	AR	5P06 RR00272-10	89,044
HOWE, CALDERON.....	IMMUNOCHEMICAL STUDY OF VIRUS RECEPTORS & INFECTED CELLS.....	VR	2R01 AI10945-04	121,149
JEANSONNE, EDMUND E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05704-05	25,759
LILES, SAMUEL L.....	CHOREIFORM DYSKINESIA AFTER STRIATAL LESIONS.....	NEUB	5R01 NS08907-05	38,134
MARTINEZ, I RICARDO, JR.....	MEMBRANE-COATING GRANULES: ISOLATION AND BIOCHEMISTRY.....	DEN	5R23 DE03875-02	7,500
MORGAN, LEE R.....	BIOCHEMICAL MARKERS IN DISEASES OF THE LARGE BOWEL.....	SRC	1R26 CA16766-01A1	52,216
NANCE, FRANCIS C.....	SURGICAL PATHOPHYSIOLOGY IN GN0T0BIOTIC ANIMALS.....	SGYA	2R01 AI10095-04	95,660
NARAYANAN, C H.....	NEUROEMBRYOLOGY OF JAW MUSCLE PROPRIOCEPTION.....	CBY	1R01 DE04258-01	26,860
O'QUINN, SILAS E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05376-14	167,737
REEVES, RICHARD E.....	BIOCHEMISTRY OF ENTERIC AMEBA AND RELATED ORGANISMS.....	PC	5R01 AI02951-14	33,438
REEVES, RICHARD E.....	VARIANT STEP IN GLYCOLYSIS PATHWAY BY PARASITIC AMEBA.....	BIO	5R01 AI10788-03	15,582
SALVAGGIO, JOHN E.....	ALLERGIC DISEASE CENTER.....	AIRC	5P15 AI10975-02	80,497
SPITZER, JOHN J.....	STUDY OF REMOVAL AND MOBILIZATION OF LIPIDS.....	MET	5R01 HL16850-02	87,415
STRONG, JACK P.....	NATURAL AND EXPERIMENTAL ATHEROSCLEROSIS.....	HEP	5P01 HL08974-11	410,215
STRONG, JACK P.....	GEOGRAPHIC PATHOLOGY OF ATHEROSCLEROSIS.....	PTHA	5R01 HL14496-03	54,582



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>LOUISIANA—Continued</b>				
ORGANIZATION TOTAL	24		2,418,035	
<b>LOUISIANA STATE UNIVERSITY SYSTEM—UNIVERSITY OF NEW ORLEANS ZIP CODE 70122</b>				
BRYAN, SARA E.....	INDUCTION OF METALLOTHIONEIN BY CADMIUM, COPPER, MERCURY.....	TOX	2R01 ES00802-04	54,909
GOLDBERG, STANLEY I.....	STEREOCHEMICAL CRITERIA FOR THE MICELLE-ENZYME ANALOGY.....	MCHB	5R01 GM19335-02	33,192
GUILBAULT, GEORGE G.....	ELECTRODE PROBES USING ENZYMES.....	MCHB	2R01 GM17268-04	26,033
GUILBAULT, GEORGE G.....	A REAGENTLESS MONITORING SYSTEM FOR ENZYME ANALYSES.....	MCHB	5R01 GM18646-02	23,478
ORGANIZATION TOTAL	4		137,612	
<b>SOUTHERN UNIVERSITY NEW ORLEANS CAMPUS ZIP CODE 70126</b>				
JACKSON, JOHNNY.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08056-04	82,530
ORGANIZATION TOTAL	1		82,530	
<b>ST. MARY'S DOMINICAN COLLEGE ZIP CODE 70118</b>				
ALDRICH, HAVEN S.....	MOLECULAR GENEEOLOGY OF ANTICONVULSANT COMPOUNDS.....	BBCA	1R01 NS12472-01	6,750
ORGANIZATION TOTAL	1		6,750	
<b>Touro INFIRMARY ZIP CODE 70115</b>				
HYMAN, EDWARD S.....	COMPLEXES OF ALKALI CATIONS IN A LIPID PHASE.....	BBCB	5R01 AM12718-05	15,050
ORGANIZATION TOTAL	1		15,050	
<b>TULANE UNIVERSITY ZIP CODE 70118</b>				
ALWORTH, WILLIAM L.....	BIOSYNTHESIS OF THE DBI MOIETY OF VITAMIN B12.....	PC	5R01 AM10067-09	24,912
ARCOS, JOSEPH C.....	PHARMACOLOGY & BIOCHEMISTRY OF THE ONCOGEN, DIOXANE.....	ET	5R01 CA15111-02	58,130
ARIMURA, AKIRA.....	PHYSIOLOGY OF HYPOTHALAMIC NEUROHORMONES.....	END	2R01 AM09094-10	50,931
ARIMURA, AKIRA.....	PHYSIOLOGICAL STUDIES ON LH-RELEASING HORMONE.....	REB	5R01 HD06555-02	31,970
AYALA, STEPHEN C.....	MALARIA PARASITES OF REPTILE POPULATIONS.....	TMP	1R01 AI12511-01	16,974
BEAVER, PAUL C.....	TAXONOMIC STUDY OF OCCULT HELMINTHIC INFECTIONS.....	TMP	5R01 AI04919-13	27,972
BEAVER, PAUL C.....	SUPPORT FOR INTERNATIONAL CENTER FOR MEDICAL RESEARCH.....	SSS	2R07 AI10050-15	667,339
BECKER, HAL C.....	X-RAY MICROTOMOGRAPHY OF VARIOUS ORGAN SYSTEMS.....	RAD	3R01 CA15209-01S1	6,982
BERNOFSKY, CARL.....	ROLE OF PYRIDINE NUCLEOTIDES IN HUMAN LEUKEMIA.....	ET	7R01 CA18787-01	43,227
BOWERS, CYRIL Y.....	STUDIES ON HYPOTHALAMIC THYROTROPIN-RELEASING FACTOR.....	END	5R01 AM06164-13	82,005
BOWERS, CYRIL Y.....	HYPOTHALAMIC RELEASING AND INHIBITING HORMONES.....	REB	1R01 AM18494-01	74,586
BRULEY, DUANE F.....	MATHEMATICAL STUDIES OF OXYGEN DIFFUSION IN THE BRAIN.....	NEUB	5R01 NS12009-02	48,597
BURCH, GEORGE E.....	CONGESTIVE HEART FAILURE AND PERIPHERAL CIRCULATION.....	CVA	1R01 HL14789-01	49,370
COY, DAVID H.....	SYNTHESIS AND BIOLOGY OF ANALOGUES OF SOMATOSTATIN.....	MCHA	1R01 AM18370-01	26,427
DI LUZIO, NICHOLAS R.....	ROLE RECOGNITION FACTORS AND MACROPHAGES IN NEOPLASIA.....	PTHB	5R01 CA13746-03	80,948
DOMER, JUDITH E.....	STUDY OF CELL-WALL COMPOSITION OF PATHOGENIC FUNGI.....	BM	5R01 AI08588-05	44,705
DOMER, JUDITH E.....	HOST RESPONSES IN EXPERIMENTAL CANDIDIASIS.....	IMB	1R01 AI12806-01	54,629
DOMINGUE, GERALD J.....	PREVENTION OF PYELONEPHRITIS.....	BM	2R01 AI09612-04	51,552
EHRLICH, MELANIE.....	STUDY OF USE OF MODIFIED DNA IN GENE THERAPY.....	GEN	5R01 GM20687-02	35,234
ELLISON, JEFFREY P.....	REFLEXOGENIC ZONES OF THE HEART: A MORPHOLOGIC STUDY.....	CVA	5R01 HL13616-06	21,767
FISHER, JAMES W.....	KIDNEY CONTROL OF ERYTHROPOIETIN PRODUCTION.....	HEM	5R01 AM13211-07	58,222
FRITCHIE, CHARLES J, JR.....	CONFIGURATION OF CHARGE-TRANSFER COMPLEXES.....	BBCA	5R01 GM14189-09	65,288
GEORGE, WILLIAM J.....	CYCLIC NUCLEOTIDES AND ERYTHROPOIESIS.....	PHRA	5R01 HL14976-03	34,237
GERALL, ARNOLD A.....	HORMONAL AND NEURAL CORRELATES OF REPRODUCTIVE BEHAVIOR.....	EXP	5R01 HD00867-13	95,257
GUTH, PAUL S.....	COCHLEAR PHARMACOLOGY—NEUROTRANSMISSION.....	PHRA	5R01 NS10312-02	39,639
HAMORI, EUGENE.....	KINETIC STUDIES OF CONFORMATION CHANGES OF NUCLEIC ACIDS.....	BBCA	2R01 GM20008-03	26,978
HEWITT, ROBERT L.....	PROTECTIVE EFFECT OF CARBOHYDRATE IN CARDIAC ANOXIA.....	SGYA	5R01 HL15813-02	41,557
HOLLAND, MONTE G.....	PHYSIOLOGY AND PHARMACOLOGY OF AQUEOUS HUMOR FLOW.....	VISA	5R01 EY00207-16	21,834
HOLLAND, MONTE G.....	CLINICAL ELECTROPHYSIOLOGIC STUDIES OF OCULAR DISEASE.....	VSN	5P15 EY00494-06	44,357
IGNARRO, LOUIS J.....	CONTROL OF ENZYME RELEASE FROM HUMAN NEUTROPHILS.....	PHRA	5R01 AM17692-02	43,482
JOHNSON, MARY K.....	ROLE OF MICROBIAL CYTOLYSINS IN OCULAR INFECTIONS.....	VISA	2R01 EY00424-07	43,489
JOINER, PAUL D.....	REGULATION OF INTRAPULMONARY AIRWAYS AND VESSELS.....	CVA	1R01 HL18070-01	25,562
KADOWITZ, PHILIP J.....	HUMORAL CONTROL OF PULMONARY AND SYSTEMIC CIRCULATION.....	CVA	5R01 HL15580-03	40,213
KASTIN, ABBA J.....	CONTROL OF MSH RELEASE AND ROLE OF MIF.....	END	5R01 NS07664-08	43,374
KOSTRZEWA, RICHARD M.....	GROWTH AND DEVELOPMENT OF MONOAMINERGIC NEURONS.....	NEUA	1R01 NS12412-01	30,423
KREISMAN, NORMAN R.....	OXYGEN METABOLISM IN SINGLE EPILEPTIC NEURONS.....	NEUA	1R01 NS12419-01	52,455
KREMENTZ, EDWARD T.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12284-05	39,225
KREMENTZ, EDWARD T.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA18007-01	54,983

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>LOUISIANA—Continued</b>				
LIU, Y KING.....	THE TRAUMATOLOGY OF THE HEAD AND SPINE.....	SGYB	5R01 GM19107-03	48,344
LIU, Y KING.....	ACCELERATION INJURIES TO THE SPINAL CORD AND BRAINSTEM.....	NEUB	2R01 NS10517-02A1	41,348
LUMSDEN, RICHARD D.....	CYTOLOGY OF HELMINTH PARASITE-HOST RELATIONSHIPS.....	TMP	5R01 AI08673-07	37,207
MALEK, EMILE A.....	MALACOLOGICAL STUDIES IN LOUISIANA AND TEXAS.....	TMP	5R22 AI11645-02	14,411
MAYORAL, LUIS G.....	INTESTINAL MALABSORPTION IN PROTEIN MALNUTRITION.....	SSS	5R22 AM15242-04	48,552
MC DONALD, JOHN C.....	THE HETEROPHILE SYSTEM IN RENAL TRANSPLANTATION.....	SGYB	5R01 AM16572-03	58,985
MIZELL, MERLE.....	PATHOLOGY OF TUMORIGENESIS IN DEVELOPING EMBRYOS.....	PTHB	5R01 CA11901-05	43,121
MOORE, FRANK I.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05444-14	24,474
PIERCE, WILLIAM A, JR.....	IMMUNITY VS GONORRHEA.....	CDC	5R01 AI11845-03	42,191
SCHALLY, ANDREW V.....	NEUROCHEMISTRY OF THE DIENCEPHALON.....	END	2R01 AM07467-12	93,422
STUCKEY, WALTER J.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA03389-17	64,824
THURMAN, WILLIAM G.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05377-14	190,299
TORNYOS, KARL.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	3R10 CA13249-03S1	7,745
TORNYOS, KARL.....	COOPERATIVE STUDY OF CANCER.....	CCI	2R10 CA13249-04	40,375
TOU, JEN-SIE H.....	PHOSPHOLIPIDS AND PHAGOCYTOSIS BY LEUKEMIC LEUKOCYTES.....	HEM	1R01 CA16483-01	18,489
VOLPE, E PETER.....	GENETIC ASPECTS OF TISSUE TRANSPLANTATION.....	IMB	9R01 AI12667-12	31,232
WEILL, HANS.....	SUPPORT FOR CENTER FOR ENVIRONMENTAL PULMONARY DISEASES.....	SRC	5P17 HL15092-04	207,913
WOODY, NORMAN C.....	LYSINE METABOLISM IN INFANTS AND CHILDREN.....	MET	2R01 HD02920-09	38,595
ORGANIZATION TOTAL	56		3 350,359	
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 70118</b>				
URNER, CHRISTFRIED J.....	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION.....	TEC	5R01 HL10713-09	36,041
ORGANIZATION TOTAL	1		36,041	
<b>XAVIER UNIVERSITY ZIP CODE 70125</b>				
CORRINGTON, JOYCE H.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08008-04	143,401
ORGANIZATION TOTAL	1		143,401	
<b>RUSTON</b>				
<b>LOUISIANA TECHNOLOGICAL UNIVERSITY ZIP CODE 71270</b>				
CRUMP, KENNY S.....	TRANSIENT ANALYSIS OF COUNTER CURRENT MULTIPLIERS.....	COM	5R01 AM16845-02	26,044
CRUMP, KENNY S.....	DYNAMICS OF CHEMOSTAT CULTURES.....	COM	1R01 GM21214-01	16,461
ORGANIZATION TOTAL	2		42,505	
<b>SHREVEPORT</b>				
<b>LOUISIANA STATE UNIVERSITY SYSTEM-LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT SHREVEPORT ZIP CODE 71103</b>				
BROWN, RICHARD D.....	'LOOP' DIURETICS, COCHLEAR POTENTIALS AND ENDOLYMPH.....	PHRA	1R01 GM22097-01	37,151
EICHNER, EDWARD R.....	EFFECT OF ETHANOL AND OTHER DRUGS ON FOLATE METABOLISM.....	NTN	5R01 AM17521-02	24,000
HILMAN, BETTINA C.....	VIRAL AND IMMUNOLOGIC EVALUATION OF WHEEZING INFANTS.....	VR	1R01 HD09336-01	19,194
ORGANIZATION TOTAL	3		80,345	
STATE TOTAL	129		9,558,375	
<b>MAINE</b>				
<b>BAR HARBOR</b>				
<b>JACKSON LABORATORY ZIP CODE 04609</b>				
BAILEY, DONALD W.....	GENETICS OF IMMUNE RESPONSE TO TUMOR ANTIGENS.....	GEN	5R01 CA12663-04	81,944
BERNSTEIN, SELDON E.....	STUDIES OF NEONATAL BLOOD DISORDERS.....	HEM	5R01 HD00254-15	33,348
CHAI, CHEN K.....	HISTOCOMPATIBILITY STUDIES IN INBRED RABBITS.....	GEN	5R01 AI09988-05	44,753
CHAI, CHEN K.....	LYMPHOPOIESIS, RETICULUM CELL HYPERPLASIA, AND GENES.....	IMB	5R01 CA14036-03	46,577
CHERRY, MARIANNA.....	IMMUNOLOGY OF CANCER.....	IMB	5R01 CA01594-24	42,721
COLEMAN, DOUGLAS L.....	HEREDITARY DIABETES IN THE MOUSE.....	GEN	2R01 AM14461-06	57,018
COLEMAN, DOUGLAS L.....	BIOCHEMISTRY OF PIGMENTATION AND INHERITED DISORDERS.....	GEN	5R01 CA05873-14	44,910

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MAINE—Continued</b>				
EICHER, EVA M.	INHERITED GROWTH DISORDERS OF ENDOCRINE SYSTEMS.....	SSS	1R01 AM17947-01	84,791
EICHER, EVA M.	CYTOGENETICS OF THE MOUSE.....	GEN	5R01 GM20919-02	46,828
ELEFThERIOU, BASIL E.	ENVIRONMENT, GENETICS, AND PHEROMONAL OVULATION.....	REB	5R01 HD05860-04	35,441
FOX, RICHARD R.	HEREDITARY DISEASES.....	VISA	5R01 EY01408-02	35,162
GREEN, EARL L.	MECHANISMS OF RESISTANCE TO TUMOR TRANSPLANTS.....	IMB	3R01 CA01329-23S1	3,097
GREEN, EARL L.	NEUROLOGICAL MUTANTS.....	GEN	5R01 NS09378-05	43,160
GREEN, EARL L.	SUPPORT FOR MAINTENANCE OF RABBIT COLONY.....	AR	5P06 RR00251-10	57,092
GREEN, EARL L.	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05545-13	139,471
GREEN, MARGARET C.	DEVELOPMENTAL EFFECTS OF MUTANT GENES.....	HED	5R01 HD05944-04	28,145
HARRISON, DAVID E.	STUDY OF BONE-MARROW ALLOGRAFTS IN ANEMIC MICE.....	SGYB	5R01 HL16119-02	36,757
KANDUTSCH, ANDREW A.	STEROID METABOLISM IN TUMORS AND NORMAL TISSUES.....	MET	5R01 CA02758-20	107,762
KOZAK, LESLIE P.	REGULATION OF ENZYME LEVELS IN BRAIN.....	MBY	2R01 HD06712-04	50,843
KOZAK, LESLIE P.	BIOCHEMICAL GENETICS OF OVARIAN AND TESTICULAR TERATOMAS..	HED	5R01 HD08431-02	32,284
LEITER, EDWARD H.	GENETIC CONTROL OF HYPERPLASIA IN THE ENDOCRINE PANCREAS..	GEN	5R01 AM17631-02	63,416
MURPHY, EDWIN D.	STAGES OF CARCINOGENESIS OF THE CERVIX UTERI IN MICE.....	PTHB	5R01 CA05985-14	75,311
RODERICK, THOMAS H.	STUDY OF MAMMALIAN CHROMOSOMAL INVERSIONS.....	GEN	5R01 GM19656-03	43,749
RUSSELL, ELIZABETH S.	PHYSIOLOGICAL GENETICS OF THE MOUSE.....	GEN	5R01 CA01074-25	104,675
RUSSELL, ELIZABETH S.	ANALYSIS OF GENETIC EFFECTS ON AGING.....	HDAG	3P01 HD05523-04S1	16,390
RUSSELL, ELIZABETH S.	ANALYSIS OF GENETIC EFFECTS ON AGING.....	HDAG	5P01 HD05523-05	126,170
SPROTT, RICHARD L.	GENETIC ANALYSIS OF AVOIDANCE BEHAVIOR IN MICE.....	GEN	3R01 GM21266-01S1	835
SPROTT, RICHARD L.	NEUROCHEMICAL CORRELATES OF AVOIDANCE BEHAVIOR.....	GEN	1R01 GM21469-01A1	45,423
STEVENS, LEROY C.	INVESTIGATIONS ON TERATOCARCINOGENESIS.....	CBY	5R01 CA02662-20	94,664
TAYLOR, BENJAMIN A.	GENETIC ANALYSIS OF COMPLEX INFIRMITIES.....	GEN	5R01 GM18684-04	35,284
WHITTEN, WESLEY K.	MAMMALIAN EGGS AND PHEROMONES.....	HED	5R01 HD04083-07	106,633
ORGANIZATION TOTAL	31		1,764,654	
<b>BRUNSWICK</b>				
<b>BOWDOIN COLLEGE      ZIP CODE 04011</b>				
HOWLAND, JOHN L.	DEFECTIVE ION MOVEMENT IN MUSCULAR DYSTROPHY.....	BIO	5R01 NS11815-05	40,374
KERTZER, DAVID I.	SOCIAL CHANGE IN AN URBANIZING ITALIAN PARISH.....	MP	1R01 HD09557-01	16,784
STEINHART, WILLIAM L.	MECHANISMS OF ONCOGENIC VIRUS GENE EXPRESSION.....	VR	7R01 CA18655-01	48,931
ORGANIZATION TOTAL	3		106,089	
<b>ELIOT</b>				
<b>SOCIETY FOR DEVELOPMENTAL BIOLOGY      ZIP CODE 03903</b>				
BROWN, DONALD D.	SYMPOSIUM: MOLECULAR BIOLOGY OF HORMONE ACTION.....	NSS	1R13 CA18042-01	4,664
ORGANIZATION TOTAL	1		4,664	
<b>ORONO</b>				
<b>UNIVERSITY OF MAINE SYSTEM—UNIVERSITY OF MAINE AT ORONO      ZIP CODE 04473</b>				
COOK, JAMES R.	DEVELOPMENTAL CONTROL MECHANISM.....	MBY	3R01 GM12179-10S1	2,026
GREEN, BRIAN.	STEROIDS OF POTENTIAL ANTINEOPLASTIC ACTIVITY.....	MCHA	5R01 CA11020-03	23,661
HOOVER, WILLIAM H.	DEVELOPMENT OF A SMALL ANIMAL FACILITY.....	AR	1P06 RR00893-01	92,600
LENER, JOSEPH.	STUDY OF AMINO ACID TRANSPORT SYSTEMS IN INTESTINE.....	PHY	5R01 AM15745-03	22,900
MC CLEAVE, JAMES D.	ORIENTATION OF ANIMALS TO ELECTROMAGNETIC FIELDS.....	EXP	5R01 NS11276-02	26,636
MC DANIEL, IVAN N.	STUDY OF OVIPOSITION ATTRACTANTS FOR AEDES TRISERIATUS.....	TMP	5R01 AI11740-02	34,036
MUN, ALTON M.	EMBRYONIC DEVELOPMENT IN UNFERTILIZED TURKEY EGGS.....	HED	5R01 HD06975-03	11,317
ROONEY, JAMES A.	SONIC TECHNIQUES FOR BIOLOGICAL CELL DISPERSAL.....	RAD	5R01 GM20514-03	15,910
ROXBY, ROBERT.	MEASUREMENT OF LIGAND BINDING TO ASSOCIATING ENZYMES.....	BBCA	7R01 AM18893-01	9,874
ORGANIZATION TOTAL	9		238,960	
<b>PORTLAND</b>				
<b>MAINE MEDICAL CENTER      ZIP CODE 04102</b>				
NELSON, CLIFFORD V.	EFFECT OF INTRACARDIAC BLOOD ON HEART DIPOLE MOMENT.....	CVA	3R01 HL13942-03S1	765
RAND, PETER W.	RED CELL FACTORS IN OXYGEN DELIVERY.....	HEM	5R01 HL07984-13	52,299



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MAINE—Continued</b>				
ORGANIZATION TOTAL	2	53,064		
<b>UNIVERSITY OF MAINE SYSTEM—UNIVERSITY OF MAINE PORTLAND-GORHAM CAMPUS</b> ZIP CODE 04103				
BONNER, R ALAN	INFANT CARDIORESPIRATORY REFLEXES SIDS MODEL	CVA	1R01 HD09368-01	45,996
HARTMAN, H BERNARD	RECEPTORS MONITORING MUSCLE TENSION	PHY	1R01 NS12029-01	6,414
ORGANIZATION TOTAL	2	52,410		
<b>SALSBURY COVE</b>				
<b>MOUNT DESERT ISLAND BIOLOGICAL LABORATORY</b> ZIP CODE 04672				
KINTER, WILLIAM B	PHYSIOLOGY AND MORPHOLOGY OF CELL TRANSPORT	PHY	5R01 AM15973-04	83,744
KINTER, WILLIAM B	DDT INHIBITION OF AVIAN SHELL AND SALT GLAND ENZYMES	TOX	5R01 ES00920-03	40,360
MURDAUGH, H V, JR	GENERAL RESEARCH SUPPORT GRANT	NSS	1S01 RR05764-01	30,336
SCHMIDT-NIELSEN, BODIL M	BIOLOGY OF EXCRETORY AND OSMOREGULATORY MECHANISMS	PHY	5R01 AM15972-04	114,200
ORGANIZATION TOTAL	4	268,640		
STATE TOTAL	52	2,488,481		
<b>MARYLAND</b>				
<b>BALTIMORE</b>				
<b>BALTIMORE CITY HOSPITALS</b> ZIP CODE 21224				
SMITH, GARDNER W	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05556-13	54,476
ORGANIZATION TOTAL	1	54,476		
<b>COPPIN STATE COLLEGE</b> ZIP CODE 21216				
OGONJI, GILBERT O	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	GRS	5S06 RR08010-04	64,443
ORGANIZATION TOTAL	1	64,443		
<b>JOHNS HOPKINS UNIVERSITY</b> ZIP CODE 21218				
ADKINSON, N FRANKLIN, JR	STUDY OF ALLERGIC REACTIONS TO DRUGS	IMB	5R01 AI11936-02	20,131
ANDERSON, DAVID E	VASCULAR EFFECTS OF INHIBITORY BEHAVIORAL ADAPTATIONS	AFY	1R01 HL17970-01	63,596
ANDERSON, NORMAN D	LEUKOCYTE-ENDOTHELIAL INTERACTIONS	PTHA	1R01 HL17596-01	49,646
BANG, FREDERIK B	SUPPORT FOR INTERNATIONAL CENTER FOR MEDICAL RESEARCH	SSS	2R07 AI10048-15	528,081
BANG, FREDERIK B	UPPER RESPIRATORY ANTIVIRAL DEFENSE IN MALNUTRITION	VR	1R01 AI12458-01	49,646
BANG, FREDERIK B	INTERACTION OF S02 AND VIRUS ON RESPIRATORY MUCOSA	PTHB	3R01 ES00741-02S1	1,493
BANG, FREDERIK B	INTERACTION OF S02 AND VIRUS ON RESPIRATORY MUCOSA	PTHB	5R01 ES00741-03	49,266
BAYLESS, THEODORE M	LACTOSE INTOLERANCE IN HEALTHY CHILDREN	GMA	5R01 HD07179-02	52,456
BAYLIN, STEPHEN B	HISTAMINASE AND AMINES IN NEUTRAL CREST TUMORS	ENO	1R01 CA18404-01	47,403
BECKER, MARSHALL H	COMPLIANCE WITH DIETARY INTERVENTION THERAPY	SRC	1R01 HL18045-01	118,462
BEER, MICHAEL	ELECTRON MICROSCOPIC STUDIES OF NUCLEIC ACID STRUCTURES	MBY	2R01 GM08968-14	129,827
BESSMAN, MAURICE J	ENZYMATIC SYNTHESIS OF PRECURSORS OF DNA	PC	5R01 GM18649-17	59,119
BLASS, ELLIOTT M	THE ONTOGENY OF INGESTIVE BEHAVIOR	NP	1R01 AM18560-01	20,704
BODIAN, DAVID	STRUCTURE AND SYNAPTIC RELATIONS OF ORGAN OF CORTI	CMS	1R01 NS12641-01	61,371
BOYER, SAMUEL H	STUDY OF HUMAN GENETICS	SSS	5P01 GM19489-04	540,558
BOYER, SAMUEL H	QUANTITATIVE GENETIC CONTROL OF PROTEIN SYNTHESIS	GEN	3R01 HL15026-08S1	30,539
BOYER, SAMUEL H	QUANTITATIVE GENETIC CONTROL OF PROTEIN SYNTHESIS	GEN	5R01 HL15026-09	145,923
BRADY, JOSEPH V	PSYCHOGENIC FACTORS IN CARDIOVASCULAR FUNCTIONS	HEP	3P01 HL06945-13S2	67,401
BRAND, LUDWIG	FLUORESCENCE IN STUDIES OF ENZYME MECHANISMS	BBCA	5R01 GM11632-12	68,482
BRANDES, DAVID	LYSOSOMAL ENZYMES IN X-IRRADIATED TUMOR CELLS	RAD	3R01 CA08518-07S2	39,044
BRINLEY, FLOYD J, JR	ION FLUXES IN NERVE AND MUSCLE	NEUB	2R01 NS08336-15	105,869
BRUSILOV, SAUL W	STUDIES ON COCHLEAR FLUIDS	CMS	1R01 NS11274-01A1	67,263
BUEDING, ERNEST	COMPARATIVE BIOCHEMISTRY OF PARASITIC HELMINTHS	TMP	5R01 AI03515-16	60,195
BUEDING, ERNEST	STUDY OF SCHISTOSOMIASIS	ET	5R22 AI08022-08	111,797
CALKINS, JOSEPH L	HOLOGRAPHIC STRESS-TESTING OF THE SURGICAL CORNEA	VISA	3R01 EY01312-01S1	22,956
CAMERON, JOHN L	PATHOPHYSIOLOGY AND TREATMENT OF ASPIRATION PNEUMONIA	SGYA	5R01 HL15779-02	61,339
CARLSON, FRANCIS D	STRUCTURAL BASIS OF CELLULAR FUNCTION	BBCB	5R01 AM12803-17	39,651

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MARYLAND—Continued</b>				
CARLSON, FRANCIS D.	A STUDY OF MUSCULAR CONTRACTION.	PHY	5R01 AM16315-20	29,980
CARVER, DAVID H.	TISSUE CULTURE STUDIES OF HEPATITIS VIRUSES.	CDC	5R01 AI11850-05	97,432
CEBRA, JOHN J.	PRODUCT ANALYSIS TO ASSESS LYMPHOID CELL POTENTIAL.	ALY	5R01 AI09652-06	87,188
CHARACHE, SAMUEL	STUDY OF ABNORMAL HEMOGLOBINS.	HEM	2R01 HL02799-18A1	140,709
CHEN, CHUNG-HO	BIOCHEMICAL STUDIES OF PROLIFERATIVE RETINOPATHIES.	VISA	1R01 EY01399-01A1	80,415
CHILDS, BARTON	STUDIES IN HUMAN GENETICS.	GEN	5R01 HD00486-20	69,785
CHOW, LIEN P.	EPIDEMIOLOGICAL STUDIES ON IUD RETENTION.	POP	5R01 HD06955-02	42,643
COFFEY, DONALD S.	PROSTATIC GROWTH REGULATION BY ANDROGENS & ANTIANDROGENS.	END	5R01 CA13745-03	51,850
COFFEY, DONALD S.	STUDY OF SKIN RESPONSE IN PROSTATIC CANCER.	SRC	5R26 CA15442-02	57,890
COHEN, ALAN M.	REGULATION OF SYMPATHETIC NEUROBLAST DIFFERENTIATION.	CBY	5R01 HD07389-02	37,095
COLE, GERALD A.	IMMUNOSUPPRESSION AND EXPERIMENTAL VIRAL INFECTION.	IMB	5R01 NS11286-05	78,462
COLVIN, MICHAEL	PHARMACOLOGY OF CYCLOPHOSPHAMIDE AND NITROSOUREAS.	ET	1R01 CA16783-01	67,802
CONE, RICHARD A.	ROLE OF VISUAL PIGMENT IN VISUAL EXCITATION.	VISB	2R01 EY00520-06	81,913
CUATRECASAS, PEDRO.	POLYPEPTIDE HORMONE ACTION AND AFFINITY CHROMATOGRAPHY.	PC	5R01 AM14956-05	111,549
CUATRECASAS, PEDRO.	ESTROGEN RECEPTORS - PURIFICATION AND CHARACTERIZATION.	PC	1R01 AM18035-01	16,629
DAVIS, PAUL J.	THYROID HORMONE-BINDING PROTEINS IN CYTOSOL.	END	2R01 AM15584-04	24,374
DE VOE, ROBERT D.	ANALYSIS OF FLICKER RETINAL ACTION POTENTIALS.	VIS	3R01 EY00008-13S1	11,075
DOTY, STEPHEN B.	A STUDY OF SKELETAL TISSUE REPAIR.	GMB	1R01 AM18184-01	103,467
DRACHMAN, DANIEL B.	NERVE-MUSCLE INTERACTIONS IN EMBRYONIC DEVELOPMENT.	PHRA	5R01 HD04817-06	60,724
EDIDIN, MICHAEL A.	CHEMISTRY AND DEVELOPMENT OF TRANSPLANTATION ANTIGENS.	ALY	5R01 AM11202-09	48,611
ENGLUND, PAUL T.	STRUCTURE AND MECHANISM OF ACTION OF DNA POLYMERASE.	BIO	2R01 CA13602-07	89,344
EWING, LARRY L.	REGULATION OF ANDROGEN SECRETION IN MAMMALIAN TESTES.	END	5R01 HD07204-04	84,306
FARRELL, RICHARD A.	LIGHT SCATTERING & ULTRASTRUCTURAL STUDIES OF THE CORNEA.	VISA	5R01 EY01019-03	63,988
FENSELAW, ALLAN H.	CONTROL OF TUMOR-INDUCED VASCULARIZATION.	PTHB	1R01 CA15381-01A1	31,192
FENSELAW, ALLAN H.	KETONE BODY UTILIZATION BY MALIGNANT HEPATOMAS.	PTHB	1R01 CA18053-01	35,648
FENSELAW, CATHERINE C.	NEW APPLICATIONS OF MASS SPECTROMETRY IN PHARMACOLOGY.	SSS	3R01 GM21248-01S1	7,602
FINE, STUART L.	CLINICOGENETIC STUDIES OF BEST'S MACULAR DYSTROPHY.	VISA	5R01 EY00976-03	49,021
FINKELSTEIN, DANIEL	EXPERIMENTAL RETINAL NEOVASCULARIZATION.	VISA	2R01 EY01368-02	52,440
GAFFNEY, BETTY G.	SPIN-LABELING RECEPTORS ON NORMAL AND MALIGNANT CELLS.	BBCB	5R01 CA15997-02	37,603
GANN, DONALD S.	HEMODYNAMIC CONTROL OF PITUITARY ADRENAL FUNCTION.	END	2R01 AM14952-05	102,720
GARVEY, WILLIAM D.	SCIENTIFIC COMMUNICATION IN BIOLOGICAL SCIENCES.	BCM	2R01 LM00877-03A1	21,104
GILLESPIE, ELIZABETH	ROLE OF MICROTUBULES IN HYPERSENSITIVITY REACTIONS.	IMB	5R01 AI11919-02	29,471
GOLDSTEIN, MOISE H., JR.	NEURAL ENCODING OF PATTERNED ACOUSTIC STIMULI.	CMS	3R01 NS05143-10S1	32,182
GRAHAM, GEORGE G.	INFANTILE DIARRHEA AND MALNUTRITION.	SSS	2R22 AM09980-10	191,658
GRAVES, IRVING L.	INFLUENZA IN ANIMALS AND MAN IN INDIA AND NEPAL.	VR	1R22 AI12445-01	44,368
GREENAWALT, JOHN W.	MITOCHONDRIAL MAO: ROLE IN BIOGENIC AMINE METABOLISM.	BIO	1R01 NS12016-01	39,632
GREENE, HARRY L.	ISCHEMIA-INDUCED CARDIAC ELECTRICAL INSTABILITY.	SRC	1R01 HL18799-01	83,593
GREENOUGH, WILLIAM B., III.	CELLULAR RESPONSES TO CHOLERA TOXIN.	SSS	5R22 AI08209-08	45,931
HANNAWAY, CAROLINE C.	MEDICAL CARE AND THE STATE IN 18TH CENTURY FRANCE.	SSS	1R01 LM02497-01	21,594
HARRINGTON, WILLIAM F.	BIOPHYSICAL CHEMICAL STUDIES ON MUSCLE PROTEINS.	MBY	5R01 AM04349-15	159,145
HARRIS, ALAN H.	CIRCULATORY EFFECTS OF OPERANT CARDIOVASCULAR CONTROL.	EXP	1R01 HL17958-01	77,839
HARRISON, HAROLD E.	CALCIUM AND PHOSPHATE TRANSPORT.	GMB	5R01 AM00668-21	44,766
HARRISON, WALTER K.	CARDIAC FUNCTION AND PROGNOSIS OF CORONARY DISEASE.	TEC	2R01 HL14928-04	41,767
HARRISON, WALTER K.	MYOCARDIAL FUNCTION, RISK FACTORS AND FUTURE CHD.	TEC	1R01 HL16907-01	58,193
HARRISON, WALTER K.	CARDIOVASCULAR AGING IN YOUNG MEN AND WOMEN.	AFY	1R01 HL18277-01	50,768
HARTMAN, PHILIP E.	GENETIC MECHANISMS AND GENE ACTION.	GEN	5R01 AI01650-18	87,423
HEINZ, JOHN M.	MECHANISMS OF SPEECH PRODUCTION.	CMS	3R01 NS08041-06S1	4,959
HEINZ, JOHN M.	MECHANISMS OF SPEECH PRODUCTION.	CMS	2R01 NS08041-07	68,950
HENDRIX, THOMAS R.	PATHOGENESIS OF FLUID AND ELECTROLYTE LOSS IN CHOLERA.	BM	5R22 AI08187-08	68,040
HENNEY, CHRISTOPHER S.	IN VITRO STUDIES OF CELL-MEDIATED IMMUNITY.	ALY	5R01 AI10280-05	63,181
HEPTINSTALL, ROBERT H.	RENAL CIRCULATION AND EXPERIMENTAL HYPERTENSION.	PTHA	5R01 HL07835-14	97,532
HERNDON, ROBERT M.	THE FINE STRUCTURAL ALTERATIONS IN CNS VIRAL DISEASE.	PTHA	5R01 NS08997-06	29,118
HILLIS, WILLIAM D.	VIRAL ETIOLOGY OF HUMAN RENAL DISEASE.	VR	5R01 AI11430-02	28,686
HOLLIS, DONALD P.	CANCER DIAGNOSIS BY MAGNETIC RESONANCE.	BBCB	5R01 CA14817-03	36,367
HOLLIS, DONALD P.	NMR STUDY OF ENZYME-SUBSTRATE INTERACTIONS.	BBCB	2R01 GM17172-06A1	60,694
HSU, YU-CHIH.	EMBRYONAL TUMORS.	PTHB	5R01 CA12336-05	69,690
HUANG, RU-CHIH C.	CONTROL OF MYELOMA TUMOR GROWTH.	GEN	5R01 CA13953-03	62,823
HUANG, RU-CHIH C.	NUCLEOCYTOPLASMIC INTERACTIONS IN DEVELOPMENT AND AGING.	CBY	5R01 HD08185-02	68,753
HUNT, RICHARD K.	DEVELOPMENT AND EXPRESSION OF NEURONAL LOCUS SPECIFICITY.	NEUA	1R01 NS12606-01	49,320

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MARYLAND—Continued</b>				
ISHIZAKA, KIMISHIGE	RELATION OF GAMMA GLOBULIN STRUCTURE TO HYPERSENSITIVITY...	IMB	2R01 AI10060-05	79,207
ISHIZAKA, KIMISHIGE	REGULATION OF REAGINIC ANTIBODY RESPONSE	IMB	5R01 AI11202-03	75,723
JOHNS, RICHARD J	A NEUROSENSORY INTERDISCIPLINARY RESEARCH PROGRAM	CDR	5P01 NS07226-07	208,010
JOHNSON, JOHN W	THE EFFECT OF ASPHYXIA ON FETAL LUNG FLUID	HED	5R01 HD04050-05	23,265
JOHNSON, JOHN W	MATERNAL ENDOCRINE FACTORS AND PREMATURE LABOR	HED	1R01 HD09243-01	38,529
JOHNSON, PETER Y	PHOTOLYSIS OF AMINO-DIONES—A SYNTHESIS OF PENICILLIN	MCHA	2R01 AI10389-04	29,514
JOHNSON, PETER Y	6-ALKOXYTETRAHYDRO-1,3-OXAZINES AS ANTICANCER AGENTS	MCHA	1R01 CA17115-01	35,593
KANTNER, JOHN F	PREADULT FERTILITY AND FAMILY FORMATION	POP	2R01 HD05255-04	235,954
KAZAZIAN, HAIG H, JR	THE GENETIC CONTROL OF HEMOGLOBIN SYNTHESIS	HEM	2R01 AM13983-06	71,768
KELLY, THOMAS J, JR	MECHANISM OF VIRAL CARCINOGENESIS	VR	5R01 CA13394-03	45,284
KESSLER, IRVING I	A STUDY OF ARTIFICIAL SWEETENERS IN BLADDER CANCER	SRC	5R26 CA14241-03	38,942
KESSLER, IRVING I	MALE ROLE IN CERVICAL CANCER	EDC	1R01 CA16605-01	235,179
KESSLER, IRVING I	A PROSPECTIVE STUDY OF CANCER RISK IN TUBERCULOSIS	EDC	1R01 CA16975-01	150,904
KOREEDA, MASATO	CHEMICAL STUDIES ON INSECT MOLTING HORMONES	MCHB	1R01 AI12150-01A1	39,712
KOWARSKI, AYOAM	PRODUCTION RATE AND CONCENTRATION OF HORMONES	MET	2R01 HD06284-04	59,575
KWITEROVICH, PETER O	CELL MEMBRANES AND PLASMA LIPOPROTEINS	PC	1R01 HL17898-01	86,128
LAMBERG, STANFORD I	MYCOSIS FUNGOIDES COOPERATIVE STUDY-PILOT PHASE	CCI	3R10 CA16020-02S1	19,316
LANE, M DANIEL	CARBOXYLASE ACTIVATION AND CONTROL OF LIPID SYNTHESIS	PC	2R01 AM14574-06	71,127
LANE, M DANIEL	INVESTIGATION OF PHOSPHOENOLPYRUVATE CARBOXYLASES	BIO	5R01 AM14575-06	64,651
LANGHAM, MAURICE E	ADRENERGIC PHYSIOLOGY OF THE EYE	VISA	5R01 EY01352-02	79,140
LARRABEE, MARTIN G	METABOLISM AND FUNCTION IN SYMPATHETIC NEURONS	PHY	5R01 NS00702-21	34,750
LEE, YUAN C	BIOCHEMISTRY OF COMPLEX CARBOHYDRATES	BIO	5R01 AM06970-10	64,863
LEHNINGER, ALBERT L	ENZYMATIC ACTIVITIES OF MITOCHONDRIA	BIO	5R01 GM05919-17	161,942
LENHARD, RAYMOND E, JR	EASTERN COOPERATIVE GROUP-ONCOLOGY STUDIES	CCI	1R10 CA16116-01	28,794
LENHARD, RAYMOND E, JR	EASTERN COOPERATIVE ONCOLOGY GROUP - ONCOLOGY STUDIES	CCI	2R10 CA16116-02	46,541
LENHARD, RAYMOND E, JR	CANCER CONTROL DEVELOPMENTAL GRANT	SRC	1R18 CA17448-01	391,795
LENHARD, RAYMOND E, JR	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17970-01	182,441
LENNARZ, WILLIAM J	LIPID AMINO ACID AND GLYCOLIPID METABOLISM IN BACTERIA	MBG	5R01 AI06888-10	90,368
LENNARZ, WILLIAM J	LIPID CARRIERS IN MEMBRANE GLYCOPROTEIN SYNTHESIS	PC	1R01 GM21451-01	57,276
LEVIN, JACK	BLOOD COAGULATION AND HEMORRHAGIC DISEASE	HEM	5R01 HL01601-27	124,183
LEVY, DAVID A	STUDY OF ALLERGIC MECHANISMS WITH MASTOCYTOMA CELLS	ALY	5R01 AI1281-02	40,750
LICHTENSTEIN, LAWRENCE M	IN VITRO STUDIES OF HUMAN ANAPHYLAXIS	IMB	2R01 AI07290-10	90,321
LICHTENSTEIN, LAWRENCE M	AN IN VITRO APPROACH TO PROBLEMS OF CLINICAL ALLERGY	IMB	5R01 AI08270-08	54,385
LICHTENSTEIN, LAWRENCE M	PHARMACOLOGIC CONTROL OF HYPERSENSITIVITY PHENOMENA	ALY	5R01 AI1334-03	75,917
LILIENTHAL, ABRAHAM M	EPIDEMIOLOGY CENTER FOR STUDIES OF DIGESTIVE DISEASES	SSS	1P01 AM18021-01A1	96,600
LILIENTHAL, ABRAHAM M	STUDY OF EPIDEMIOLOGY OF CANCER	CAP	5P01 CA11489-06	616,674
LILIENTHAL, ABRAHAM M	STUDY OF BREAST CANCER AND PRIOR USE OF HORMONES	EDC	5R01 CA14031-03	110,419
LILIENTHAL, ABRAHAM M	STUDY OF CEREBROVASCULAR DISEASE	NSPA	5P01 NS06229-10	405,709
LIN, SHIN	MOLECULAR BASIS OF ACTION OF CYTOCHALASIN B	MBY	1R01 GM22289-01	59,238
LITTLEFIELD, JOHN W	HYBRIDIZATION, DNA FUNCTION, MUTATION IN CELL CULTURE	SSS	2R01 CA16754-02	233,480
LOCKWOOD, DEAN H	INSULIN ACTION IN NORMAL AND RESISTANT STATES	MET	5R01 AM13562-06	75,222
LOVE, WARNER E	X-RAY STRUCTURE ANALYSIS OF BIOLOGICAL MOLECULES	BBCB	5R01 AM02528-16	71,388
LOVE, WARNER E	X-RAY CRYSTAL STRUCTURE OF SICKLE CELL HEMOGLOBIN	BBCB	5R01 AM16446-03	61,039
MARCUS, ROBERT L	ANTIGEN-ANTIBODY COMPLEXES IN RHEUMATOID ARTHRITIS	ALY	2R01 AM15714-04	35,579
MARGOLIS, SIMEON	HORMONAL CONTROL OF LIPID AND LIPOPROTEIN SYNTHESIS	PC	5R01 HL15930-03	47,145
MARIN, OSCAR S	SHORT-TERM MEMORY PROCESSES IN APHASIA	CMS	5R01 NS12160-01	36,264
MARSH, DAVID G	IMMUNOCHEMICAL STUDIES OF IMMEDIATE HYPERSENSITIVITY	ALY	5R01 AI09565-06	50,729
MARZILLI, LUIGI G	DNA AND RNA SEQUENCING BY CHELATE METAL COMPLEXES	BBCA	1R01 GM20544-01A1	43,166
MATANOSKI, GENEVIEVE M	POSSIBLE CANCER RISKS AMONG VETERINARIANS	EDC	1R01 CA16923-01S1	42,343
MATANOSKI, GENEVIEVE M	BLADDER CANCER AFTER BENZIDINE EXPOSURE	EDC	1R01 CA16753-01	96,184
MATTOON, JAMES R	GENETIC MODIFICATION OF MITOCHONDRIA	BIO	2R01 GM15884-10A1	61,961
MAYER, MANFRED M	CHEMICAL AND BIOLOGICAL STUDIES OF COMPLEMENT	ALY	5R01 AI02566-16	65,368
MAYER, MANFRED M	PHYSICO-CHEMICAL AND BIOLOGICAL STUDIES OF LYMPHOKINES	ALY	1R01 AI12472-01	16,321
MC INTYRE, PATRICIA A	TRACER TECHNIQUES IN DIAGNOSIS OF ACUTE CHOLECYSTITIS	RAD	5R01 AM17243-02	29,056
MC INTYRE, PATRICIA A	8TH INTERNATIONAL MEETING OF ICSS PANEL	HEM	3R13 CA16923-01S1	1,500
MC KHANN, GUY M	BIOCHEMICAL STUDIES OF MYELINIZATION	PC	2R01 NS08719-07	41,645
MC KHANN, GUY M	DEVELOPMENT AND REGENERATION IN THE NERVOUS SYSTEM	NSPB	5P01 NS10920-03	457,323
MC KUSICK, VICTOR A	CATALOGS OF MENDELIAN TRAITS IN MAN	GEN	2R01 GM18676-04	40,624
MIGEON, BARBARA R	GENETIC STUDIES OF HUMAN SOMATIC CELLS	GEN	5R01 HD05465-05	84,453
MIGEON, CLAUDE J	RELATION OF HORMONES TO GROWTH AND DEVELOPMENT	END	5R01 AM00180-24	89,763



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MARYLAND—Continued</b>				
MILNOR, WILLIAM R.....	DYNAMICS OF PULSATILE BLOOD FLOW.....	PHY	2R01 HL12607-07	60,569
MITZNER, WAYNE A.....	TISSUE AND SURFACE FORCES ON DYNAMIC P-V LOOPS.....	YIP	1R23 HL18350-01	41,400
MOLLIVER, MARK E.....	PARAMETERS OF ONTOGENESIS OF CORTICAL NEURONS.....	NEUA	5R01 NS08153-05	15,077
MONEY, JOHN.....	LONGITUDINAL AND RELATED PSYCHOHORMONAL STUDIES.....	SSS	5R01 HD00325-19	112,133
MONJAN, ANDREW A.....	MENTAL RETARDATIONS OF VIRAL ETIOLOGY.....	VR	1R01 HD08490-01	64,906
MONJAN, ANDREW A.....	LCM VIRUS CEREBELLAR DISEASE IN NEONATES.....	PTHA	2R01 NS09779-04	84,277
MORGAN, RUSSELL H.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00035-15	786,198
MORGAN, RUSSELL H.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER (CHILDREN).....	CLR	5M01 RR00052-14	129,257
MORGAN, RUSSELL H.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00722-03	219,090
MORGAN, RUSSELL H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05378-14	255,345
MOSLEY, WILEY H.....	POPULATION STUDIES.....	HDPR	5P01 HD06268-03	240,771
MOUDRIANAKIS, EVANGELOS N.....	OXIDATIVE PHOSPHORYLATION AND MEMBRANE STRUCTURE.....	BIO	5R01 AI02443-17	46,950
MOUNTCASTLE, VERNON B.....	NEUROPHYSIOLOGY OF SENSORY SYSTEMS AND CEREBRAL CORTEX.....	NSPB	5P01 NS06828-09	422,538
MOXON, E RICHARD.....	THE STUDY OF HEMOPHILUS INFLUENZAE-INDUCED CNS INJURY.....	BM	1R01 NS12554-01	46,341
MURPHY, PATRICK A.....	CHEMISTRY AND PHYSIOLOGY OF LEUKOCYTIC PYROGEN.....	BM	5R01 AI03772-15	66,757
NAGER, GEORGE T.....	A HISTOPATHOLOGIC STUDY OF HUMAN TEMPORAL BONES.....	CMS	2R01 NS02182-16	102,699
NAGER, GEORGE T.....	PROGRAM ON NATIONAL CENTER FOR TEMPORAL BONE BANKS.....	CMS	5R01 NS11447-02	58,928
NARAYAN, OPENDRA.....	PATHOGENESIS OF VISNA, A SLOW DEMYELINATING DISEASE.....	VR	1R01 NS12127-01	84,387
NASON, ALVIN.....	ENZYMOLGY OF NITRATE RESPIRATION AND ASSIMILATION.....	MBC	5R01 GM21131-25	61,525
NATHANS, DANIEL.....	PROGRAM ON MOLECULAR BIOLOGY OF VIRAL TUMORIGENESIS.....	CAK	1P01 CA16519-01	577,152
NATHANSON, CONSTANCE A.....	ORGANIZATION AND PRACTICE OF ABORTION IN MARYLAND.....	POP	1R01 HD09269-01	61,620
NATHANSON, NEAL.....	STUDY OF THE IMMUNOPATHOGENESIS OF VISNA.....	PTHA	5R01 NS11451-02	111,701
NEILL, CATHERINE A.....	NATURAL HISTORY OF CONGENITAL HEART DISEASE-JOINT STUDY.....	TEC	5R01 HL10718-10	31,493
NICKON, ALEX.....	STERIC AND KINETIC FACTORS IN TERPENE CYCLIZATIONS.....	MCHB	5R01 GM06304-16	65,634
NORMAN, PHILIP S.....	A STUDY OF ALLERGY TO RAGWEED POLLEN.....	IMB	5R01 AI04866-13	34,845
NORMAN, PHILIP S.....	CLINICAL STUDY OF ALLERGIC DISEASES.....	AIRC	5P15 AI10304-05	114,359
O'KEEFE, EDWARD J.....	EPIDERMAL GROWTH FACTOR, ORIGIN AND BIOLOGICAL ROLE.....	GMA	1R23 DE04114-01	12,392
ODELL, GERARD B.....	MATURATION OF LIVER FOR THE METABOLISM OF BILIRUBIN.....	GMA	5R01 HD02268-10	50,943
OLTON, DAVID S.....	BIOLOGICAL EFFECTS OF STEROIDS.....	NEUA	5R01 NS11641-20	48,128
OWENS, ALBERT H, JR.....	SUPPORT FOR CLINICAL CANCER CENTER.....	CAP	5P02 CA06973-13	1,236,412
PARIKH, INDU.....	ESCHERICHIA COLI TOXINS, PURIFICATION & PROPERTIES.....	BM	1R22 AI12665-01	59,460
PARIKH, INDU.....	AFFINITY CHROMATOGRAPHY OF RENIN.....	SSS	1R01 HL17428-01	30,629
PATZ, ARNALL.....	STUDIES ON THE RETINA AND RETINAL VESSELS.....	VISA	5R01 EY00205-16	65,688
PATZ, ARNALL.....	STUDY OF DIABETIC RETINOPATHY.....	VISA	5R01 EY00250-12	54,869
PATZ, ARNALL.....	STUDIES OF RETINAL ISCHEMIA.....	VIS	5R01 EY01008-03	78,599
PEDERSEN, PETER L.....	CONTROL OF ENZYMIC PHOSPHATE TRANSFER IN MITOCHONDRIA.....	BIO	2R01 CA10951-07	53,958
PERMUTT, SOLBERT.....	CARDIOVASCULAR, PULMONARY, AND BEHAVIORAL STUDIES.....	HEP	5P01 HL10342-10	465,840
PERMUTT, SOLBERT.....	SUPPORT FOR PULMONARY DISEASE CENTER.....	SRC	5P17 HL14153-05	334,906
PIERCE, NATHANIEL F.....	MECHANISMS OF ENTEROTOXIN-INDUCED DIARRHEAL DISEASE.....	GMA	5R22 AI07625-09	105,309
PIERONI, DANIEL R.....	EARLY DETECTION AND PREVENTION OF ARTERIOSCLEROSIS.....	SRC	5R01 HL14207-05	59,872
PIGIET, VINCENT P, JR.....	STRUCTURAL BASIS FOR REGULATION OF RIBOTIDE REDUCTASE.....	MBC	5R01 GM20122-03	32,710
PITHA, PAULA M.....	HUMAN INTERFERON - INDUCTION BY POLYNUCLEOTIDES.....	VR	5R01 AI10944-04	26,318
PLAUT, MARSHALL.....	HISTAMINE IN MODULATION OF CELL-MEDIATED IMMUNITY.....	IMB	1R01 AI12810-01	47,899
POLIAK, ROBERTO J.....	STRUCTURE OF IMMUNOGLOBULINS.....	BBCB	5R01 AI08202-08	171,822
POLLACK, IRVIN P.....	EVALUATION OF CONSTANT-PRESSURE APPLANATION TONOGRAPHY.....	VISA	2R01 EY01178-03	31,135
POSNER, GARY H.....	TOTAL SYNTHESIS OF A POTENTIAL ANTITUMOR LACTONE.....	MCHA	3R01 CA12658-03S1	3,050
POSNER, GARY H.....	TOTAL SYNTHESIS OF A POTENTIAL ANTITUMOR LACTONE.....	MCHA	2R01 CA12658-04	39,841
POSNER, GARY H.....	TOTAL SYNTHESIS OF CROTEPOXIDE, AN ANTITUMOR COMPOUND.....	MCHA	5R01 CA16068-02	28,977
POZEFSKY, THOMAS.....	AMINO ACID METABOLISM IN HUMAN FOREARM TISSUES.....	MET	2R01 AM14754-04A1	61,438
PRENDERGAST, ROBERT A.....	CELLULAR SPECIFICITY IN DELAYED HYPERSENSITIVITY.....	ALY	2R01 AI06927-10	36,128
PREZIOSI, THOMAS J.....	SUPPORT FOR CENTER FOR STUDY OF STROKE.....	NSPA	5P17 NS11099-03	75,954
PROUT, THADDEUS E.....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	SSS	5R01 AM04403-15	35,948
RANDALL, DAVID C.....	BEHAVIORAL INFLUENCES ON CARDIAC CONTRACTILITY.....	CVB	1R01 HL17680-01	50,888
ROBINSON, CECIL H.....	STEROIDS WITH CYTOTOXIC EFFECTS ON THE PROSTATE.....	SRC	5R26 CA16418-02	67,261
ROBINSON, DAVID A.....	STUDY OF OCULOMOTOR CONTROL SYSTEM.....	VISB	5R01 EY00598-07	82,005
ROBINSON, ROBERT A.....	STUDIES ON STIMULATION OF BONE FORMATION.....	SGVB	5R01 AM04993-14	24,132
ROLLEY, RONALD T.....	IMMUNOLOGICAL ANALYSES OF RENAL TRANSPLANT PATIENTS.....	SSS	1R01 AM18267-01	41,262
ROSEMAN, SAUL.....	STUDY OF STRUCTURE AND FUNCTION OF CELL MEMBRANES.....	PC	5R01 AM09851-10	150,822
ROSEMAN, SAUL.....	BIOCHEMISTRY OF NORMAL AND MALIGNANT CELL SURFACES.....	MBY	5R01 CA15161-02	86,211
ROSENQUIST, GLENN C.....	HISTOGENESIS AND BIOCHEMISTRY OF EMBRYONIC LUNG.....	HED	5R01 HL16466-02	73,353

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MARYLAND—Continued</b>				
ROSS, RICHARD S.	STUDY OF ISCHEMIC HEART DISEASE .....	SRC	1P17 HL17655-01	733,073
ROTH, STEPHEN A.	MORPHOGENESIS IN EMBRYONIC AND PATHOLOGICAL SYSTEMS .....	CBY	5R01 HD05297-05	63,774
SACHS, MURRAY B.	STIMULUS ENCODING IN THE AUDITORY SYSTEM .....	CMS	1R01 NS12112-01	99,038
SAGAWA, KIICHI	SYSTEMS ANALYSIS OF BARORECEPTOR REFLEX .....	CVA	5R01 HL14529-04	73,503
SAGAWA, KIICHI	A NEW INDEX OF CARDIAC CONTRACTILITY .....	CVA	2R01 HL14903-04	71,803
SANTOS, GEORGE W.	STUDY OF TRANSPLANTATION OF BONE MARROW .....	CAP	5P01 CA15396-02	144,599
SANTOS, GEORGE W.	EFFECTS OF SEA STAR FACTOR ON TUMOR IMMUNITY AND GVHR .....	SSS	1R01 CA17184-01	68,420
SCHRAMM, LAWRENCE P.	ANALYSIS OF INTERACTION BETWEEN CNS VASOMOTOR SYSTEMS .....	CVA	5R01 HL16315-02	37,372
SCHUETZ, ALLEN W.	OOCYTE GROWTH & MATURATION-MECHANISMS & REGULATION .....	REB	1R01 HD07041-01A1	41,400
SELTZER, RAYMOND	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05445-14	234,701
SHAH, KEERTI V.	INVESTIGATION OF SV40-RELATED INFECTIONS OF MAN .....	VR	2R01 CA13478-04	75,900
SHAH, KEERTI V.	STUDY OF HUMAN BLADDER TUMORS AND PAPOVAVIRUSES .....	SRC	5R26 CA14556-03	41,392
SHEARN, ALLEN D.	REGULATION OF POSTEMBRYONIC DEVELOPMENT IN DROSOPHILA .....	GEN	5R01 GM20429-02	43,470
SHELDON, WALTER H.	EXPERIMENTAL DIFFUSE INTERSTITIAL PULMONARY FIBROSIS .....	PTHA	1R01 HL16359-01A1	55,873
SHIN, HYUN S.	STUDIES ON TUMOR IMMUNITY .....	IMB	5R01 CA14113-03	66,822
SILVERSTEIN, ARTHUR M.	STUDY OF OCULAR HYPERSENSITIVITY .....	VISA	5R01 EY00217-15	40,413
SILVERSTEIN, ARTHUR M.	PATHOGENESIS OF UVEITIS .....	VISA	2R01 EY00279-12	54,754
SILVERSTEIN, ARTHUR M.	STUDY OF MAMMALIAN LYMPHOGENESIS AND IMMUNOGENESIS .....	IMB	5R01 HD07935-02	54,186
SOFER, WILLIAM H.	A SYSTEM FOR ANALYSIS OF GENE CONTROL .....	GEN	3R01 GM18254-04S1	7,991
SOUTHWICK, CHARLES H.	PRIMATE POPULATION STUDIES .....	PME	5R01 RR00910-02	11,936
SPIWAK, JERRY L.	ROLE OF ERYTHROPOIETIN IN TRANSCRIPTIONAL CONTROL .....	HBM	5R01 AM16702-03	17,679
STARK, WALTER J.	THE ROLE OF HT-A ANTIGENS IN CORNEAL TRANSPLANTATION .....	VISA	5R01 EY01302-02	56,020
STRANDBERG, JOHN D.	SUPPORT FOR ANIMAL-CARE FACILITY .....	PME	2P06 RR00130-12	168,705
STRANDBERG, JOHN D.	ANIMAL RESOURCE IMPROVEMENT .....	PME	1P06 RR00928-01	98,735
SUSKIND, SIGMUND R.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	NSS	5S05 RR07041-10	54,633
SYKES, ZENAS M. JR.	DYNAMICS OF POPULATIONS WITH CHANGING VITAL RATES .....	POP	1R01 HD08959-01	32,288
TALALAY, PAUL	BIOCHEMICAL PHARMACOLOGY OF STEROID HORMONES .....	END	5R01 AM07422-12	69,742
TALALAY, PAUL	STUDY OF CHEMOTHERAPEUTIC AGENTS .....	PTR	2P01 GM16492-07	233,922
TALAMO, RICHARD C.	THE KININ SYSTEM AND ALPH-1-ANTITRYPSIN IN MAN .....	PTHA	1R01 HL18031-01	61,189
TS'O, PAUL O.	ESR STUDY ON HYDROCARBON RADICALS AND CARCINOGENESIS .....	BBCB	5R01 CA13730-04	51,474
TS'O, PAUL O.	NUCLEIC ACID INVOLVEMENT IN NEOPLASTIC TRANSFORMATION .....	CAK	1P01 CA16043-01A1	216,722
TS'O, PAUL O.	NUCLEIC ACID CHEMISTRY AND ITS BIOMEDICAL APPLICATION .....	BBCB	3R01 GM16066-07S1	48,000
TS'O, PAUL O.	NUCLEIC ACID CHEMISTRY AND ITS BIOMEDICAL APPLICATION .....	PC	5R01 GM16066-08	120,650
TSONG, TIAN Y.	DYNAMICS OF ARTIFICIAL AND BIOLOGICAL MEMBRANES .....	BBCB	1R01 HL18048-01	50,871
TYSON, JOHN E.	HUMAN FETAL HOMEOSTASIS: OSMOREGULATION BY PROLACTIN .....	HED	1R01 HD08061-01A1	40,400
WAGNER, HENRY N. JR.	NUCLEAR INSTRUMENTATION AND CHEMISTRY IN MEDICINE .....	SSS	5P01 GK10548-13	373,802
WALKER, DONALD G.	STUDIES OF OSTEOPETROSIS AND ON ISOLATED OSTEOCLASTS .....	GMB	2R01 AM12491-07	65,660
WALKER, W. GORDON	FACTORS REGULATING ELECTROLYTE EXCRETION BY THE KIDNEY .....	CVA	5R01 HL03303-18	75,498
WALKER, W. GORDON	STUDY OF ROLE OF ANGIOTENSIN IN HYPERTENSION .....	GMB	5R01 HL15349-02	35,824
WALSER, MACKENZIE	IONIC INTERACTIONS IN ELECTROLYTE METABOLISM .....	PHY	3R01 AM02306-16S1	1,810
WALSER, MACKENZIE	IONIC INTERACTIONS IN ELECTROLYTE METABOLISM .....	PHY	2R01 AM02306-17	64,627
WALSER, MACKENZIE	AMINO ACID ANALOGUES IN NUTRITION .....	SSS	1P01 AM18020-01	214,503
WALSH, FRANK B.	NEUROPATHOLOGY AND CLINICAL OPHTHALMOLOGICAL DIAGNOSIS .....	VISA	5R01 EY00215-15	44,519
WALSH, PATRICK C.	STUDIES OF ANDROGEN RECEPTORS IN PROSTATIC CARCINOMA .....	SRC	1R26 CA16924-01	75,744
WARD, PATRICIA S.	HUGH CABOT (1872-1945): A STUDY IN MEDICAL REFORM .....	HLS	5R01 LM02097-02	11,420
WEINBERG, ERIC S.	HISTONE GENES AND THEIR TRANSCRIPTION .....	MBY	1R01 GM22155-01	71,437
WEINER, LESLIE P.	DEMYELINATING DISEASES CAUSED BY VIRUSES .....	VR	5R01 NS08838-06	45,765
WEISFELDT, MYRON I.	VENTRICULAR RELAXATION IN MYOCARDIAL ISCHEMIA .....	CVA	3R01 HL15565-02S1	7,345
WEISFELDT, MYRON I.	VENTRICULAR RELAXATION IN MYOCARDIAL ISCHEMIA .....	CVA	5R01 HL15565-03	79,528
WEISS, LEON P.	ELECTRON MICROSCOPY OF THE RETICULOENDOTHELIAL SYSTEM .....	HBM	5R01 AM11381-15	199,617
WHITE, EMIL H.	STUDY OF CHEMILUMINESCENCE AND BIOLUMINESCENCE .....	MCHA	5R01 GM19488-18	70,148
WHITE, EMIL H.	THE DEAMINATION OF ALIPHATIC AMINES .....	MCHA	1R01 GM21450-01	56,993
WINKELSTEIN, JERRY A.	STUDIES ON HEAT LABILE OPSONIN AND SICKLE CELL DISEASE .....	BM	5R01 AM11637-02	26,219
WONG, SHIH YI.	IN SITU FLUORESCENT PROBES FOR DNA RADIATION DAMAGE .....	BBCA	1R01 GM21146-01A1	35,006
YOUNG, ERIC D.	PROPERTIES OF NEURONS IN THE INFERIOR COLLICULUS .....	CMS	1R01 NS12524-01	35,682
ZIERLER, KENNETH L.	FLUXES ACROSS BIOMEMBRANES AND PEPTIDE HORMONE ACTION .....	PHY	5R01 AM17574-02	87,380
ORGANIZATION TOTAL	262 25,044,320			
SINAI HOSPITAL OF BALTIMORE	ZIP CODE 21215			
FORMAN, SPENCER	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05478-11	39,700

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MARYLAND—Continued</b>				
HAUSWIRTH, JUDITH W.	ROLE OF NUTRITIONAL DEPLETION IN CHEMICAL CARCINOGENESIS	ET	5R01 CA15911-02	28,011
NAIR, PADMANABHAN P.	TRACE LIPIDS IN CELL FUNCTION	MET	5R01 AM02131-18	53,555
NAIR, PADMANABHAN P.	ANIMAL RESEARCH RESOURCE IMPROVEMENTS	AR	1P06 RR00950-01	89,733
SELIGMAN, ARNOLD M.	EXPERIMENTAL AND CLINICAL CANCER CHEMOTHERAPY	ET	5R01 CA02478-21	125,676
SELIGMAN, ARNOLD M.	DRUG DEVELOPMENT FOR PROSTATIC CARCINOMA	SRC	5R26 CA16077-02	101,943
ORGANIZATION TOTAL	6 438,618			
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE—PHS HOSPITAL ZIP CODE 21211</b>				
WARBASSE, J RICHARD	COOPERATIVE STUDY ON THE TREATMENT OF HYPERTENSION	TEC	5R01 HL10716-09	49,153
ORGANIZATION TOTAL	1 49,153			
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND AT BALTIMORE ZIP CODE 21201</b>				
ADAMS, ELIJAH	METABOLISM OF CERTAIN AMINO ACIDS	BIO	5R01 GM11105-13	122,148
ALBUQUERQUE, EDSON X.	MUSCLE REINNERVATION AND NEUROTROPHIC INFLUENCE	NEUB	3R01 NS12063-01S1	21,112
ALBUQUERQUE, EDSON X.	MUSCLE REINNERVATION AND NEUROTROPHIC INFLUENCE	NEUB	5R01 NS12063-02	44,075
APOSHIAN, H VASKEN	USE OF PSEUDOVIRIONS IN DEVELOPING GENE DELIVERY SYSTEMS	GEN	5R01 GM19209-02	77,760
BARRACLOUGH, CHARLES A.	CENTRAL NERVOUS SYSTEM REGULATION OF REPRODUCTION	END	2R01 HD02138-13	95,860
BHALLA, SATISH C.	GENETIC CONTROL OF FILARIASIS VECTORS	TMP	5R22 AI11725-02	48,332
BLACK, LINDSAY W.	PHAGE T4 HEAD ASSEMBLY AND INITIATION OF INFECTION	VR	5R01 AI11676-02	36,851
BROWN, DAVID R.	EFFECT OF LEAD IN THE DEVELOPING NEONATAL RAT BRAIN	TOX	5R01 ES00883-02	16,805
BUCCI, ENRICO	ALLOSTERIC INTERACTIONS OF HUMAN HEMOGLOBIN	BBCB	5R01 HL16278-02	18,765
BULGER, RUTH E.	EVOLUTION OF RENAL ULTRASTRUCTURE AND FUNCTION	PTHA	5R01 AM16236-04	64,581
BUTERBAUGH, GARY G.	NEONATE, ADULT SEIZURE DISCHARGE: MONOAMINE REGULATION	PHRA	1R01 NS12383-01	26,344
BYRON, JOSEPH W.	REGULATION OF THE HEMOPOIETIC STEM CELL	ET	5R01 CA16147-02	53,908
CHANNING, CORNELIA P.	MECHANISM OF LUTEINIZATION IN VITRO AND IN VIVO	REB	5R01 HD08466-02	31,357
CHANNING, CORNELIA P.	THE MECHANISM OF LUTEINIZATION IN VITRO AND IN VIVO	REB	1R01 HD08834-01	75,642
CLYDE, DAVID F.	SUPPORT FOR INTERNATIONAL CENTER FOR MEDICAL RESEARCH	SSS	2R07 AI10049-16	409,042
CORNBLATH, MARVIN	CARBOHYDRATE METABOLISM IN THE NEONATE	MET	2R01 HD03959-07	92,864
CRAMER, ONEIDA M.	NEUROENDOCRINE CORRELATES OF GONADOTROPIN SECRETION	REB	5R01 HD07916-02	34,488
DENNIS, JOHN M.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05379-14	187,174
FALKLER, WILLIAM A, JR.	INHIBITION OF F.POLYMORPHUM HA BY HUMAN GAMMAGLOBULIN	DEN	1R23 DE04161-01	11,617
FISET, PAUL	HUMAN PERINATAL INFECTIONS WITH COXIELLA BURNETI	VR	5R01 AI12018-02	32,188
FRANK, LEONARD H.	SODIUM-MEDIATED TRANSPORT ACROSS BACTERIAL MEMBRANES	MBC	5R01 GM19858-02	24,871
GOLDMAN, LAWRENCE	STUDIES ON ELECTRICAL EXCITATION IN GIANT AXONS	PHY	5R01 NS07734-07	24,388
GREISMAN, SHELDON E.	BACTERIAL ENDOTOXINS IN HUMAN INFECTION	BM	5R01 AI07052-14	4,565
HUANG, SHIH-WEN	MONOCYTE AND T-LYMPHOCYTE RECEPTORS IN MALIGNANCY	PTHB	5R01 CA15611-02	30,611
HYBL, ALBERT	X-RAY CRYSTAL STRUCTURE ANALYSIS OF DIACYL LIPIDS	BBCA	1R01 CA16773-01	27,286
KAPPELMAN, MURRAY M.	INFORMATION NEEDS OF PRACTICING PHYSICIANS	BLR	1R01 LM02456-01	93,359
KESSEL, ROSSLYN W.	A NEW APPROACH TO ORGANIZING BIOMEDICAL KNOWLEDGE	BLR	1R01 LM02457-01	39,451
KINNARD, WILLIAM J, JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	1S01 RR05770-01	16,509
KIRTLEY, MARY E.	STUDY OF GLYCOLYTIC ENZYMES BOUND TO MEMBRANES	BIO	5R01 GM19394-03	32,383
KIRTLEY, MARY E.	DEHYDROGENASE STRUCTURE AND FUNCTION	BIO	5R01 GM20294-02	24,695
KLIMT, CHRISTIAN R.	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	SSS	5R01 AM06876-13	219,300
KLIMT, CHRISTIAN R.	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	TEC	5R01 HL08888-11	687,933
LUDLUM, DAVID B.	MOLECULAR PHARMACOLOGY OF THE NITROSOUREAS	ET	5R01 CA15696-02	50,564
LUDLUM, DAVID B.	MUTAGENIC ALTERATIONS IN NUCLEIC ACID STRUCTURE	BIO	5R01 CA16299-02	50,359
MASON, GEORGE R.	THE ROLE OF LYSOPHOSPHATIDES IN CELL INJURY	SGYB	5R01 GM21396-02	63,692
MAX, STEPHEN R.	METABOLIC ADAPTATION IN REGENERATING SKELETAL MUSCLE	NEUB	1R01 NS11342-01A1	18,420
MIDDLEBROOK, GARDNER	ANTIMICROBIAL ACTIVATION OF MACROPHAGES	BM	5R01 AI12125-02	43,785
MULLINS, LORIN J.	THE ION SELECTIVITY OF THE EXCITABLE MEMBRANE	PHY	5R01 NS05846-09	46,672
NELSON, ERLAND R.	CLINICAL STUDY OF CEREBROVASCULAR DISEASE	NSPA	5P01 NS06779-07	270,934
OZAND, PINAR T.	BIOCHEMISTRY OF ALANINE RELEASE FROM MUSCLE	MET	1R01 AM18127-01	37,825
PINTER, GABRIEL G.	HEART AND KIDNEY CAPILLARY PERMEABILITY IN DIABETES	CVB	5R01 AM17093-02	51,118
PINTER, GABRIEL G.	HYPERTENSION, KIDNEY DISEASE AND RENAL LYMPH.	CVB	1R01 HL17781-01	48,370
POMERANTZ, SEYMOUR H.	TYROSINASES - MECHANISM OF ACTION AND REGULATION	END	5R01 CA07093-13	53,210
PROVENZA, D VINCENT	A HISTO-CYTOCHEMISTRY OF TOOTH DEVELOPMENT	DEN	2R01 DE02800-05A1	47,865
REESE, ERROL L.	GENERAL RESEARCH SUPPORT GRANT	NSS	5R01 RR05317-11	15,969
RICHARDS, RICHARD D.	HISTOCHEMICAL CHANGES IN EXPERIMENTAL CATARACTS	VISA	5R01 EY01292-02	31,820
ROBINSON, EUGENE	RADIATION AND RADIOBIOLOGY RESEARCH CENTER	CAP	3P02 CA06518-11S1	277,930
ROSEN, BARRY P.	BIOENERGETICS OF MICROBIAL MEMBRANE FUNCTIONS	BIO	1R01 GM21648-01	41,062



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MARYLAND—Continued</b>				
SJODIN, RAYMOND A.....	TRACER FLUXES AND NET FLUXES ACROSS CELL MEMBRANES.....	PHY	5R01 NS07626-14	40,292
THOMPSON, VAN P.....	DENTAL RESINS WITH MONOMERS EXPANDING ON POLYMERIZATION.....	DEN	5R01 DE03869-02	41,690
THUT, PAUL D.....	EFFECTS OF L-DOPA ON BRAIN SEROTONIN.....	NEUA	7R01 NS12504-01	27,019
TILDON, J TYSON.....	KETONE METABOLISM IN DEVELOPMENTAL HOMEOSTASIS.....	MET	2R01 HD06291-04	49,887
TRAUB, ROBERT.....	STUDIES OF CERTAIN IMPORTANT GENERA OF SIPHONAPTERA.....	TMP	5R01 A104242-14	92,152
TRUMP, BENJAMIN F.....	SUBCELLULAR REACTION TO INJURY IN THE KIDNEY.....	PTHA	2R01 AM15440-05	90,667
TYSON, GRETA E.....	VINBLASTINE EFFECTS ON CELL STRUCTURE AND FUNCTION.....	CBY	5R01 CA15834-02	15,931
WAECHTER, CHARLES J.....	THE ROLE OF POLYPRENOLS IN BRAIN GLYCOPROTEIN ASSEMBLY.....	PC	1R01 NS12296-01	49,490
YUNG-FENG, CHANG.....	METABOLISM AND INHIBITION OF LYSINE.....	MET	5R01 NS11822-02	21,296
ORGANIZATION TOTAL	57 4,304,443			
<b>BETHESDA</b>				
<b>AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS ZIP CODE 20014</b>				
MANDEL, H GEORGE.....	VI INTERNATIONAL CONGRESS OF PHARMACOLOGY.....	PHRA	1R13 GM22019-01	21,750
ORGANIZATION TOTAL	1 21,750			
<b>ASSOCIATION OF COMMUNITY CANCER CENTERS ZIP CODE 20014</b>				
DONOVAN, JAMES F.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	1P01 CA16037-01	188,398
DONOVAN, JAMES F.....	CLINICAL INVESTIGATION IN CANCER CENTERS.....	CCG	1R18 CA18031-01	96,376
ORGANIZATION TOTAL	2 284,774			
<b>INDIVIDUAL AWARD—BENZINGER, THEODOR H. ZIP CODE 20034</b>				
BENZINGER, THEODOR H.....	MEDICAL PHYSIOLOGY OF TEMPERATURE.....	BCM	1R01 LM02100-01	19,800
ORGANIZATION TOTAL	1 19,800			
<b>MID-ATLANTIC RESEARCH INSTITUTE ZIP CODE 20014</b>				
ZON, GERALD.....	SYNTHESIS OF POTENTIAL CNS ANTITUMOR PRODRUGS.....	MCHB	1R01 CA18366-01	51,069
ORGANIZATION TOTAL	1 51,069			
<b>NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS ZIP CODE 20014</b>				
NEY, W ROGER.....	RADIATION PROTECTION AND MEASUREMENTS.....	RAD	9R01 CA18001-10	45,000
ORGANIZATION TOTAL	1 45,000			
<b>UNIVERSITIES ASSOCIATED FOR RESEARCH AND EDUCATION IN PATHOLOGY ZIP CODE 20014</b>				
CALI, ANN.....	BIOCONTROL OF SCHISTOSOMES BY USE OF MICROSPORIDANS.....	TMP	5R22 AI12409-02	18,106
FINE, BEN S.....	ELECTRON MICROSCOPY IN OCULAR PATHOLOGY.....	VISA	2R01 EY00133-06	52,114
FIRMINGER, HARLAN I.....	ATLAS OF TUMOR PATHOLOGY.....	PTHB	5R01 CA08575-10	112,893
FISHBEIN, WILLIAM N.....	UREASE AND ITS INHIBITORS IN CHEMISTRY AND MEDICINE.....	PHRA	5R01 AM10960-09	40,345
MOSTOFI, FATHOLLAH K.....	HISTOPATHOLOGICAL GRADING OF CARCINOMA OF PROSTATE.....	SRC	5R26 CA15798-02	40,363
THEROS, ELIAS G.....	RADIOLOGIC ONCOLOGY TEACHING MATERIALS DEVELOPMENT.....	SSS	5R01 CA15413-02	106,454
TSO, MARK O.....	PATHOLOGY AND PATHOGENESIS OF EDEMA OF THE OPTIC DISC.....	VISA	5R01 EY01163-03	43,835
WISSLER, ROBERT W.....	SUPPORT FOR REGISTRY OF COMPARATIVE PATHOLOGY.....	AR	5R01 RR00301-10	146,145
ZIMMERMAN, LORENZ E.....	IMPROVED DIAGNOSIS AND THERAPY IN OPHTHALMOLOGY.....	VISA	1R01 EY01386-01	79,624
ORGANIZATION TOTAL	9 639,879			
<b>CATONSVILLE</b>				
<b>MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE ZIP CODE 21228</b>				
BLACK, PERRY.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05546-13	53,699
ORGANIZATION TOTAL	1 53,699			
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND BALTIMORE COUNTY CAMPUS ZIP CODE 21228</b>				
CRAIG, NESSLY C.....	REGULATION OF THE PRODUCTION OF MAMMALIAN RIBOSOMES.....	MBY	5R01 GM19378-03	29,985
GETHMANN, RICHARD C.....	GENETIC CONTROL OF THE MEIOTIC PROCESS.....	GEN	1R01 GM22050-01	37,141
HAYS, JOHN B.....	PROTEIN/MEMBRANE FUNCTION DURING SUGAR TRANSPORT.....	PC	5R01 GM20211-02	25,587
POLLACK, RALPH M.....	MODELS FOR SCHIFF BASE ENZYMES.....	MCHA	5R01 GM20188-02	31,677
RADIN, BERNARD M.....	ELECTROPHYSIOLOGICAL STUDIES OF FOOD INTAKE.....	EXP	1R01 NS12203-01	20,539
ROTH, THOMAS F.....	SELECTIVE PROTEIN UPTAKE IN DEVELOPING OOCYTES.....	CBY	1R01 HD09549-01	32,638

**Table 2.— NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MARYLAND—Continued</b>				
STEINER, ROBERT F.....	CONFORMATIONAL TRANSITIONS OF ALLOSTERIC ENZYMES.....	BBCA	5R01 AM16688-03	40,363
VINCENT, JAMES S.....	PAC AND EPR STUDIES OF METALLOENZYME STRUCTURE.....	BBCB	5R01 AM17176-02	36,191
VITULLO, VICTOR P.....	CARBOXYLATE ION CATALYSIS AND LYSOZYME.....	SSS	1R01 GM21933-01	39,657
WHALEN, DALE L.....	NONENZYMATIC REACTIONS OF HIGHLY REACTIVE EPOXIDES.....	MCHA	1R01 CA17278-01	31,223
ORGANIZATION TOTAL	10	325,001		
<b>COLLEGE PARK</b>				
UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND COLLEGE PARK CAMPUS		ZIP CODE 20742		
AMMON, HERMAN L.....	CONFORMATIONAL ANALYSIS OF THYROID HORMONE ANALOGS.....	BBCB	5R01 AM17458-02	23,967
BRINKLEY, HOWARD J.....	FUNCTIONING OF CORPORA LUTEA.....	REB	2R01 HD00739-10	49,166
COLWELL, RITA R.....	DATA PROCESSING APPLIED TO ECOLOGY OF ORAL FLORA.....	DEN	5R01 DE03674-02	53,621
HAMLET, SANDRA L.....	PHYSIOLOGICAL STUDY OF SPEECH ADAPTATION.....	CMS	5R01 DE03631-02	16,620
HENERY-LOGAN, KENNETH R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07042-10	36,251
HODOS, WILLIAM.....	A BEHAVIORAL ANALYSIS OF VISUAL SYSTEM EVOLUTION.....	EXP	5R01 EY00735-05	64,757
HOLMLUND, CHESTER E.....	EFFECT OF HYPOCHOLESTEREMIC COMPOUNDS ON METABOLISM.....	MET	5R01 HL12533-07	51,936
MC INTIRE, ROGER W.....	BEHAVIORAL EFFECTS OF CARBON MONOXIDE EXPOSURE.....	EXP	2R01 ES00757-03	47,177
MENZER, ROBERT E.....	ANIMAL METABOLISM OF PLANT CONJUGATES OF PESTICIDES.....	SSS	5R01 ES00121-10	34,241
SISLER, HUGH D.....	MECHANISM OF ACTION AND METABOLISM OF FUNGICIDES.....	BM	2R01 AI00225-23	40,957
STEINMAN, ROBERT M.....	STIMULUS VARIABLES IN MONOCULAR FIXATION.....	VISB	5R01 EY00325-10	61,019
STERNHEIM, CHARLES E.....	SPATIAL AND TEMPORAL INTERACTIONS IN HUMAN VISION.....	VISB	5R01 EY00539-05	40,600
ZAJAC, FELIX E, III.....	EXPERIMENT & OPTIMAL CONTROL TO STUDY ANIMAL MOVEMENT.....	AFY	1R01 NS11971-01A1	55,993
ORGANIZATION TOTAL	13	576,305		
<b>ROCKVILLE</b>				
AMERICAN TYPE CULTURE COLLECTION		ZIP CODE 20852		
MEYER, SALLY A.....	MOLECULAR APPROACHES TO THE TAXONOMY OF YEASTS.....	BM	2R01 GM19240-04	53,923
ORGANIZATION TOTAL	1	53,923		
<b>SILVER SPRING</b>				
INSTITUTE FOR BEHAVIORAL RESEARCH		ZIP CODE 20910		
PARSONS, H MC ILVAINE.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05636-09	55,266
TAUB, EDWARD.....	FETAL ORIGINS OF PRIMATE SENSORY-MOTOR INTEGRATION.....	EXP	5R01 HD08579-02	76,273
ORGANIZATION TOTAL	2	131,539		
JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY		ZIP CODE 20910		
KIM, BORIS F.....	HIGH RESOLUTION SPECTROSCOPY OF PORPHYRINS.....	BBCB	1R01 GM21897-01	59,796
ORGANIZATION TOTAL	1	59,796		
STATE TOTAL	371	32,217,988		
<b>MASSACHUSETTS</b>				
<b>AMHERST</b>				
AMHERST COLLEGE		ZIP CODE 01002		
FINK, RICHARD D.....	PRECISION PRODUCTION OF ORGANIC TRACERS.....	RAD	5R01 GM13966-08	29,765
GEORGE, STEPHEN A.....	VISION IN TRIPLOID ANIMALS.....	VISB	1R01 EY01662-01	10,111
GIFFORD, PROSSER.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07110-08	25,934
HEXTER, WILLIAM M.....	GENETIC FINE STRUCTURE IN DROSOPHILA.....	GEN	3R01 GM15941-16S1	6,625
KIDDER, GEORGE W.....	METABOLIC STUDIES ON ANIMAL MICROORGANISMS.....	TMP	2R01 AM01005-23	37,345
KIDDER, GEORGE W.....	SYNTHESIS AND TESTING OF METABOLIC ANALOGS.....	ET	3R01 CA02924-18S1	556
KIDDER, GEORGE W.....	SYNTHESIS AND TESTING OF METABOLIC ANALOGS.....	TMP	2R01 CA02924-19	33,086
KROPP, ALLEN.....	PHOTOCHEMISTRY OF THE VISUAL PIGMENTS.....	SSS	2R01 EY00201-14	58,568
WAGGONER, ALAN S.....	EARLY MOLECULAR EVENTS IN VISUAL EXCITATION.....	BBCA	2R01 EY00930-04	24,534

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
WAGGONER, ALAN S.	OPTICAL PROBES OF NERVE EXCITATION.....	BBCA	2R01 NS10489-04	53,119
ZIMMERMAN, WILLIAM F.	BIOCHEMISTRY OF VISUAL CELL RENEWAL AND VISUAL CYCLES.....	VISB	5R01 EY00675-05	50,178
ORGANIZATION TOTAL	11 329,821			
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS AT AMHERST ZIP CODE 01002</b>				
ARBIB, MICHAEL A.	INFORMATION PROCESSING IN THE BRAIN.....	COM	5R01 NS09755-06	92,222
BEAN, JOAN P.	IMPOSED AND INDUCED LEARNING ACTIVITIES OF CHILDREN.....	DBR	5R01 HD06457-03	20,504
BLACK, DONALD L.	NEURAL-ENDOCRINE CONTROL OF THE OVIDUCT.....	REB	2R01 HD06788-04	30,350
BRANDTS, JOHN F.	FREE ENERGY OF FOLDING OF GLOBULAR PROTEINS.....	BBCB	2R01 GM11071-13	66,780
BRANDTS, JOHN F.	STRUCTURAL STUDIES OF THE HUMAN ERYTHROCYTE MEMBRANE.....	BBCB	1R01 HL17878-01	57,702
CAMERINO, PAT W.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07048-10	50,841
CANALE-PAROLA, ERCOLE	SPIROCHETES INDIGENOUS TO HUMANS.....	BM	1R01 AI12482-01	54,423
CARPINO, LOUIS A.	NEW AMINO-PROTECTING GROUPS.....	MCHA	5R01 GM09706-10	32,280
CHIEN, JAMES C.	METAL AND LIGAND BINDINGS IN HEMOPROTEINS AND ENOLASE.....	BBCB	2R01 HL14270-04	50,232
COX, C. D.	CULTIVATION OF VIRULENT TREPONEMA PALLIDUM.....	BM	5R01 AI10982-03	46,062
EDINGTON, DEE W.	HEART MITOCHONDRIA IN AGING AND TRAINED MALE RATS.....	AFY	1R01 HL17939-01	13,600
FOURNIER, MAURILLE J., JR.	BIOSYNTHESIS OF TRANSFER RIBONUCLEIC ACID.....	PC	2R01 GM19351-04	50,427
HAGEDORN, HENRY H.	CONTROL OF REPRODUCTION IN THE MOSQUITO.....	TMP	5R01 AI11909-02	24,641
HALPERN, JOEL M.	EXTENDED FAMILY HOUSEHOLDS AND DEMOGRAPHIC TRANSITION.....	POP	1R01 HD08883-01	41,220
HOLMES, ROBERT R.	PHOSPHATE MODEL FOR RIBONUCLEASE ACTION.....	MCHB	1R01 GM21466-01	41,466
HOWE, GEORGE R.	PHYSIOLOGY OF THE MAMMALIAN OVIDUCT.....	REB	5R01 HD04189-06	19,358
KUNKEL, JOSEPH G.	CONTROL OF COCKROACH DEVELOPMENT.....	TMP	5R01 AI11269-02	15,993
LESSIE, THOMAS G.	ALLOSTERIC MECHANISMS IN PSEUDOMONAS CATABOLISM.....	MCB	3R01 GM21198-07S1	1,947
LEVIN, BRUCE R.	PROTEIN VARIATION AND SELECTION MECHANISMS IN E. COLI.....	GEN	5R01 GM19848-03	31,104
MARCUM, JAMES B.	EXPERIMENTAL INDUCTION OF FREEMARTINISM IN THE EWE.....	HED	1R01 HD08534-01	29,425
MASON, THOMAS L.	A GENETIC APPROACH TO MEMBRANE ASSEMBLY.....	MCB	5R01 GM20909-02	38,418
MORTLOCK, ROBERT P.	THE EVOLUTION OF ENZYMATIC ACTIVITIES.....	MCB	5R01 AI06848-10	32,266
MOUNT, MARK S.	INVOLVEMENT OF BACTERIAL RNA POLYMERASE IN CROWN GALL.....	BIO	5R01 CA14674-03	14,920
PARSONS, PETER P.	MITOCHONDRIAL PROTEIN SYNTHESIS AND AUTONOMY.....	BIO	1R01 GM19763-01	28,173
PRICE, FRASER P.	TRANSFORMATION KINETICS IN MESOPHASES.....	BBCB	2R01 HL13188-06	33,790
ROBERTS, LARRY S.	GROWTH PHYSIOLOGY OF CESTODES.....	TMP	5R01 AI06153-12	37,658
SCHNEIDER, DONALD L.	ENZYMES LINKING BIOENERGY TO CATABOLISM IN LYSOSOMES.....	BIO	1R01 GM21260-01	36,401
SEVOIAN, MARTIN.	DEFENSE MECHANISMS TO MAREK'S DISEASE.....	VR	3R01 CA13272-03S1	10,718
STOFFOLANO, JOHN G., JR.	EFFECT OF AGING ON CHEMORECEPTOR SENSILLA.....	TMP	5R01 HD07033-03	24,544
STRICKLAND, BONNIE R.	LOCUS OF CONTROL, ASPIRATION & COMPETENCE IN CHILDREN.....	DBR	5R01 HD08952-02	20,080
SWEDLUND, ALAN C.	FERTILITY & MIGRATION TRENDS IN RURAL NEW ENGLAND.....	POP	5R01 HD08979-02	37,539
WADE, GEORGE N.	HORMONES, BRAIN FUNCTION, AND BEHAVIOR.....	END	5R01 NS10873-03	29,282
WESTHEAD, EDWARD W., JR.	MOLECULAR BASIS OF ASPARTOKINASE FEEDBACK CONTROL.....	BIO	5R01 AM11157-09	46,508
WESTHEAD, EDWARD W., JR.	DIVALENT CATIONS IN ENOLASE AND OTHER BIOLOGICAL SYSTEMS.....	BIO	5R01 GM14945-09	42,156
WILKIE, RICHARD W.	A POPULATION STUDY OF RURAL MIGRANTS IN URBAN AREAS.....	POP	5R01 HD07397-03	36,132
WYSE, GORDON A.	PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM.....	PHY	5R01 NS08869-05	36,920
YAUKEY, DAVID	REPRODUCTIVE TIME LOST THROUGH MARITAL DISSOLUTION.....	POP	1R01 HD07943-01	24,509
ORGANIZATION TOTAL	37 1,300,591			
<b>BELMONT</b>				
<b>MASSACHUSETTS GENERAL HOSPITAL—MCLEAN HOSPITAL DIVISION ZIP CODE 02178</b>				
DE MARNEFFE, FRANCIS	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05484-13	68,410
HAUSER, GEORGE	BIOCHEMISTRY OF INOSITOL AND PHOSPHOINOSITIDES.....	BIO	2R01 NS06399-07A2	47,704
HAUSER, GEORGE	GLYCOLIPID METABOLISM AND FUNCTION IN NERVOUS TISSUE.....	PC	2R01 NS09866-04A1	34,618
LEES, MARJORIE B.	RELATIONSHIP BETWEEN BRAIN PROTEINS AND LIPIDS.....	NEUB	5R01 NS07136-09	90,788
SHASHOUA, VICTOR E.	BRAIN RNA METABOLISM AND THE BIOCHEMISTRY OF LEARNING.....	NEUA	5R01 NS09407-03	57,871
SHASHOUA, VICTOR E.	ACID SOLUBLE SYNAPTOSOMAL PROTEINS.....	NEUA	1R01 NS11712-01A1	43,712
ORGANIZATION TOTAL	6 343,103			
<b>BOSTON</b>				
<b>BETH ISRAEL HOSPITAL ZIP CODE 02215</b>				
BING, OSCAR H.	COMPUTER FEEDBACK STUDY OF CARDIAC MUSCLE MECHANICS.....	CVA	7R01 HL18338-01	36,077



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
EPSTEIN, FRANKLIN H.....	WATER AND ELECTROLYTES IN HEALTH AND DISEASE.....	GMB	9R01 AM18078-03	126,703
FREEDBERG, IRWIN M.....	STUDIES OF EPIDERMAL MACROMOLECULAR METABOLISM.....	GMA	5R01 AM16262-03	90,226
FROMM, DAVID G.....	GASTRIC MUCOSAL PERMEABILITY AND ION TRANSPORT.....	GMA	1R01 AM17919-01	63,691
GLICKMAN, ROBERT M.....	CHYLOMICRONS—FORMATION, STRUCTURE AND FUNCTION.....	MET	7R01 AM18911-01	78,057
GOLDMAN, PETER.....	CARCINOGEN METABOLISM BY HOST INTESTINAL BACTERIA.....	BM	5R01 CA15260-02	51,035
INGBAR, SIDNEY H.....	NORMAL AND DISORDERED THYROID HORMONE ECONOMY.....	SSS	7R01 AM18416-01	304,778
KIMBERG, DANIEL V.....	EFFECT OF HORMONES ON CALCIUM ABSORPTION.....	GMB	3R01 AM13696-06S1	12,796
KLEIN, LESTER A.....	RENAL FUNCTION IN SHOCK, ADRENERGIC AGENT'S EFFECTS.....	SGYA	1R01 GM21855-01	25,728
RABKIN, MITCHELL T.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05479-13	126,528
ROBINSON, STEPHEN H.....	ORIGIN AND FATE OF BILE PIGMENTS.....	HEM	5R01 AM09834-10	99,781
ROBINSON, STEPHEN H.....	FACTORS REGULATING HEMOPOIETIC CELL DIFFERENTIATION.....	HEM	5R01 AM17148-02	63,323
ROSENBERG, ROBERT D.....	HYPERCOAGULABILITY AND ASSAYS FOR ITS DETECTION.....	HEM	1R01 HL17533-01	153,051
SALZMAN, EDWIN W.....	PROGRAM PROJECT IN THROMBOSIS AND ATHEROSCLEROSIS.....	HEP	5P01 HL11414-08	308,811
SCHNEIDER, PETER B.....	CONTROL OF PHOSPHOLIPID METABOLISM.....	END	3R01 AM10733-07S1	2,670
SCHNEIDER, PETER B.....	CONTROL OF PHOSPHOLIPID METABOLISM.....	END	5R01 AM10733-09	43,384
SILEN, WILLIAM.....	G I MUCOSAL BARRIER IN HEALTH AND SURGICAL DISEASE.....	SGYA	5R01 AM15681-04	108,428
WILKINSON, HAROLD A.....	BRAIN TUMOR CHEMOTHERAPY WITH SEMIPERMEABLE MEMBRANES.....	ET	5R01 CA13897-03	29,482
ZERVAS, NICHOLAS T.....	CLINICAL TREATMENT OF POST-SURGICAL VASOCONSTRICTION.....	SGYB	5R01 HL15365-03	81,107
ZERVAS, NICHOLAS T.....	BRAIN CATECHOLAMINES IN CEREBRAL VASCULAR OCCLUSION.....	NEUA	1R01 NS11587-01A1	55,303
ZIMMERMAN, CLARENCE E.....	ACTIVE ENHANCEMENT OF RENAL AND ISLET CELL ALLOGRAFTS.....	SGYA	5R01 AM15606-04	27,826
ORGANIZATION TOTAL	21		1,888,785	
<b>BOSTON BIOMEDICAL RESEARCH INSTITUTE ZIP CODE 02114</b>				
BALAZS, ENDRE A.....	HYALURONIC ACID IN EXPERIMENTAL ARTHRITIS.....	GMA	1R01 AM18279-01	63,918
BALAZS, ENDRE A.....	THE PHYSIOLOGY AND PATHOLOGY OF THE VITREOUS.....	VISA	3R01 EY00223-13S1	98,261
DAVISON, PETER F.....	NEUROFILAMENT PROTEIN: CHARACTERISTICS AND FUNCTION.....	CBY	1R01 NS11122-01A1	111,813
DAVISON, PETER F.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05711-05	127,842
ELZINGA, MARSHALL.....	STRUCTURE-FUNCTION STUDIES ON ACTIN AND MYOSIN.....	PC	9R01 HL17464-04	100,153
GERGELY, JOHN.....	BIOCHEMISTRY OF MUSCLE CONTRACTION.....	BBCB	3R01 HL05949-14S1	9,935
GERGELY, JOHN.....	BIOCHEMISTRY OF MUSCLE CONTRACTION.....	BBCB	2R01 HL05949-15	127,517
IKEMOTO, NORIAKI.....	STRUCTURE AND FUNCTION OF SARCOPLASMIC RETICULUM.....	PHY	5R01 AM16922-03	56,902
JACOBSON, BERNARD J.....	ROLE OF HYALOCYTES IN VITREOUS METABOLISM.....	VISA	5R01 EY00810-02	59,885
JULIAN, FRED J.....	CONTRACTILITY IN HEART AND OTHER STRIATED MUSCLES.....	PHY	5R01 HL16606-08	85,160
LEHRER, SHERWIN S.....	FLUORESCENCE STUDIES OF MUSCLE PROTEIN INTERACTIONS.....	BBCB	5R01 AM11677-08	69,560
SANADI, D RAO.....	STUDIES ON OXIDATIVE PHOSPHORYLATION.....	BIO	5R01 GM13641-10	153,327
SANADI, D RAO.....	STUDY OF METABOLIC AND MOLECULAR CHANGES IN AGING.....	HDAG	5P01 HD05970-04	239,235
SARKAR, SATYAPRIYA.....	BIOSYNTHESIS OF CARDIAC AND SKELETAL MUSCLE PROTEINS.....	PC	2R01 AM13238-07	76,693
SEIDEL, JOHN C.....	NUCLEOTIDE-INDUCED CHANGES OF CONFORMATION IN MYOSIN.....	BBCB	5R01 HL15391-03	62,940
WRIGHT, BARBARA E.....	PHYSIOLOGICAL CONTROL OF DIFFERENTIATION.....	PC	9R01 AG00260-08	72,167
WRIGHT, BARBARA E.....	KINETIC MODELING OF RAT LIVER AND MORRIS TUMORS.....	PTHB	5R01 CA15567-02	106,174
WRIGHT, BARBARA E.....	COMPUTER ANALYSIS OF DIFFERENTIATION.....	PC	2R01 HD04667-06	60,358
ORGANIZATION TOTAL	18		1,681,840	
<b>BOSTON HEALTH AND HOSPITALS DEPARTMENT ZIP CODE 02118</b>				
SHERMAN, DAVID S.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05569-11	112,037
ORGANIZATION TOTAL	1		112,037	
<b>BOSTON HEALTH AND HOSPITALS DEPARTMENT—BOSTON CITY HOSPITAL ZIP CODE 02118</b>				
FINE, JACOB.....	ROLE OF THE PLATELET IN ENDOTOXEMIA.....	SGYB	1R01 HL17696-01	40,000
KUPCHIK, HERBERT Z.....	TUMOR MARKERS IN HUMAN ASCITES.....	SRC	1R26 CA18466-01	57,110
REIF, ARNOLD E.....	EXPERIMENTAL STUDIES ON IMMUNITY TO CANCER CELLS.....	IMB	5R01 CA15952-02	70,111
REIF, ARNOLD E.....	IMPROVEMENT OF ANIMAL CARE FACILITIES.....	AR	1P06 RR00838-01	15,000
SULLIVAN, LOUIS W.....	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE.....	SRC	5P18 HL15157-04	712,703
TISHLER, PETER V.....	GONOSOMAL ANEUPLOIDY IN CITY HOSPITAL POPULATIONS.....	GEN	1R01 GM22750-01	23,978
WHITCOMB, MICHAEL E.....	ALVEOLAR MACROPHAGE FUNCTION IN CELLULAR IMMUNITY.....	YIP	1R23 HL18347-01	39,126
ZAMCHECK, NORMAN.....	STUDY OF PATHOLOGY OF DIGESTIVE-TRACT MUCOUS MEMBRANE.....	CAP	5P01 CA04486-16	260,476
ORGANIZATION TOTAL	8		1,218,504	
<b>BOSTON HOSPITAL FOR WOMEN ZIP CODE 02115</b>				
FRANTZ, IVAN D, II.....	CONTROL OF THE RATE AND DEPTH OF RESPIRATION IN INFANCY.....	SRC	1R23 HL18341-01	38,475

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
ORGANIZATION TOTAL	1	38,475		
<b>BOSTON UNIVERSITY</b>	<b>ZIP CODE 02215</b>			
ALBERT, ARTHUR	SCREENING AND CERVICAL CANCER: A MATHEMATICAL MODEL	CCG	1R18 CA17807-01	48,546
ALEXANDER, EDWARD A.	HYPERTENSION, SHOCK AND EDEMA: RENAL ASPECTS	CVB	1R01 HL17458-01	121,030
ANAPOLLE, STEVEN E.	MICROVASCULAR LESIONS OF BUCCAL AND GINGIVAL TISSUE	DEN	9R01 AM18280-04	31,085
ARMSTRONG, ROBERT B.	LOCOMOTION IDLING METABOLISM & GAIT DYNAMICS	AFY	1R01 AM18123-01	66,383
BENNETT, MICHAEL	IMMUNOBIOLOGY AND TREATMENT OF VIRAL LEUKEMIA	VR	5R01 CA15369-02	42,187
BENNETT, MICHAEL	CARDIAC ALLOGRAFTS IN AUTOLOGOUS RADIATION CHIMERAS	IMB	1R01 HL18186-01	48,793
BERMAN, HERBERT J.	THROMBOEMBOLISM IN LIVING BLOOD VESSELS	HEM	3R01 HL00902-23S1	31,826
BERMAN, HERBERT J.	THROMBOEMBOLISM IN LIVING BLOOD VESSELS	HEM	2R01 HL00902-24	100,766
BERMAN, MARLENE O.	NORMAL AND PATHOLOGICAL HUMAN BRAIN FUNCTION	EXP	5R01 NS10577-03	14,581
BRECHER, PETER I.	MECHANISM OF ANGIOTENSIN ACTION ON TARGET TISSUES	CVB	2R01 HL14358-04	44,812
BRITMAN, SELWYN A.	DIET MICROFLORA AND INDUCTION OF COLONIC CARCINOMA	SRC	1R26 CA16750-01A1	62,114
CHAPPELL, PATRICIA F.	INFANT CONTROL OF CARETAKER BEHAVIOR	DBR	1R01 HD09205-01	42,486
CHATTORAJ, SATI C.	CORTICOSTEROIDS IN THE FETOPLACENTAL UNIT	HED	5R01 HD06795-02	39,264
CHOBANIAN, ARAM V.	ARTERIAL METABOLISM, DIABETES, AND ATHEROGENESIS	MET	5R01 HL12869-06	84,640
CLARKE, RICHARD H.	CARCINOGEN-DNA COMPLEXES: STRUCTURE AND INTERACTIONS	BBCA	1R01 CA17922-01	53,057
COHEN, ALAN S.	SYNOVIAL MEMBRANE AND RELATED CONNECTIVE TISSUES	GMA	3R01 AM04599-14S1	13,371
COHEN, ALAN S.	SYNOVIAL MEMBRANE AND RELATED CONNECTIVE TISSUES	GMA	5R01 AM04599-15	140,294
COOPERBAND, SIDNEY R.	LYMPHOCYTE PROLIFERATION INHIBITORY FACTOR	ALY	2R01 CA12209-04	87,459
COOPERBAND, SIDNEY R.	A SERUM IMMUNOSUPPRESSIVE FACTOR IN CANCER	ALY	5R01 CA15129-02	64,087
CORWIN, LAURENCE M.	BIOLOGICAL ROLE OF VITAMIN E IN CELL CULTURE	NTN	5R01 AM14508-06	34,285
COUSER, WILLIAM G.	IMMUNOLOGIC MECHANISM OF GLOMERULAR INJURY	PTHA	5R01 HL1722-02	34,518
DAWBER, THOMAS R.	THE EPIDEMIOLOGY OF STROKE	EDC	5R01 NS09695-05	102,592
EL-BERMANI, AL-WALID I.	STUDIES ON THE INNERVATION OF THE LUNG	PTHA	2R01 HL14524-05	37,909
ESSIG, ALVIN	OPTICAL STUDY OF MEMBRANE PERMEABILITY AND ENERGETICS	PHY	1R01 AM17817-01	32,296
FEINGOLD, DAVID S.	ANTIMICROBIAL AGENTS AND THE CELL SURFACE	MBG	1R01 AI12679-01	59,657
FILIOS, LOUIS C.	DIETARY HEPATIC LIPODYSIS AND PROTEIN SYNTHESIS	NTN	3R01 HL12998-05S1	5,648
FINE, RICHARD E.	ACTION AND OTHER FILAMENTS IN THE GROWING NEURON	CBY	5R01 NS10582-03	43,815
FINEBERG, SAMUEL E.	DECREASED INSULIN SENSITIVITY IN DIABETES MELLITUS	MET	5R01 AM16896-02	40,062
FOSTER, JUDITH A.	ELASTIN STRUCTURE AND DISEASE	BBCB	5R01 HL15964-03	35,343
FRANZBLAU, CARL	STUDIES ON THE CHEMISTRY OF ELASTIN	PC	5R01 AM07697-12	51,405
FRANZBLAU, CARL	LUNG ELASTIC TISSUE	SSS	1R01 HL17415-01	16,019
GAENSLER, EDWARD A.	APPLIED PULMONARY PHYSIOLOGY	SGYA	5R01 HL05933-16	32,472
GAENSLER, EDWARD A.	SUPPORT FOR CENTER FOR LUNG DISEASE	SRC	5P17 HL15063-04	426,800
GOODGLASS, HAROLD	APHASIA RESEARCH PROGRAM	NSPA	5P01 NS06209-10	168,718
GORMAN, ANTHONY L.	IONIC AND METABOLIC BASIS OF VISUAL RESPONSES	VISB	5R01 EY01157-02	65,179
GRASSO, JOSEPH A.	STUDIES IN RBC DIFFERENTIATION	HEM	2R01 AM15403-04	55,284
HARTMAN, STANDISH C.	ENZYMES OF GLUTAMINE METABOLISM	BIO	5R01 CA11161-07	41,213
HERRMANN, ROBERT L.	PHOSPHOPROTEINS AND PHOSPHORYLATING ENZYMES IN NEOPLASIA	BIO	5R01 CA15683-02	32,676
HOLLANDER, WILLIAM	ROLE OF THE ARTERIAL WALL IN ATHEROSCLEROSIS	HEP	5P01 HL13262-03	686,428
JACKSON, BENJAMIN T.	STUDIES IN EXPERIMENTAL ERYTHROBLASTOSIS FETALIS	HED	5R01 HD01385-10	76,941
JENKINS, C. DAVID	BEHAVIORAL FACTORS IN CORONARY HEART DISEASE	SSS	5R01 HL15399-03	98,454
KIBRICK, SIDNEY	DIABETES MELLITUS; ROLE OF COXSACKIEVIRUS B INFECTION	PTHA	5R01 AM17202-02	53,707
KIBRICK, SIDNEY	IMMUNOLOGIC & BIOPHYSICAL STUDIES OF CERVICAL CARCINOMA	PTHB	5R01 CA13397-04	146,280
KUBZANSKY, PHILIP E.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07043-10	34,981
LANG, FREDERICK	NEUROTROPIC INFLUENCES ON DEVELOPING MUSCLE	PHY	5R01 NS11481-02	20,187
LAURSEN, RICHARD A.	STRUCTURE AND FUNCTION OF HUMAN PLASMIN	BIO	5R01 HL15535-03	37,334
LAVKER, ROBERT M.	MEMBRANE BOUND GRANULES OF THE EPIDERMIS	PTHB	3R01 AM14693-04S1	18,914
LEHMAN, WILLIAM J.	REGULATION OF MUSCULAR CONTRACTION: A COMPARATIVE STUDY	PHY	3R01 AM17062-01S1	600
LEHMAN, WILLIAM J.	REGULATION OF MUSCULAR CONTRACTION: A COMPARATIVE STUDY	PHY	5R01 AM17062-02	51,394
LEIBOWITZ, HOWARD M.	STUDIES IN CORNEAL TRANSPLANTATION	VISA	2R01 EY00544-06	73,315
LESSELL, SIMMONS	EXPERIMENTAL OPTIC NEUROPATHIES	VISA	5R01 EY00013-09	73,130
LEVINSKY, NORMAN G.	HYPOTENSION, RENAL ISCHEMIA AND EFFECT OF MANNITOL	CVB	1R01 HL18313-01	131,997
LIANG, CHANG-SENG	METABOLIC CONTROL OF CARDIAC OUTPUT	CVA	1R01 HL17403-01	45,737
LOWENSTEIN, LEAH M.	A NEW CYCLE FOR AMMONIA PRODUCTION IN THE KIDNEY	GMB	5R01 AM17713-02	50,396
MANNICK, JOHN A.	CLINICAL AND LABORATORY STUDIES IN CELLULAR IMMUNITY	AMP	5P01 AM10824-09	179,118
MATOLTSY, ALEXANDER G.	CHEMISTRY OF KERATINS AND THEIR PRECURSORS	GMA	5R01 AM05924-15	102,436
MIRSKY, ALLAN F.	NEUROBEHAVIORAL STUDIES IN PETIT MAL EPILEPSY	EXP	1R01 NS12201-01	61,419

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
MONETTE, FRANCIS C.....	CELL CYCLE STUDIES OF HEMATOPOIETIC PROGENITOR CELLS.....	HEM	5R01 AM17735-02	34,994
MOULTEN, FREDERICK L.....	ONCOLYSIS BY ANTIBODY-TOXIN CONJUGATES.....	IMB	5R01 CA12404-05	64,275
MOZDEN, PETER J.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA18019-01	187,920
O'MEARA, ANN R.....	AGE-RELATED CHANGES IN CHROMATIN PROTEINS.....	BIO	5R01 HD08350-02	46,260
O'SULLIVAN, JOHN B.....	QUARTER CENTURY FOLLOW-UP OF THE OXFORD STUDY.....	EDC	5R01 HL16662-02	64,952
OPPENHEIM, FRANK G.....	STUDIES ON PROLINE-RICH SALIVARY PROTEINS.....	PC	2R01 DE03433-04	64,467
PARLEE, MARY B.....	SIGNIFICANCE OF MENSTRUATION FOR ADOLESCENT FEMALES.....	POP	1R01 HD09630-01	38,833
PETERS, ALAN.....	STRUCTURE AND ORGANIZATION OF THE CEREBRAL CORTEX.....	NEUA	2R01 NS07016-09	66,277
POLITOFF, ALBERTO L.....	REGULATION OF TUMOR GROWTH BY TRANSMEMBRANE POTENTIAL.....	CBY	1R01 CA16778-01	90,086
POLITOFF, ALBERTO L.....	BIO-ASSAY OF NERVE TROPIC SUBSTANCES.....	PHY	5R01 NS11588-02	22,659
ROSENBERG, ISADORE N.....	IODINE METABOLISM OF THE THYROID GLAND.....	MET	5R01 RR00585-17	95,966
RYAN, N THOMAS.....	CHRONIC ALTERATIONS IN TISSUE METABOLISM AFTER SHOCK.....	MET	1R01 GM21037-01A1	54,295
RYSER, HUGUES J.....	PENETRATION OF MACROMOLECULES INTO MAMMALIAN CELLS.....	CBY	5R01 CA14551-03	57,404
SANDSON, JOHN.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER FOR ADULTS.....	CLR	5M01 RR00533-07	589,388
SANDSON, JOHN I.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05380-14	255,345
SCHMID, KARL.....	CHEMISTRY OF HUMAN PROTEINS AND GLYCOPROTEINS.....	PC	5R01 GM10374-13	115,607
SHEPRO, DAVID.....	CALCIUM FLUX IN PLATELET MEMBRANES.....	HEM	5R01 HL15503-02	37,048
SIMONS, ELIZABETH R.....	THE NATURE OF THE COLLAGEN-PLATELET INTERACTION.....	HEM	5R01 HL15335-03	30,983
SIMONS, ELIZABETH R.....	INVESTIGATION OF HBS TACTOID FORMATION.....	HEM	1R01 HL16375-01A1	62,160
SINEX, F MAROTT.....	AGING IN CONNECTIVE TISSUE, BRAIN AND AUDITORY SYSTEM.....	HDAG	9P01 AG00001-04	227,499
SMALL, DONALD M.....	PHYSICAL CHEMISTRY OF BIOLOGICALLY ACTIVE LIPIDS.....	MET	5R01 AM11453-08	265,368
ULLRICK, WILLIAM C.....	STUDIES ON Z-DISCS FROM HEART AND SKELETAL MUSCLE.....	CVA	3R01 HL15462-02S1	11,364
ULLRICK, WILLIAM C.....	STUDY OF Z-DISCS FROM HEART AND SKELETAL MUSCLES.....	CVA	5R01 HL15462-03	101,591
WARR, WILLIAM B.....	THE STRUCTURE AND PROJECTIONS OF THE COCHLEAR NUCLEI.....	CMS	5R01 NS07720-08	36,036
WELLS, HERBERT.....	ORAL CARCINOGENIC ACTIONS OF BETEL NUT AND TOBACCO.....	ET	5R01 DE03565-02	77,453
WELLS, HERBERT.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05703-06	31,114
WILLIAMS, LESTER F, JR.....	ROLE OF THE GALL BLADDER IN PATHOGENESIS OF GALLSTONES.....	SGYA	2R01 AM15304-04A1	117,367
WOTIZ, HERBERT.....	METABOLISM OF A LONG ACTING ORAL CONTRACEPTIVE.....	END	1R01 HD07980-01A1	47,303
WOTIZ, HERBERT H.....	DETERMINATION OF HORMONE DEPENDENCY OF CANCER TISSUE.....	END	1R01 CA16530-01	39,477
ZURIF, EDGAR B.....	COMMUNICATION IN APHASIA: MECHANISMS AND REHABILITATION.....	CMS	5R01 NS11408-02	73,304
ORGANIZATION TOTAL	87	7,402,235		
<b>CENTER FOR BLOOD RESEARCH      ZIP CODE 02115</b>				
ALPER, CHESTER A.....	INVESTIGATIONS OF HUMAN COMPLEMENT.....	HEM	5R01 AM13855-06	93,054
ALPER, CHESTER A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05626-09	44,093
ANTONIADES, HARRY N.....	CHARACTERIZATION OF SERUM FACTORS INDUCING MITOSIS.....	CBY	5R01 CA15388-02	74,985
BING, DAVID H.....	SPECIFICITY OF SERUM COMPLEMENT PROTEIN C1 ESTERASE.....	ALY	5R01 AM17351-03	87,763
BING, DAVID H.....	1ST COMPONENT OF COMPLEMENT BY HUMAN CARCINOMA IN VITRO.....	ALY	1R01 CA17376-01	79,531
BING, DAVID H.....	CHARACTERIZATION OF HUMAN ALPHA-1 ANTITRYPSIN.....	PC	1R01 HL18825-01	65,424
ORGANIZATION TOTAL	6	444,850		
<b>CHILDREN'S HOSPITAL MEDICAL CENTER      ZIP CODE 02115</b>				
BARLOW, CHARLES F.....	MENTAL RETARDATION RESEARCH PROGRAM-IMPLEMENTATION.....	HDMR	5P01 HD06276-04	299,381
BARLOW, CHARLES F.....	STUDY OF DEVELOPMENTAL NEUROLOGY.....	NSPB	5P01 NS09704-05	572,155
BRAUNWALD, NINA S.....	DEVELOPMENT OF PROSTHETIC HEART VALVES FOR CHILDREN.....	SGYA	5R01 HL16389-02	113,987
BRESLOW, JAN L.....	IN VITRO STUDY OF LIPOPROTEINS IN VASCULAR DISEASE.....	MET	5R01 HL15895-02	47,143
BROSEGHINI, ALBERT L.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05482-13	255,345
COLTEN, HARVEY R.....	BIOSYNTHESIS OF SERUM COMPLEMENT.....	ALY	9R01 AI12791-04	68,581
DAVIDSON, RICHARD L.....	GENETICS OF BUDR DEPENDENCE IN MAMMALIAN CELLS.....	GEN	1R01 CA16751-01	73,821
DREIER, THEODORE.....	PRETERM INFANT BIORHYTHMS: INTERACTION & DEVELOPMENT.....	HED	5R01 HD06413-02	35,150
FOLKMAN, MOSES J.....	ANTIANGIOGENESIS-NEW METHOD OF THERAPY OF SOLID TUMORS.....	PTHB	5R01 CA14019-03	115,620
FRIEDMAN, PAUL A.....	PLACENTAL TRANSPORT OF VITAMIN B12.....	HED	1R01 HD08884-01	29,829
GABBAY, KENNETH H.....	NEUROPATHY IN DIABETES: ROLE OF SORBITOL PATHWAY.....	MET	3R01 AM15019-03S1	4,821
GABBAY, KENNETH H.....	ROLE OF SORBITOL PATHWAY IN NEUROPATHY IN DIABETES.....	MET	2R01 AM15019-04	74,891
GALLOP, PAUL M.....	PROTEIN STRUCTURE AND COLLAGEN MATURATION.....	BIO	5R01 AM16754-03	48,222
GERALD, PARK S.....	GENETIC AND CYTOGENETIC STUDY OF MENTAL RETARDATION.....	HDMR	5P01 HD04807-06	234,376
GERALD, PARK S.....	GENETIC STUDIES OF LYSOSOMAL DISORDERS.....	GEN	2R01 HD06285-04	53,890
GLIMCHER, MELVIN J.....	THE BIOLOGY OF SKELETAL AND OTHER CONNECTIVE TISSUES.....	AMP	5R01 AM15671-05	840,949
GRAND, RICHARD J.....	DEVELOPMENT AND CONTROL OF SYNTHESIS AND SECRETION.....	GMA	5R01 AM14523-05	46,739
GREENE, LLOYD A.....	NEUROCHEMICAL STUDY OF CULTURED SYMPATHETIC NEURONS.....	NEUA	5R01 NS11557-02	23,928



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
HOLTROP, MARIJE E.	ULTRASTRUCTURAL ANALYSIS OF BONE CELL METABOLISM	GMB	1R01 AM17834-01	47,723
JANEWAY, CHARLES A.	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	CLR	5M01 RR00128-11	585,631
LA VAIL, JENNIFER H.	RETROGRADE AXONAL TRANSPORT IN THE VISUAL SYSTEM	NEUA	1R01 NS12527-01	70,067
LA VAIL, MATTHEW M.	CELLULAR MECHANISMS OF INHERITED RETINAL DEGENERATION	VISB	5R01 EY01202-03	55,080
LATT, SAMUEL A.	PROTEIN-DNA INTERACTIONS IN HUMAN CHROMOSOMES	GEN	5R01 GM21121-02	77,639
LUX, SAMUEL E. IV	LIPID METABOLISM OF PLASMA AND MEMBRANE LIPOPROTEINS	PC	5R01 HL15963-02	99,932
MOORE, MICHAEL J.	IMMUNOGENETIC REGULATION IN AUTOIMMUNE BRAIN DISEASE	NEUB	2R01 NS11231-03	39,685
NADAS, ALEXANDER S.	NATURAL HISTORY OF CONGENITAL HEART DEFECTS—JOINT STUDY	TEC	5R01 HL09476-10	23,158
NADAS, ALEXANDER S.	A MULTIDISCIPLINARY STUDY OF CONGENITAL HEART DISEASE	HEP	5P01 HL10436-10	485,891
NATHAN, DAVID G.	LEUKOCYTE OXIDASE ACTIVITY & SUSCEPTIBILITY TO INFECTION	HEM	5R01 AI08173-08	43,454
NATHAN, DAVID G.	LYSIS OF RED CELLS BY HEMOGLOBIN AND MEMBRANE DISEASE	HEM	5R01 AM15322-09	79,640
NATHAN, DAVID G.	BIOCHEMICAL APPROACHES TO SICKLE CELL ANEMIA	HEM	5R01 AM15913-04	53,065
NATHAN, DAVID G.	STUDY OF CHILDHOOD LEUKEMIA	CAP	5P01 CA13472-03	152,442
NEEDLEMAN, HERBERT L.	DEVELOPMENTAL EFFECTS OF LOW LEVEL LEAD EXPOSURE	HDMR	1P01 HD08945-01A1	295,088
OXMAN, MICHAEL N.	GENETIC ANALYSIS AND ONCOGENIC TRANSFORMATION OF SV40	VR	3R01 CA12557-03S1	4,465
PUESCHEL, SIEGFRIED M.	DOWN'S SYNDROME-5-HYDROXY TRYPTOPHAN STUDY	NEUA	3R01 HD05341-04S2	9,975
RADIN, ERIC L.	MOLECULAR BASIS OF JOINT LUBRICATION	AFY	5R01 AM15216-05	99,031
RAKIC, PASKO T.	NEUROGENETIC PROCESSES IN FETAL BRAIN	NEUB	3R01 NS11233-02S1	25,391
RAKIC, PASKO T.	NEUROGENETIC PROCESSES IN FETAL BRAIN	NEUB	2R01 NS11233-03	158,154
ROBB, RICHARD M.	HISTOCHEMISTRY OF PHOSPHODIESTERASE IN THE RETINA	VISB	1R01 EY01451-01	67,738
ROSEN, FRED S.	REACTIONS AND METABOLISM OF IMMUNE PROTEINS AND CELLS	SRC	2P01 AI05877-12	242,909
ROSEN, FRED S.	STUDY OF IMMUNOLOGIC MECHANISMS IN RENAL DISEASE	AMP	5P01 AM16392-03	186,160
SADE, ROBERT M.	HYPOTHERMIC ARREST: CEREBRAL MICROCIRCULATORY DAMAGE	SGYA	1R01 HL17336-01	45,483
SHELANSKI, MICHAEL L.	PATHOLOGY & BIOLOGY OF THE NEURONAL FIBROUS PROTEINS	NEUB	5R01 NS11504-02	56,615
SIDMAN, RICHARD L.	STUDY OF BRAIN DEVELOPMENT IN NORMAL AND MUTANT MICE	PTHA	5R01 NS11237-03	246,609
SNODGRASS, S. ROBERT	ABNORMAL MOVEMENTS AND PHARMACOLOGY OF THE FOREBRAIN	NEUB	1R01 NS12368-01	97,283
SPECTOR, REYNOLD	DRUG, VITAMIN AND HORMONE TRANSPORT IN SPINAL FLUID	PHRA	1R01 NS12274-01	47,447
STOSSEL, THOMAS P.	PHAGOCYTOSIS: INGESTION IN PULMONARY ALVEOLAR MACROPHAGE	PTHA	2R01 NS11772-01	78,843
TAEUSCH, H. WILLIAM	PULMONARY SURFACTANT REGULATION IN FETUS AND NEWBORN	HED	1R01 HD08529-01	107,989
WATKINS, JOHN B.	BILE ACID METABOLISM IN INFANCY AND CHILDHOOD	GMA	1R01 HD08489-01	61,093
WOHL, MARY E.	RESPIRATORY MECHANISMS IN CHILDREN	CVA	5R01 HL15526-02	45,274
ZWAAN, JOHAN J.	DEVELOPMENT AND GROWTH OF THE LENS	VIS	5R01 EY01002-03	63,823
ORGANIZATION TOTAL	50	6,691,605		
<b>EYE RESEARCH INSTITUTE OF RETINA FOUNDATION ZIP CODE 02114</b>				
ALLANSMITH, MATHEA R.	STUDIES IN OCULAR IMMUNOLOGY	VISA	1R01 EY01552-01	92,022
BERMAN, MICHAEL B.	SERUM ANTIPROTEASES AND CORNEAL ULCERATION	VISA	5R01 EY01246-02	50,928
CINTRON, CHARLES	CORNEAL MACROMOLECULES AND SCAR FORMATION	VISA	5R01 EY01199-02	51,916
CINTRON, CHARLES	ULTRASTRUCTURE OF CORNEAL SCAR TISSUE	VISA	1R01 EY01524-01	20,054
CONSTABLE, IAN J.	PROTON THERAPY OF EYE TUMORS	RAD	1R01 CA17638-01	119,954
DELORI, FRANCOIS, C.	STUDY OF HEMODYNAMICS OF CHOROIDAL CIRCULATION	VISA	1R01 EY01556-01	63,912
DOHLMAN, CLAES H.	STUDY OF CORNEAL PHYSIOLOGY AND PATHOLOGY	VSN	5P01 EY00208-15	288,548
HOLLY, FRANK J.	SURFACE CHEMICAL INVESTIGATION OF DRY EYE CONDITIONS	VISA	1R01 EY01381-01A1	33,892
MUKAI, NORITSUGU	PATHOGENESIS OF RETINOBLASTOMAS	VR	1R01 EY01667-01	25,941
PECZON, BENIGNO D.	DIABETIC, CATARACTOUS, AND NORMAL HUMAN LENS CAPSULES	VISA	1R01 EY01564-01	41,480
POMERANTZEF, OLEG	IMPROVEMENTS IN CONTINUOUS LASER PHOTOCOAGULATION	VISA	1R01 EY01572-01	36,752
REFOJO, MIGUEL F.	SYNTHETIC HYDROPHILIC POLYMERS FOR EYE SURGERY	VIS	5R01 EY00327-10	78,473
RIVA, CHARLES E.	STUDY OF OCULAR BLOOD FLOW WITH DYE DILUTION METHOD	VISA	5R01 EY01242-02	50,781
SCHEPENS, CHARLES L.	STUDY OF POSTERIOR SEGMENT OF THE EYE	SRC	5P01 EY00227-14	396,995
SCHEPENS, CHARLES L.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05527-13	110,932
SNODDERLY, D. MAX, JR.	FUNCTIONAL DESCRIPTION OF VISUAL MECHANISMS	VISB	1R01 EY01520-01	65,022
ORGANIZATION TOTAL	16	1,527,602		
<b>FORSYTH DENTAL CENTER ZIP CODE 02115</b>				
AMDUR, BENJAMIN H.	LIPIDS OF GRAM-POSITIVE RODS OF HUMAN DENTAL PLAQUE	DEN	2R01 DE03529-03A1	66,614
BRUDEVOLD, FINN.	CHEMISTRY OF ENAMEL SURFACE	DEN	2R01 DE02183-11	216,156
HAY, DONALD I.	TOOTH-SALIVA INTERFACE PHENOMENA AND DENTAL CARIES	DEN	5R01 DE03915-02	88,995
HEIN, JOHN W.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05483-13	124,109
KASHKET, SHELBY	INTERACTIONS OF SALIVA PROTEINS AND BACTERIA	DEN	5R01 DE03430-03	73,700
KASHKET, SHELBY	FLUORIDE AND THE METABOLISM OF PLAQUE BACTERIA	DEN	1R01 DE03917-01A1	32,423

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
LEES, SIDNEY.....	MINERALIZATION DYNAMICS STUDY BY ULTRASOUND.....	RAD	1R01 DE03992-01	74,937
MOORREES, COENRAAD F.....	FACIAL & DENTAL GROWTH STUDIES IN PRE/POST ADOLESCENTS.....	SSS	5R01 DE02873-07	169,957
SKOBE, ZIEDONIS.....	COMPARATIVE ULTRASTRUCTURE OF MAMMALIAN AMELOGENESIS.....	DEN	1R01 DE04230-01	42,824
SOCRANSKY, SIGMUND S.....	MICROBIAL COMPOSITION OF DEVELOPING DENTAL PLAQUE.....	BM	5R01 DE03488-04	53,950
ORGANIZATION TOTAL	10	943,665		
<b>HARVARD UNIVERSITY ZIP CODE 02138</b>				
ABELMANN, WALTER H.....	PATHOPHYSIOLOGY OF THE CIRCULATION.....	HEP	5P01 HL10539-10	289,051
ABRAMS, HERBERT L.....	DIAGNOSTIC RADIOLOGY RESEARCH CENTER.....	SSS	2P01 GM18674-04	565,567
ABRAMS, HERBERT L.....	CINEANGIOGRAPHIC STUDIES OF THE CARDIOVASCULAR SYSTEM.....	SGYB	5R01 HL11668-08	75,312
ADELSTEIN, S JAMES.....	THERAPEUTIC/TOXIC ACTION OF ELECTRON-EMITTING NUCLIDES.....	SSS	5R01 CA15523-02	55,251
ADELSTEIN, STANLEY J.....	CYTOCHEMICAL AND MACROMOLECULAR RADIATION EFFECTS.....	RAD	3R01 AM04219-15S1	1,212
ADELSTEIN, STANLEY J.....	CYTOCHEMICAL AND MACROMOLECULAR RADIATION EFFECTS.....	RAD	5R01 AM04219-16	61,094
AMDUR, MARY O.....	FACTOR AFFECTING IRRITANT POTENCY OF GASES AND AEROSOLS.....	TOX	5R01 ES00827-03	57,537
ANDERSON, EVERETT.....	STUDIES ON COMPARATIVE CYTOLOGY.....	CBY	3R01 HD06822-03S1	14,400
ANDERSON, EVERETT.....	STUDIES IN COMPARATIVE CYTOLOGY.....	CBY	2R01 HD06822-04	69,708
BARGER, A CLIFFORD.....	KIDNEY FUNCTION IN EXPERIMENTAL HEART FAILURE.....	CVB	2R01 HL02493-18	102,218
BARGER, A CLIFFORD.....	SPECIALIZED CENTER OF RESEARCH IN HYPERTENSION.....	SRC	5P17 HL14150-05	556,718
BARGER, A CLIFFORD.....	BIOTECHNOLOGY FACILITY FOR ELECTRON PROBE MICROANALYSIS.....	SSS	5R01 HL15552-03	13,000
BARGER, A CLIFFORD.....	PREPARATION OF BIOGRAPHY OF WALTER BRADFORD CANNON.....	SSS	2R01 LM1842-03	23,580
BARGER, A CLIFFORD.....	BIOTECHNOLOGY FACILITY FOR ELECTRON PROBE MICROANALYSIS.....	SSS	5P07 RR00679-03	184,323
BECKWITH, JONATHAN R.....	ACTION OF STREPTOMYCIN AND RIBOSOMAL FUNCTION.....	MBG	1R01 AI12542-01	72,595
BECKWITH, JONATHAN R.....	THE CHROMOSOMAL SITES REGULATING OPERON EXPRESSION.....	MBG	2R01 GM13017-10	38,722
BEEUWKES, REINIER, III.....	ELECTRON PROBE STUDIES OF THE RENAL MEDULLA.....	GMB	1R01 AM18249-01	46,756
BELLVE, ANTHONY R.....	MAMMALIAN SPERMIOGENESIS; ANALYSIS OF NUCLEAR PROTEIN.....	REB	2R01 HD08270-02	28,723
BENACERRAF, BARUJ.....	STUDIES ON IMMUNOLOGICAL RESPONSIVENESS.....	ALY	5R01 AI09920-05	161,555
BENACERRAF, BARUJ.....	STUDY OF EXPERIMENTAL CANCER IMMUNOLOGY.....	CAP	5P01 CA14723-03	536,416
BENJAMIN, THOMAS L.....	GENETIC AND BIOCHEMICAL STUDIES OF MLV AND MSV.....	VR	5R01 CA16252-02	43,647
BERSON, ELIOT L.....	ELECTROPHYSIOLOGICAL STUDIES OF RETINAL DEGENERATIONS.....	VISB	5R01 EY00169-05	57,847
BIGGERS, JOHN D.....	STUDY OF REPRODUCTION.....	HDPR	5P01 HD06916-02	240,396
BIGGERS, JOHN D.....	THE GRAAFIAN FOLLICLE AND MEIOTIC MATURATION.....	REB	1R01 HD08909-01	59,399
BLOOMQUIST, HAROLD.....	HOSPITAL LIBRARY DEVELOPMENT PROGRAM.....	SRC	2R01 LM01741-04	119,210
BLOUT, ELKAN R.....	PEPTIDES AND PROTEINS.....	BBCB	5R01 AM07300-13	125,437
BLOUT, ELKAN R.....	SYNTHESIS OF OLIGOPEPTIDES AND CYCLIC PEPTIDES.....	BBCA	5R01 AM10794-09	42,035
BLOUT, ELKAN R.....	STRUCTURE AND BIOLOGICAL FUNCTION OF COLLAGENASE.....	PC	5R01 AM15061-04	32,890
BOYER, MARKLEY H.....	'HOST ANTIGEN' PHENOMENON IN MURINE SCHISTOSOMIASIS.....	TMP	1R22 AI12317-01	27,230
BRAIN, JOSEPH D.....	RESPONSE OF ALVEOLAR MACROPHAGES TO INHALED PARTICLES.....	PTHA	5R01 ES00583-05	104,248
BRAIN, JOSEPH D.....	FACTORS INFLUENCING DEPOSITION OF INHALED PARTICLES.....	CVA	1R01 ES01016-01	59,211
CALDINI, PAOLO.....	RESPIRATORY MECHANICS IN HEMODYNAMICS PULMONARY EDEMA.....	CVA	5R01 HL16256-02	16,850
CERNY, JAN.....	REGULATORY MECHANISMS OF NEOPLASIA.....	IMB	2R01 CA14922-02	68,013
CHAN-PALAY, VICTORIA.....	ORGANIZATION OF THE STRIATE CORTEX.....	NEUA	5R01 NS10536-03	39,569
CHAN-PALAY, VICTORIA.....	ORGANIZATION OF THE STRIATE CORTEX.....	NEUA	2R01 NS10536-04	53,384
CHYLACK, LEO T, JR.....	LENS METABOLISM AND CATARACT FORMATION.....	VISA	5R01 EY01276-02	70,580
CLOWES, GEORGE H, JR.....	FACTORS INDUCING THE ABNORMAL METABOLISM OF TRAUMA.....	SGYA	5R01 GM19954-03	86,905
COHEN, JONATHAN B.....	NEUROCHEMICAL BASIS OF CHOLINERGIC EXCITABILITY.....	PHRA	1R01 NS12408-01	88,925
COHEN, PHIL.....	STUDIES OF HUMAN PLATELET INOSITIDES.....	HEM	5R01 HL13802-05	61,718
COONS, ALBERT H.....	STUDIES ON ANTIBODY PRODUCTION.....	ALY	5R01 AI05691-20	106,393
COTRAN, RAMZI S.....	PATHOPHYSIOLOGY OF VASCULAR INJURY.....	*PTHA	5R01 HL08251-12	96,951
DAVIS, BERNARD D.....	RIBOSOME FUNCTION: ANTIBIOTIC ACTION.....	MBG	2R01 GM16835-07	59,048
DAWSON, STANLEY V.....	LUNG AIRWAY PROPERTIES BY ACOUSTIC IMPULSE REFLECTION.....	CVA	1R01 HL17613-01	28,008
DE PAMPHILIS, MELVIN L.....	TUMOR VIRUS DNA REPLICATION; A PROBE INTO ONCOGENESIS.....	VR	5R01 HL08251-02	69,727
DIAMANDOPOULOS, GEORGE T.....	VIRAL CARCINOGENESIS WITH SPECIAL REFERENCE TO SV40.....	VR	5R01 CA08731-10	143,171
DYM, MARTIN.....	THE ROLE OF THE SERTOLI CELL IN SPERMATOGENESIS.....	REB	5R01 HD06969-02	31,432
EBERT, ROBERT H.....	NEW ENGLAND REGIONAL PRIMATE RESEARCH CENTER.....	PME	5P06 RR00168-14	1,292,344
EBERT, ROBERT H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05381-14	255,345
ENGEL, LEWIS L.....	PATTERNS OF STEROID METABOLISM IN CANCER.....	END	5R01 CA01393-25	174,444
ENGEL, LEWIS L.....	ANALYSIS AND METABOLISM OF DIETHYLSTILBESTROL.....	MCHB	5R01 HD08457-02	32,984
EPSTEIN, FRANKLIN H.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00076-13	539,330
ESSEX, MYRON E.....	STUDY OF ONCORNAVIRUS-ASSOCIATED CELL-MEMBRANE ANTIGENS.....	VR	5R01 CA13885-02	40,283
FAHIMI, HOSSEIN D.....	MUSCLE: FINE STRUCTURAL BASIS OF ABNORMAL PERMEABILITY.....	PTHA	5R01 NS08533-07	35,029

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
FAREED, GEORGE C.	SIMIAN VIRUS 40 DNA REPLICATION AND TRANSFORMATION	VR	5R01 CA14885-02	69,756
FAWCETT, DON W.	EXPERIMENTAL STUDIES ON THE SEMINIFEROUS EPITHELIUM	REB	5R01 HD02344-10	47,539
FERPIS, BENJAMIN G., JR.	EFFECT OF LOW LEVEL AIR POLLUTANTS ON HUMAN HEALTH	EDC	5R01 ES00868-03	55,259
FIELD, MICHAEL	MOLECULAR MECHANISM OF ACTION OF CHOLERA TOXIN	PHRA	2R22 AI09029-07	93,895
FISCHBACH, GERALD D.	SYNAPSE FORMATION IN LOW-DENSITY CELL CULTURES	NEUB	5R01 NS11160-03	99,116
FITZPATRICK, THOMAS B.	DERMATOLOGIC REACTIONS INDUCED BY SOLAR RADIATION	GMA	2R01 CA05003-17	124,192
FOOTE, WARREN E.	ELECTROPHYSIOLOGY OF INDOLEAMINES IN THALAMUS	PPR	5R01 NS12050-02	50,809
FRAENKEL, DAN G.	MICROBIAL MUTANTS IN-CENTRAL CARBOHYDRATE METABOLISM	MBC	5R01 GM21098-02	50,024
FURSHPAN, EDWIN J.	STUDIES ON CELL INTERCONNECTIONS	PHY	5R01 NS03273-14	56,402
GERSHOFF, STANLEY N.	EFFECT OF DIET ON URINARY STONE FORMATION IN ANIMALS	NTN	5R01 AM16835-02	54,897
GETTLEMAN, LAWRENCE	MATERIALS TESTING OF POLYMER REPLICA DENTAL IMPLANTS	DEN	5R23 DE03690-03	9,066
GETTLEMAN, LAWRENCE	NONPRECIOUS METAL SUBSTITUTES FOR DENTAL GOLD ALLOYS	DEN	1R01 DE03696-01	39,988
GEYER, ROBERT P.	TOTAL BLOOD REPLACEMENT BY FLUOROCARBONS AND POLYOLS	SGYA	5R01 HL15520-03	72,907
GEYER, ROBERT P.	LIPID STUDIES IN VASCULAR SMOOTH MUSCLE CELLS	MET	1R01 HL15646-01A1	43,386
GEYER, ROBERT P.	ARTIFICIAL BLOOD SUBSTITUTES. O2-BINDING IRON CHELATES	MCHB	1R01 HL17844-01	95,247
GOLDBERG, ALFRED L.	MECHANISMS OF GROWTH AND ATROPHY OF SKELETAL MUSCLE	MET	5R01 NS10571-03	77,833
GOLDBERG, IRVING H.	MECHANISM OF ACTION OF CYTOTOXIC DRUGS	PC	5R01 GM12573-11	76,086
GOLDHABER, PAUL	THE MECHANISM AND TREATMENT OF PERIODONTAL DISEASE	SSS	5P01 DE02849-07	234,544
GOLDHABER, PAUL	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05318-14	100,865
GOLDSTEIN, RICHARD N.	INTERACTIONS OF SATELLITE PHAGE P4 AND ITS HELPER, P2	VR	5R01 CA15168-02	43,651
GOODENOUGH, DANIEL A.	BIOCHEMISTRY AND FUNCTION OF INTERCELLULAR JUNCTIONS	MBY	2R01 GM18974-04	51,900
HALL, ZACH W.	POSTSYNAPTIC PROTEINS AT THE NEUROMUSCULAR JUNCTION	NEUA	5R01 NS09646-05	58,267
HAMILTON, DAVID W.	STRUCTURE AND FUNCTION OF EPIDIDYMIS AND VAS DEFERENS	REB	5R01 HD04290-05	36,684
HAY, ELIZABETH D.	CYTOLOGY OF GROWING AND DIFFERENTIATING CELLS	MBY	3R01 HD00143-15S1	35,627
HAY, ELIZABETH D.	ROLE OF EXTRACELLULAR MATRIX IN MORPHOGENESIS	MBY	2R01 HD00143-16A1	99,091
HAYES, KENNETH C.	NUTRITIONAL REQUIREMENTS OF THE VISUAL PROCESS	VISB	5R01 EY00631-05	38,556
HAYES, KENNETH C.	PRIMATES IN CARDIOVASCULAR RESEARCH	HEP	3P01 HL10098-10S1A1	24,668
HAYES, KENNETH C.	STUDY OF INDUCED CARDIOVASCULAR DISORDERS IN PRIMATES	HEP	2P01 HL10098-11	238,972
HAYES, KENNETH C.	LIPID METABOLISM AND ATHEROSCLEROSIS IN PRIMATES	PTHA	5R01 HL15797-02	90,111
HEGSTED, DAVID M.	NUTRITIVE VALUE OF PROTEINS	NTN	5R01 AM09520-10	68,131
HEGSTED, DAVID M.	MALNUTRITION AND BEHAVIORAL DEVELOPMENT IN MONKEYS	SSS	5R01 HD07032-02	166,557
HEGSTED, DAVID M.	SPECIFIC FATTY ACIDS AND CHOLESTEROL METABOLISM	NTN	2R01 HL12399-10	65,389
HELLMAN, SAMUEL	PROLIFERATION AND DIFFERENTIATION OF STEM CELLS	RAD	2R01 CA10941-07	83,494
HELLMAN, SAMUEL	CANCER RESEARCH PROGRAM	CAP	5P01 CA12662-04	590,416
HENNEMAN, ELWOOD	ORGANIZATION OF THE MOTONEURON POOL AND ITS INPUTS	NEUB	5R01 NS10857-02	55,826
HENSHAW, EDGAR C.	INTERMEDIARY METABOLISM IN ANIMALS AND IN MAN	PC	5R01 CA03151-18	128,096
HERD, JAMES A.	CENTRAL CONTROL OF DISTRIBUTION OF ORGAN BLOOD FLOW	CVB	5R01 HL09154-11	21,250
HERMAN, PETER G.	LYMPH NODE METASTASIS: ANGIOGRAPHIC & ISOTOPIC STUDIES	RAD	5R01 CA16019-02	53,615
HERRERA, M GUILLERMO	MALNUTRITION AND PSYCHOLOGIC DEVELOPMENT	SSS	3R01 HD06774-01A1S1	49,172
HERRERA, M GUILLERMO	MALNUTRITION AND PSYCHOLOGIC DEVELOPMENT	SSS	5R01 HD06774-02	198,132
HERRERA, M GUILLERMO	DIETARY CONTROL OF SYNTHESIS OF HEPATIC LIPOPROTEINS	NTN	5R01 HL15968-03	33,695
HILDEBRAND, JOHN G.	NEUROBIOLOGY OF INSECT DEVELOPMENT AND METAMORPHOSIS	NEUB	5R01 NS11010-02	25,222
HOLMAN, B LEONARD	ACUTE MYOCARDIAL INFARCT SCINTIGRAPHY	RAD	1R01 HL17739-01	68,710
HUBEL, DAVID H.	ORGANIZATION OF THE VISUAL SYSTEM	VISB	5R01 EY00605-16	144,401
HUTCHISON, GEORGE B.	COOPERATIVE STUDY OF HODGKIN'S DISEASE	CCI	5R10 CA13607-04	37,782
ITO, SUSUMU	ULTRASTRUCTURE OF RICKETTSIAE IN LICE AND FLEAS	TMP	5R01 AI11508-03	37,211
ITO, SUSUMU	ULTRASTRUCTURE AND FUNCTION OF THE GASTRIC MUCOSA	MBY	5R01 AM07578-14	32,394
ITO, SUSUMU	STUDY OF DISSOCIATED AND SEPARATED GASTRIC CELL TYPES	MBY	5R01 AM17255-02	47,237
KARNOVSKY, MANFRED L.	BIOCHEMICAL BASIS OF PHAGOCYTOSIS	BM	2R01 AI03260-16	51,022
KARNOVSKY, MANFRED L.	HUMORAL FACTORS AND BRAIN METABOLISM IN SLEEP	NEUB	5R01 NS07484-08	107,970
KARNOVSKY, MORRIS J.	ULTRASTRUCTURAL IMMUNOCYTOCHEMISTRY OF CELL SURFACES	ALY	2R01 AI10677-04	61,650
KARNOVSKY, MORRIS J.	THE ULTRASTRUCTURAL BASIS OF GLOMERULAR PERMEABILITY	PTHA	5R01 AM13132-06	55,584
KARNOVSKY, MORRIS J.	STUDIES IN ULTRASTRUCTURAL CYTOCHEMISTRY	MBY	2R01 HL09125-11	75,678
KASS, EDWARD H.	STUDY OF PATHOGENESIS OF CHRONIC INFECTIONS	HDPB	5P01 HD03693-07	198,436
KATZ, DAVID H.	CELL COOPERATION IN IMMUNE RESPONSES	ALY	2R01 AI10630-04	100,620
KELLEY, RITA M.	COOPERATIVE STUDY OF CANCER OF THE BREAST	CCI	2R10 CA03740-17	35,902
KENNEDY, EUGENE P.	TRANSPORT OF MAGNESIUM	MBC	5R01 GM18731-04	30,216
KENNEDY, EUGENE P.	METABOLISM AND FUNCTION OF COMPLEX LIPIDS	MBC	5R01 GM19822-16	50,636
KENNEDY, EUGENE P.	BIOGENESIS AND FUNCTION OF MEMBRANES	MBC	1R01 GM22057-01	67,855
KITZ, RICHARD J.	ANESTHESIOLOGY CENTER FOR RESEARCH AND TEACHING	GMP	5P01 GM15904-08	757,842



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
KOHN, HENRY I.	MUTAGENS, MUTATION RATES, AND THE MOUSE H TEST	GEN	5R01 GM18421-04	81,792
KRAVITZ, EDWARD A.	STUDIES OF SYNAPTIC CHEMISTRY IN THE NERVOUS SYSTEM	NEUA	5R01 NS07848-08	69,347
KUFLER, STEPHEN W.	NEUROPHYSIOLOGICAL AND NEUROCHEMICAL STUDIES	NSPA	5P01 NS02253-16	338,698
KUSHMERICK, MARTIN J.	MUSCLE ENERGY METABOLISM	PHY	2R01 AM14485-04	66,284
LAM, DOMINIC M.	NEUROTRANSMITTERS IN THE VISUAL SYSTEM	VISB	1R01 EY01471-01	61,816
LECHENE, CLAUDE P.	ELECTRONPROBE MICROANALYSIS OF NEPHRON FUNCTION	PHY	5R01 AM16898-03	33,915
LEEMAN, SUSAN E.	PURIFICATION AND FUNCTION OF HYPOTHALAMIC PEPTIDES	END	5R01 AM16510-04	70,281
LIN, EDMUND C.	REGULATION OF GLYCEROL TRANSPORT AND METABOLISM	MBC	5R01 GM11983-12	71,839
LINCK, RICHARD W.	ASSEMBLY AND MOTILE MECHANISMS OF CILIA AND FLAGELLA	MBY	1R01 GM21527-01	52,516
LITTLE, JOHN B.	EFFECTS OF RADIATION ON STATIONARY CELLS	RAD	5R01 CA11751-06	90,608
LOCKE, SIMEON.	THALAMOCORTICAL CONNECTIONS IN BRAIN	NEUA	5R01 NS04131-13	32,399
LOWN, BERNARD.	SUDDEN DEATH AND CARDIAC ARRHYTHMIAS	CVA	2R01 HL07776-12	144,000
LOWN, BERNARD.	DETECTION AND CONTROL OF VENTRICULAR PREMATURE BEATS	SRC	1R01 HL18783-01	112,320
LYMAN, CHARLES P.	HOMEOSTASIS IN MAMMALIAN HIBERNATION	PHY	5R01 GM16714-07	39,333
MAC DONALD, A BRUCE	IMMUNE RESPONSE TO ONCOGENIC HERPES VIRUSES IN MONKEYS	VR	5R01 CA14794-02	78,631
MAC MAHON, BRIAN	CANCER EPIDEMIOLOGY AND PREVENTION RESEARCH CENTER	CAP	2P01 CA06373-13	342,488
MAC MAHON, BRIAN	AGGREGATION OF EXPOSURES IN HODGKIN'S DISEASE	EDC	1R01 CA18103-01	48,963
MATHEWS-ROTH, MICHELINE M.	CAROTENOID THERAPY OF PHOTOSENSITIVE PORPHYRIA	GMA	2R01 AM14545-06	63,202
MATHEWS-ROTH, MICHELINE M.	CAROTENOIDS AS ANTITUMOR AGENTS FOR SKIN TUMORS	ET	1R01 CA18318-01	35,347
MAYER, JEAN	METABOLIC ASPECTS OF OBESITY	NTN	2R01 AM02911-16	93,408
MAYER, JEAN	NEUROPHYSIOLOGY OF FOOD INTAKE	EXP	5R01 NS01941-17	71,280
MC LAUGHLIN, ROBERT J.	CONTRACTILE AND ELASTIC PROPERTIES OF CARDIAC MUSCLE	CVB	5R01 HL16177-02	42,802
MEAD, JERE	STUDY OF MECHANICS AND CONTROL OF RESPIRATION	HEP	5P01 HL14580-04	545,999
MICHELSON, EDWARD H.	ALPHA-RADIATION OF S. MANSONI SNAIL HOSTS AND MIRACIDIA	TMP	1R22 AI12644-01	43,004
MIIETTINEN, OLLI S.	TEST-BASED ESTIMATION IN CANCER EPIDEMIOLOGY	EDC	1R01 CA18562-01	43,602
MIIETTINEN, OLLI S.	NATURAL HISTORY OF CONGENITAL HEART DEFECTS—JOINT STUDY	TEC	5R01 HL10988-10	93,154
MONACO, ANTHONY P.	IMMUNOSUPPRESSION AND ACTIVE ENHANCEMENT	IMB	2R01 AI08558-07	91,200
MONACO, ANTHONY P.	IMMUNODIAGNOSTIC ASSAY OF BLADDER CARCINOMA	SRC	1R26 CA17464-01	88,129
MOORE, FRANCIS D.	BODY COMPOSITION AND METABOLIC CARE IN SURGERY	SGYB	5R01 HL13872-17	158,742
MOREST, DONALD K.	ANATOMY OF THE AUDITORY SYSTEM	NEUB	5R01 NS06115-11	51,361
MOYLE, WILLIAM R.	ROLE OF CYCLIC AMP IN ADRENAL TUMOR STEROIDOGENESIS	END	5R01 CA15155-02	44,856
MURPHY, JOHN R.	VRULENCE FACTORS OF CORYNEBACTERIUM DIPHTHERIAE	MBC	1R01 AI12500-01	20,804
MURPHY, SHELDON D.	FACTORS AFFECTING PESTICIDE TOXICITY	SSS	5R01 ES00084-11	64,944
MURRAY, EDWARD S.	DIAGNOSTIC SIGNIFICANCE ANTIBODY RESPONSE TO GONORRHEA	BM	5R01 AI12186-02	41,678
NICHOLS, ROGER L.	CENTER FOR STUDY OF SEXUALLY TRANSMITTED DISEASES	SRC	5P01 AI12381-02	160,735
NICHOLS, ROGER L.	TYPE-SPECIFIC ANTIGEN OF CHLAMYDIA TRACHOMATIS	VISA	1R01 EY01568-01	43,838
OFNER, PETER.	ANDROGENS IN PROSTATIC AND EPIDIDYMAL CULTURE	END	3R01 CA13417-02S1	47,477
ORR, JAMES C.	DEUTERIOHORMONE-PROTEIN INTERACTIONS	END	1R01 AM17304-01A1	31,796
PALAY, SANFORD L.	THE FINE STRUCTURE OF THE NERVOUS SYSTEM	CBY	5R01 NS03659-14	104,790
PANDYA, DEEPAK N.	CONNECTIONS OF THE CEREBRAL CORTEX	NEUB	5R01 NS09211-05	98,591
PATTERSON, PAUL H.	CELLULAR INTERACTION IN NEURONAL TISSUE CULTURE	CBY	5R01 NS11027-02	15,807
PAULUS, HENRY	PEPTIDE ANTIBIOTICS AND BACTERIAL SPOULATION	MBC	5R01 GM09396-14	40,632
PERLMAN, ROBERT L.	STUDIES ON ADRENAL CATECHOLAMINE SECRETION	PHRA	1R01 HL18148-01	45,432
PIERCE, CARL W.	CELL INTERACTIONS IN IMMUNE RESPONSES IN VITRO	IMB	5R01 AI09897-05	54,307
POLLARD, THOMAS D.	THE MOLECULAR MECHANISM OF CELLULAR MOTILITY	CBY	5R01 GM19654-03	43,600
POTTER, DAVID D.	DEVELOPMENT OF SYMPATHETIC JUNCTIONS IN CULTURE	CBY	5R01 NS11576-02	35,043
RANDO, ROBERT R.	SUBSTRATE INDUCED IRREVERSIBLE INHIBITION OF ENZYMES	BIO	5R01 GM20366-02	33,667
RANDO, ROBERT R.	BEHAVIORAL PHARMACOLOGY AND TRANSMITTER METABOLISM	PHRA	5R01 NS11550-02	53,544
RANDOLPH, MARY C.	CONSEQUENCES OF PARIETAL LESIONS	NEUA	1R01 NS12090-01	31,800
RAVIOLA, ELJO	ULTRASTRUCTURAL ASPECTS OF CELLULAR IMMUNITY	IMB	5R01 AI11438-03	48,413
REIF-LEHRER, LIANE.	BIOCHEMICAL CONTROL IN THE NORMAL AND DISEASED RETINA	VISB	5R01 EY00374-08	82,233
RICHARDSON, CHARLES C.	STUDIES ON THE STRUCTURE AND SYNTHESIS OF DNA	BIO	5R01 AI06045-12	92,460
RYAN, GRAEME B.	ENDOTHELIAL INJURY AND REGENERATION	PTHA	1R01 HL17747-01	46,476
RYAN, KENNETH J.	STUDY OF POPULATION PROBLEMS	HDPH	5P01 HD06645-04	223,888
RYAN, KENNETH J.	STEROID HORMONE METABOLISM	REB	5R01 HD07923-03	56,591
SALHANICK, HILTON A.	MODE OF ACTION AND SYNTHESIS OF PROGESTATIONAL HORMONES	END	5R01 AM10081-10	60,944
SHAW, JAMES H.	BIOCHEMICAL STUDIES IN PERIODONTAL DISEASE	DEN	5R01 DE00322-16	34,443
SHAW, JAMES H.	MODIFICATION OF CARIES POTENTIAL OF HUMAN FOODS	NTN	1R01 DE04027-01	45,411
SHULMAN, LEONARD B.	EFFECT OF STRESS ON VITREOUS CARBON TOOTH-ROOT IMPLANTS	DEN	5R01 DE03755-03	47,043
SOLOMON, ARTHUR K.	STUDIES ON RED CELL ION TRANSPORT AND LIPID BILAYERS	PHY	5R01 GM15692-08	73,077

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
SOLOMON, ARTHUR K.	FACTORS AFFECTING PHYSIOLOGY OF BIOLOGICAL MEMBRANES	PHY	5R01 HL14820-03	38,050
SPEIZER, FRANK E.	A PROSPECTIVE COHORT FOR RISKS IN BREAST CANCER	EDC	1R01 CA16686-01	33,428
SPIELMAN, ANDREW	EFFECT OF HORMONOMIMETIC COMPOUNDS ON CULICIDS	TMP	2R01 AI10274-04	59,436
SPIELMAN, ANDREW	POPULATION STRUCTURE AND FEEDING HABITS OF C. PIPIENS	TMP	1R01 AI12723-01	52,463
STUART, ANN E.	NEURAL MECHANISMS IN PROCESSING VISUAL INFORMATION	VISB	5R01 EY01188-03	21,287
SZABO, GEORGE	STUDY OF ULTRASTRUCTURE AND PHYSIOLOGY OF ORAL MUCOSA	SSS	5R01 DE01766-13	84,764
TAI, PHANG-CHENG	TRANSLATION ON POLYCYSTRONIC MRNA & ANTIBIOTIC ACTION	WBC	1R01 GM22030-01	52,238
TASHJIAN, ARMEN H., JR.	PEPTIDE HORMONES AFFECTING MINERAL METABOLISM	GMB	2R01 AM10206-09	97,324
TASHJIAN, ARMEN H., JR.	DIFFERENTIATED FUNCTION IN DISPERSED CELL CULTURES	MBY	5R01 AM11011-09	115,045
THEMEN, SHIRLEY W.	NUTRITION AND PREGNANCY: THE FOLIC ACID REQUIREMENT	NTN	1R01 HD08353-01A1	27,237
THOMAS, CHARLES A., JR.	MOLECULAR CYTOGENETICS OF LAMPBRUSH CHROMOSOMES	GEN	5R01 GM21136-02	72,188
THOMAS, CHARLES A., JR.	MOLECULAR CYTOGENETICS	GEN	1R01 GM21740-01	143,540
THOMPSON, ROBERT C.	PHOTO-AFFINITY LABELS AS PROBES OF RIBOSOME FUNCTION	BBCA	5R01 GM20609-03	44,006
TILNEY, NICHOLAS L.	MECHANISMS OF ALLOGRAFT REJECTION AND SURVIVAL	IMB	1R01 AI12250-01	55,130
UNANUE, EMIL R.	STUDIES ON ANTIGENIC STIMULATION	IMB	5R01 AI10091-05	91,304
VALLEE, BERT L.	STUDY OF BIOLOGICAL FUNCTION OF METALS	SSS	5P01 GM15003-14	421,920
VENKATACHALAM, MANJERI A.	ACUTE RENAL FAILURE BASIS OF SUSTAINED RENAL ISCHEMIA	PTHA	5R01 AM16749-03	34,654
VILLEE, CLAUDE	RNA-MEDIATED EFFECTS OF STEROID SEX HORMONES	END	1R01 HD09424-01	35,604
VILLEE, CLAUDE A.	STUDIES ON RENAL CELL CANCER IN THE HAMSTER AND HUMAN	ET	1R01 CA16854-01	68,674
VINSON, J. WILLIAM	THE CHICK EMBRYO AS AN ANIMAL MODEL FOR GONORRHEA	BM	5R01 AI11284-03	46,560
VON LICHTENBERG, FRANZ C.	STUDIES ON SCHISTOSOMIASIS AND ON GRANULOMA FORMATION	PTHA	5R22 AI02631-17	43,518
WARD, SAMUEL	GENETIC SPECIFICATION OF NEURAL STRUCTURE	CBY	1R01 GM22203-01	99,024
WARRAM, JAMES H.	SUPPORT FOR NATIONAL STUDY OF CANCER OF THE BLADDER	BP	5R26 CA15497-02	114,661
WAXMAN, STEPHEN G.	REGIONAL MORPHOLOGY OF MYELINATED AXONS	NEUB	1R01 NS12307-01	49,194
WHITTENBERGER, JAMES L.	SUPPORT FOR ENVIRONMENTAL HEALTH CENTER	SSS	5P10 ES00002-13	631,202
WHITTENBERGER, JAMES L.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05446-14	234,565
WIESEL, TORSTEN N.	STUDIES OF THE VISUAL SYSTEM	VIS	5R01 EY00606-11	112,417
WILLIAMS, JERRY R.	DNA REPAIR IN CELL KILLING, AGING AND CARCINOGENESIS	RAD	1R01 CA16649-01	57,597
WILLIAMS, JERRY R.	DNA METABOLISM AND HUMAN AGING	SSS	1R01 HD09175-01	45,050
WILSON, T. HASTINGS	COMPARATIVE PHYSIOLOGY OF MEMBRANE TRANSPORT	PHY	5R01 AM05736-14	83,549
YOSHINAGA, KOJI	UTERINE SENSITIVITY AND ITS ASSOCIATED PHENOMENA	REB	3R01 HD06047-03S1	6,137
ORGANIZATION TOTAL	204	20,977,746		
<b>JOSLIN DIABETES FOUNDATION ZIP CODE 02215</b>				
CAHILL, GEORGE F., JR.	PHYSIOLOGY, PATHOLOGY, AND BIOCHEMISTRY OF DIABETES	MET	5R01 AM15191-05	179,689
CAHILL, GEORGE F., JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05673-06	101,179
CHICK, WILLIAM L.	STUDY OF PANCREATIC ISLET AND BETA CELLS	MET	5R01 AM15398-05	97,407
CHRISTLIEB, A. RICHARD	ANGIOTENSIN AND HYPERTENSION	GMB	5R01 HL13368-06	60,732
LIKE, ARTHUR A.	ULTRASTRUCTURAL AND PHYSIOLOGIC STUDIES OF DIABETES	PTHA	5R01 AM15193-05	89,205
RUDERMAN, NEIL B.	GLUCOSE AND AMINO ACID METABOLISM IN SKELETAL MUSCLE	MET	2R01 AM15272-04	53,590
SOELDNER, JOHN S.	DIABETES—PATHOGENESIS, DETECTION, AND ORAL AGENTS	MET	5R01 AM09748-10	107,887
SOELDNER, JOHN S.	PATHOGENESIS OF MICROANGIOPATHY IN DIABETES	VISA	9R01 EY01421-14	61,826
SPIRO, MARY J.	STUDY OF THYROGLOBULIN	PC	5R01 AM17752-02	63,474
SPIRO, ROBERT G.	STUDY OF THE STRUCTURE OF GLYCOPROTEINS	PC	5R01 AM17325-03	68,594
SPIRO, ROBERT G.	STUDY OF BIOSYNTHESIS OF GLYCOPROTEINS	PC	2R01 AM17477-02	81,334
ORGANIZATION TOTAL	11	964,917		
<b>LAHEY CLINIC FOUNDATION ZIP CODE 02215</b>				
ELLIS, F. HENRY, JR.	RESTORATION OF PRESSURE TO HYPOTENSIVE G-E SPHINCTER	SGYA	1R01 AM18192-01	42,627
OBERFIELD, RICHARD A.	EASTERN COOPERATIVE ONCONOLOGY GROUP	CCI	3R10 CA12880-03S2	12,320
ORGANIZATION TOTAL	2	54,947		
<b>MASSACHUSETTS COLLEGE OF PHARMACY ZIP CODE 02115</b>				
BAROFSKY, ANNA-LISA	SEROTONINERGIC MECHANISMS IN OVULATION INHIBITION	REB	2R01 HD06761-04	65,889
ORGANIZATION TOTAL	1	65,889		
<b>MASSACHUSETTS EYE AND EAR INFIRMARY ZIP CODE 02114</b>				
DOHLMAN, CLAES H.	HOWE LABORATORY OPHTHALMIC RESEARCH CORE FACILITIES	VSN	3P01 EY00292-08S1	58,553
DOHLMAN, CLAES H.	OPHTHALMIC RESEARCH CORE FACILITIES	SRC	1P01 EY01537-01	105,944
DONALDSON, DAVID D.	OPHTHALMIC INSTRUMENTATION RESEARCH	VISA	5R01 EY00999-02	77,650

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
FRICKER, STEPHEN J.	CORRELATION ANALYSIS OF EYE MOTION, ERG AND VER.	VISB	5R01 EY00885-03	61,428
GRANT, W. MORTON.	PRESSURE-REGULATING MECHANISMS IN GLAUCOMA.	VISA	5R01 EY00002-24	111,584
KIANG, NELSON Y.	PHYSIOLOGICAL STUDIES OF THE AUDITORY SYSTEM.	SSS	5R01 NS01344-18	234,075
KIMURA, ROBERT S.	ELECTRON MICROSCOPY OF THE INNER EAR.	CMS	5R01 NS03932-14	63,512
MULROY, MICHAEL J.	INTRACELLULAR RESPONSES IN AUDITORY PAPILLA.	CMS	5R01 NS09243-05	38,745
SCHUKNECHT, HAROLD F.	OTOPATHOLOGY BY LIGHT MICROSCOPY.	CMS	5R01 NS05881-10	22,882
SCHUKNECHT, HAROLD F.	GENERAL RESEARCH SUPPORT GRANT.	NSS	5S01 RR05485-13	75,597
ORGANIZATION TOTAL	10 849,970			
<b>MASSACHUSETTS GENERAL HOSPITAL ZIP CODE 02114</b>				
AHLUWALIA, BHAGWAT D.	STUDY OF DISTRIBUTION OF THE EXTRAVASCULAR LUNG WATER.	YIP	1R23 HL18374-01	40,679
ALPERT, ELLIOT.	IMMUNOCHEMICAL STUDIES OF GASTROINTESTINAL CANCER.	ALY	5R01 CA12389-05	66,409
AMES, ADELBERT, III.	CHEMISTRY AND FUNCTION IN CENTRAL NERVOUS SYSTEM.	PHY	5R01 NS07702-12	56,617
APRILLE, JUNE R.	DEVELOPMENT OF NEONATAL THERMOREGULATION.	HED	1R01 HD08600-01A1	65,693
AREES, EDWARD A.	DEVELOPMENT OF OPTIC PATHWAY DURING EMBRYOGENESIS.	VISB	5R01 EY01287-02	50,607
AVRUCH, JOSEPH	RED CELL CATION TRANSPORT AND CONTRACTILE FUNCTIONS.	BIO	5R01 AM16914-02	47,036
BADEN, HOWARD P.	STUDIES ON THE BIOSYNTHESIS OF KERATIN.	MBY	2R01 AM06838-13	112,186
BADEN, HOWARD P.	AN INHIBITOR OF DNA SYNTHESIS OF PLACENTAL ORIGIN.	MBY	5R01 HD07461-02	31,405
BARLOW, JOHN S.	COMPUTER STUDIES OF BRAIN POTENTIALS.	COM	5R01 NS03752-14	91,518
BAUM, STANLEY.	ANGIOGRAPHIC DIAGNOSIS AND CONTROL OF GI BLEEDING.	RAD	5R01 AM16026-05	84,195
BECK, WILLIAM S.	THE METABOLISM OF NORMAL AND LEUKEMIC LEUKOCYTES.	BIO	5R01 CA03728-18	92,167
BLACK, PAUL H.	MECHANISMS OF TRANSFORMATION BY ONCOGENIC VIRUSES.	SSS	5R01 AM10125-09	137,266
BLOCH, KURT J.	IMMUNOBIOLOGY OF PARASITISM.	TMP	5R01 AI10129-05	32,585
BROWNELL, GORDON L.	DEVELOPMENT OF TRANSVERSE SECTION X-RAY CAMERA.	RAD	5R01 CA15882-02	220,101
BROWNELL, GORDON L.	RADIOISOTOPE DATA PROCESSING AND DISPLAY.	COM	5R01 AM16712-07	98,413
BUCHER, NANCY L.	CYTOPLASMIC FACTORS IN CELLULAR GROWTH.	CBY	2R01 CA02146-22	74,323
BURKE, JOHN F.	BURN TRAUMA CENTER.	SSS	3P01 GM21700-01S1	43,617
CAREY, ROBERT W.	COOPERATIVE STUDY OF ACUTE LEUKEMIA.	CCI	2R10 CA12449-05	14,095
CODINGTON, JOHN F.	MASKING OF ANTIGENS AT CANCER CELL SURFACES.	MBY	1R01 CA18600-01	44,640
COGGINS, CECIL H.	STUDY OF THE ADULT IDIOPATHIC NEPHROTIC SYNDROME.	EDC	2R01 AM15646-04	75,828
COOPER, JEFFREY B.	NEW APPROACHES FOR ANESTHESIA MANAGEMENT.	SGYA	5R01 GM22023-01	63,335
DAGGETT, WILLARD M.	EXTRINSIC FACTORS INFLUENCING MYOCARDIAL PERFORMANCE.	SGYA	5R01 HL12322-07	47,981
DAGGETT, WILLARD M.	MECHANISMS IN CARDIAC PERFORMANCE.	SGYB	5R01 HL12777-06	59,953
DALY, JAMES J.	LDH ISOZYMES AND CHROMOSOMES IN BLADDER CARCINOMA.	BP	5R26 CA15479-03	51,519
DE LONG, G. ROBERT.	SPECIFIC CELL INTERACTIONS IN HISTOGENESIS OF BRAIN.	CBY	5R01 NS08853-06	66,604
DI BONA, DONALD R.	REGULATION OF EXTRACELLULAR TRANSEPITHELIAL TRANSPORT.	PHY	5R01 AM17372-02	46,865
DONAHOE, PATRICIA K.	MULLERIAN INHIBITING SUBSTANCE.	HED	1R01 CA17393-01	52,080
DVORAK, HAROLD F.	PATHOGENESIS OF CELLULAR IMMUNITY AND TOLERANCE.	IMB	5R01 AI09529-06	43,689
DVORAK, HAROLD F.	BASOPHILIC LEUKOCYTES IN HUMAN ALLERGIC DISEASE.	IMB	2R01 AI10496-04	57,784
DVORAK, HAROLD F.	MACROPHAGES AND THE SURFACE COAT IN TUMOR DESTRUCTION.	IMB	1R01 CA16881-01	63,376
EPP, EDWARD R.	FAST TIME PROCESSES IN CANCER RADIOBIOLOGY.	SSS	1R01 CA18614-01	93,429
ERBE, RICHARD W.	FOLATES AND DNA SYNTHESIS IN TRANSFORMED CELLS.	MBY	1R01 CA16838-01	49,873
ERBE, RICHARD W.	FOLATE METABOLISM AND MENTAL RETARDATION.	MET	2R01 HD06356-04	75,869
FISCHER, JOSEF E.	FALSE NEUROTRANSMITTERS AND HEPATIC COMA.	PHRA	5R01 AM15347-05	54,865
FISHER, CHARLES M.	CLINICOPATHOLOGIC INVESTIGATION OF STROKE.	NEUA	5R01 NS05152-12	53,105
FITZPATRICK, THOMAS B.	SPECIFIC METABOLIC APPROACH TO CHEMOTHERAPY OF MELANOMA.	ET	5R01 CA12108-05	71,097
FITZPATRICK, THOMAS B.	COOPERATIVE CLINICAL STUDY OF MALIGNANT MELANOMA.	CCI	2R10 CA13651-03	147,095
HABER, EDGAR.	SEQUENCE, SHAPE, AND SPECIFICITY OF ANTIBODIES.	ALY	5R01 AI04967-13	125,074
HABER, EDGAR.	STUDY OF ISCHEMIC HEART DISEASE.	SRC	1P17 HL17665-01	748,884
HARRIS, WILLIAM H.	STIMULATION OF FRACTURE HEALING BY DIRECT CURRENT.	SGYB	5R01 AM17106-02	59,803
HERBST, ARTHUR L.	CARCINOGENIC EFFECT OF MATERNAL STILBESTROL ON OFFSPRING.	REB	5R01 CA13139-04	145,089
HIRSCH, MARTIN S.	IMMUNE REACTIVITY AND ONCOGENIC VIRUS INFECTIONS.	IMB	5R01 CA12464-05	75,616
HIRSHFIELD, IRVIN N.	EFFECT OF METABOLITES ON LYSYL-TRNA SYNTHETASE FORMATION.	BIO	1R01 GM21592-01A1	9,857
ISSELBACHER, KURT J.	INTESTINAL CELL MEMBRANE-STRUCTURE AND FUNCTION.	MET	5R01 AM01392-19	86,572
ISSELBACHER, KURT J.	METABOLIC STUDIES OF INTESTINAL MUCOSA.	MBY	2R01 AM03014-17	59,835
ISSELBACHER, KURT J.	TUMOR ASSOCIATED CHANGES OF INTESTINAL CELLS.	CAP	5P01 CA14294-02	219,937
JACOBY, LEE B.	MUTATION AND REGULATION IN NORMAL AND NEOPLASTIC CELLS.	SSS	5R01 CA14534-03	63,586
JEANLOZ, ROGER W.	STUDY OF GLYCOPROTEINS FROM CANCER CELLS.	PC	5R01 CA08418-10	74,788
KALCKAR, HERMAN M.	GENE ACTION, ENZYME, NUCLEOTIDE, CARBOHYDRATE PATTERNS.	PC	5R01 AM05507-14	49,838
KEUTTMANN, HENRY T.	STRUCTURAL AND METABOLIC STUDIES OF FSH.	REB	1R01 HD08322-01A1	56,897



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
KRANE, STEPHEN M	STUDY OF MESENCHYMAL TISSUES AND THEIR DISEASES	SSS	5P01 AM03564-16	804,359
KUMAR, AJIT	MESSANGER RNA METABOLISM IN MAMMALIAN CELLS	MBY	1R01 CA16797-01A1	55,463
LEAF, ALEXANDER	SUPPORT FOR METABOLIC DISEASE RESEARCH CENTER	SSS	2P02 AM04501-14	534,782
LEAF, ALEXANDER	INTERNATIONAL CONFERENCE ON BIOLOGICAL MEMBRANES	NSS	1R13 AM18900-01	5,000
LEAF, ALEXANDER	INTERNATIONAL CONFERENCE ON BIOLOGICAL MEMBRANES	NSS	1R13 GM22551-01	5,000
LEAF, ALEXANDER	CARDIOPULMONARY FUNCTION IN REMEDIABLE VASCULAR DISEASE	HEP	5P01 HL06664-14	490,469
LEAF, ALEXANDER	CIRCULATION AND FUNCTION OF ISOLATED PERFUSED KIDNEY	PHY	1R01 HL17679-01A1	59,292
LEHRICH, JAMES R.	AMYOTROPHIC LATERAL SCLEROSIS - IMMUNOVIROLOGIC MODELS	PTHA	2R01 NS09675-04	73,426
MALOOF, FARAH E	TSH AS ALTERED IN THYROID DISEASE AND BY ESTROGENS	END	5R01 AM16791-04	52,768
MALT, RONALD A	STUDY OF NEPHRECTOMY AT BIRTH AND DURING GROWTH	SGYA	5R01 AM12769-10	77,323
MALT, RONALD A	ENTERIC INTERRELATIONS IN CANCER OF THE COLON	SRC	1R26 CA17324-01	43,013
MANKIN, HENRY J	NUCLEIC ACID AND PROTEIN METABOLISM IN CARTILAGE	GMA	5R01 AM16265-04	102,360
MANKIN, HENRY J	BIOCHEMICAL AND METABOLIC STUDY OF CHONDROSARCOMA	GMA	1R01 CA15614-01A1	55,272
MARTIN, DONALD B	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	SSS	5R01 AM04495-15	34,207
MARTIN, DONALD B	GLUCOSE AND INSULIN INTERACTIONS WITH CELL MEMBRANES	MET	5R01 AM13774-06	57,079
MASLAND, RICHARD H	NEUROTRANSMISSION IN MAMMALIAN RETINA	VISB	5R01 EY01075-02	42,176
MC ARTHUR, JANET W	ISOLATION OF CIRCULATING PITUITARY GONADOTROPINS	END	5R01 HD07196-03	36,208
MC CULLY, KILMER S	CONTROL OF SPECIFICITY IN PROTEIN SYNTHESIS	MBY	2R01 AM15978-07	74,012
MILLER, ALEXANDER L	CO2 AND INTERMEDIARY METABOLISM OF DEVELOPING BRAIN	MET	1R01 HD09519-01	45,624
MILLER, KEITH W	MEMBRANE CONCENTRATIONS OF DRUGS AND TOXIC COMPOUNDS	BBCB	5R01 NS11600-02	25,911
MOHR, JAY P	BEHAVIORAL DEFICITS IN POSTCARDIAC SURGERY PATIENTS	EXP	5R01 HL14888-03	48,388
ORNELLAS, EUGENE P	CEA IN UROGENITAL CARCINOMAS	SRC	5R26 CA16769-02	48,365
PFISTER, GEORGE C	A STUDY OF ARRHYTHMIAS AND ISCHEMIA DURING UROGRAPHY	RAD	1R01 AM17963-01	26,862
PLATE, JANET M	IMMUNOLOGICAL EFFECTS ON TUMOR GROWTH & REJECTION	IMB	1R01 CA17754-01	77,877
POLLEN, DANIEL A	SPATIAL SELECTIVITY IN NONSTRIATE VISUAL CORTICES	VISB	5R01 EY00597-06	67,503
POTTS, JOHN T, JR	STUDY OF HORMONAL CONTROL OF CALCIUM METABOLISM	AMP	5P01 AM11794-07	284,857
PROUT, GEORGE R, JR	HORMONAL CONTROL OF PROSTATIC CARCINOMA	END	3R01 CA12414-03S1	7,466
PROUT, GEORGE R, JR	CHEMOTHERAPY FOR PATIENTS WITH PROSTATIC CANCER	SRC	5R26 CA15284-03	9,209
PROUT, GEORGE R, JR	EVALUATION OF MANAGEMENT OF CARCINOMA OF THE BLADDER	BP	5R26 CA15944-02	128,197
RICHARDSON, GEORGE S	SEX STEROID RECEPTORS OF ENDOMETRIUM IN CULTURE	END	1R01 CA18678-01	87,673
ROBLIN, RICHARD O, III	STUDY OF CELL SURFACE CHANGES IN VIRAL ONCOGENESIS	CBY	5R01 CA15889-02	62,692
ROTH, SANFORD I	COMPARATIVE HISTOGENESIS OF HAIR AND SQUAMATE SKIN	GMA	5R01 CA10844-07	13,938
RUSSELL, PAUL S	STUDIES ON TISSUE SPECIFICITY	SGYA	5R01 AM07055-13	61,600
RUSSELL, PAUL S	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05486-13	255,345
SCHEUPLEIN, ROBERT J	PHYSICAL AND CHEMICAL NATURE OF THE CUTANEOUS BARRIER	GMA	5R01 AM15461-09	75,300
SCOTT, JESSE F	TURNOVER OF RIBOSOMAL RNA IN VIRUS TRANSFORMED CELLS	MBY	5R01 CA14630-03	30,961
SHARP, GEOFFREY W	STUDIES ON THE MECHANISM OF INSULIN RELEASE	MET	1R01 AM18460-01	75,932
SHAY, JONATHAN	CNS OXYGEN AND/OR GLUCOSE LACK IN VITRO	NEUB	1R01 NS12023-01	57,750
SHIH, VIVIAN E	NEW AMINO ACID DISORDERS IN CEREBRAL DISEASE	MET	5R01 NS05096-12	110,414
SIDMAN, MURRAY	MENTAL RETARDATION BEHAVIORAL AND NEUROLOGIC ASPECTS	HDWR	5P01 HD05124-05	389,149
SMITH, THOMAS W	IMAGING OF NORMAL AND ISCHEMIC MYOCARDIUM	CVB	5R01 HL15860-02	93,830
SUIT, HERMAN D	MODIFICATION OF TUMOR RESPONSE TO LOCAL IRRADIATION	SSS	5R01 CA13311-04	112,512
SUIT, HERMAN D	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	1P01 CA17784-01	115,755
SWANN, DAVID A	CHEMISTRY AND BIOLOGY OF VITREOUS STRUCTURAL PROTEINS	VISA	5R01 EY01030-02	43,617
SWEET, WILLIAM H	INTERRELATIONSHIPS OF NORMAL AND CANCER CELLS	CAP	5P01 CA07368-12	571,199
SWEET, WILLIAM H	INTRAVASCULAR MAGNETIC TECHNIQUES AND THE NERVOUS SYSTEM	RAD	5R01 NS09349-05	58,362
TAVERAS, JUAN M	AN INTERDEPARTMENTAL STROKE PROGRAM	NSPA	5P01 NS10828-02	261,967
TOOLE, BRYAN P	MORPHOGENETIC ROLE OF GLYCOSAMINOGLYCANS	MBY	1R01 DE04220-01	60,819
WALKER, W ALLAN	INTESTINAL UPTAKE OF MACROMOLECULES	ALY	5R01 AM16269-02	28,586
WEIR, GORDON C	MECHANISMS OF PANCREATIC GLUCAGON SECRETION	MET	1R01 AM18230-01	42,996
WEISER, MILTON M	TUMOR-ASSOCIATED INTESTINAL CELL MEMBRANE FACTORS	GMA	1R01 CA16703-01	69,062
WEISMAN, AVERY D	SUICIDE AND OTHER COPING BEHAVIOR OF CANCER PATIENTS	SUP	5R01 CA14104-03	189,229
WEISMAN, AVERY D	SUICIDE AND OTHER COPING BEHAVIOR OF CANCER PATIENTS	EDC	2R18 CA14104-04	171,908
WINN, HENRY J	STUDIES IN TRANSPLANTATION IMMUNOLOGY	IMB	5R01 AI06918-10	88,981
WINN, HENRY J	STUDIES IN TUMOR IMMUNOLOGY	IMB	1R01 CA17800-01	113,280
WRAY, SHIRLEY H	DEMYELINATION AND THE OPTIC NERVE	PTHA	5R01 NS11551-02	55,741
YOUNG, DAVID M	MOLECULAR STRUCTURE AND FUNCTION OF MUSCLE	BBCB	5R01 AM09404-10	46,992
YOUNG, DAVID M	NERVE GROWTH FACTOR FUNCTION & SECRETION BY CANCER CELLS	CBY	1R01 CA17137-01	79,451
ZAPOL, WARREN M	MEMBRANE LUNG PERFUSION FOR ACUTE RESPIRATORY FAILURE	SGYA	5R01 HL16154-02	47,989

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
ORGANIZATION TOTAL	109	11,199,173		
<b>MASSACHUSETTS OFFICE OF HUMAN SERVICES—BOSTON STATE HOSPITAL ZIP CODE 02124</b>				
GRINSPOON, LESTER.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05555-13	29,934
LOCKE, SIMEON.....	AN ANATOMICAL STUDY OF CENTRAL VESTIBULAR CONNECTIONS.....	NEUB	2R01 NS09732-02A2	38,511
ORGANIZATION TOTAL	2	68,445		
<b>NEW ENGLAND DEACONESS HOSPITAL ZIP CODE 02215</b>				
BLACKBURN, GEORGE L.....	NEW CONCEPTS IN PARENTERAL PROTEIN SPARING THERAPY.....	SGYA	7R01 GM22691-01	62,811
GREENGARD, OLGA.....	THE REGULATION OF MAMMALIAN ENZYME SYNTHESIS.....	BIO	5R01 CA08676-11	87,185
HERZFELD, ANNEMARIE.....	DEVELOPMENTAL ENZYME FORMATION IN MAMMALIAN TISSUES.....	BIO	2R01 HD04532-06	39,906
KNOX, W EUGENE.....	REGULATION OF TYROSINE AND TRYPTOPHAN METABOLISM.....	MET	5R01 AM00567-22	71,248
MC DERMOTT, WILLIAM V.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05591-11	28,198
WARREN, SHIELDS.....	RADIATION-INDUCED LEUKEMIA IN RODENTS.....	RAD	2R01 CA12944-04	43,322
ORGANIZATION TOTAL	6	332,670		
<b>NEW ENGLAND MEDICAL CENTER HOSPITAL ZIP CODE 02111</b>				
AGNELLO, VINCENT.....	STUDY OF HUMAN IMMUNE COMPLEX DISEASES.....	ALY	5R01 AM16984-03	31,380
ANDERSON, SUSAN M.....	O2 TOXICITY-PROTECTIVE MECHANISMS: ISOLATED MACROPHAGES.....	YIP	1R23 HL18368-01	38,250
BABIOR, BERNARD M.....	THE FUNCTION OF NORMAL AND MALIGNANT PHAGOCYTIC CELLS.....	BM	5R01 AI11827-02	40,391
BABIOR, BERNARD M.....	STUDY OF COENZYME B12 AND RELATED COMPOUNDS.....	BBCB	5R01 AM16589-03	57,505
BAUM, JULES L.....	HISTOCHEMISTRY OF CORNEAL DISEASE IN TISSUE CULTURE.....	VIS	5R01 EY00772-04	54,244
BAUM, JULES L.....	OCULAR PENETRATION OF ANTIBIOTICS IN A MODEL.....	VISA	1R01 EY01517-01	71,165
BLOEDORN, FERNANDO G.....	SUPPORT FOR CANCER RADIOTHERAPY CENTER.....	CAP	5P02 CA12178-05	431,556
BOREL, YVES R.....	IMMUNOLOGIC TOLERANCE TO DNA IN MURINE LUPUS NEPHRITIS.....	IMB	5R01 AI11980-02	51,207
COHEN, JORDAN J.....	STUDY OF ELECTROLYTE PHYSIOLOGY & RESPIRATORY ACID-BASE.....	CVA	5R01 HL15810-02	104,468
COHN, HERBERT E.....	FETAL CARDIOVASCULAR RESPONSE TO ASPHYXIA.....	HED	5R01 HD07681-02	44,429
CORTELL, STANLEY.....	INTRARENAL CONTROL OF SODIUM BALANCE.....	GMB	1R01 AM18446-01	58,498
DWYER, JOHANNA T.....	EFFECT OF DIET ON GROWTH OF CHILDREN.....	NTN	5R01 HD08958-02	35,074
FANBURG, BARRY L.....	LUNG METABOLISM—ENZYMES IN THE PULMONARY CIRCULATION.....	CVA	5R01 HL14456-03	40,754
FURIE, BARBARA C.....	METAL-DEPENDENT COMPLEX FORMATION IN BLOOD COAGULATION.....	HEM	1R01 HL18834-01	92,947
GORBACH, SHERWOOD L.....	CHOLERA-LIKE TOXIGENIC COLIFORM DIARRHEA IN CHILDREN.....	BM	1R22 AI13164-01	31,811
KAPLAN, MARSHALL M.....	ENZYME REGULATION IN LIVER DISEASE.....	MET	5R01 AM10571-09	52,245
KRANT, MELVIN J.....	INTERVENTIVE FAMILY THERAPY IN DYING AND BEREAVEMENT.....	SUP	5R01 CA14121-03	197,299
LEVINE, HERBERT J.....	CARDIODYNAMICS AND METABOLISM OF CONGESTIVE FAILURE.....	CVB	5R01 HL07139-14	76,580
LEWIS, ROBERT M.....	ANIMAL RESOURCE IMPROVEMENT GRANT.....	AR	3P06 RR00703-02S1	1,435
NECHELES, THOMAS F.....	COMPUTER ASSISTED CLASSIFICATION OF ACUTE LEUKEMIA.....	COM	5R01 CA15125-02	65,739
NEURATH, PETER W.....	CHROMOSOMAL VARIANTS OF CELLS CONVERTED BY VIRUSES.....	GEN	5R01 CA13763-03	105,149
NEURATH, PETER W.....	COMPUTER ASSISTED DECISION MAKING IN RADIOTHERAPY.....	RAD	1R01 CA17365-01	59,060
NEURATH, PETER W.....	QUANTITATIVE HUMAN CHROMOSOME STUDY AIDED BY COMPUTER.....	GEN	5R01 HD02860-08	62,623
ONDERDONK, ANDREW B.....	EXPERIMENTAL MODEL FOR ULCERATIVE COLITIS.....	GMA	1R01 AM18767-01	50,560
PLAUT, ANDREW G.....	PROTEOLYTIC MECHANISMS IN HUMAN COLON CONTENTS.....	ALY	5R01 AM17194-03	9,203
POHL, STEPHEN L.....	MECHANISMS OF POLYPEPTIDE HORMONE ACTION.....	MET	5R01 AM16826-02	31,580
RABEN, MAURICE S.....	ACTION AND CLINICAL EVALUATION OF GROWTH HORMONE.....	END	5R01 AM01567-19	58,863
RABEN, MAURICE S.....	HUMORAL AND METABOLIC ASPECTS OF CARDIAC FUNCTION.....	MET	5R01 HL06924-13	47,973
RABEN, MAURICE S.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05598-10	200,230
REICHLIN, SEYMOUR.....	NEURAL CONTROL MECHANISMS OF METABOLIC FUNCTIONS.....	END	5R01 AM16684-04	115,369
REICHLIN, SEYMOUR.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00054-14	179,213
SCHWARTZ, BERNARD.....	RESPONSE OF OCULAR PRESSURE TO CORTICOSTEROIDS.....	VIS	3R01 EY00024-06S1	16,339
SCHWARTZ, BERNARD.....	RESPONSE OF OCULAR PRESSURE TO CORTICOSTEROIDS.....	VISA	2R01 EY00024-07	93,397
SCHWARTZ, BERNARD.....	CHANGES IN THE OPTIC DISC IN PATIENTS WITH GLAUCOMA.....	VIS	5R01 EY00936-02	86,743
SCHWARTZ, ROBERT S.....	STUDY OF SYSTEMIC LUPUS ERYTHEMATOSUS.....	PTHA	5R01 AM09351-10	176,715
SCHWARTZ, ROBERT S.....	TRANSPLANTATION DISEASES AND LEUKEMIA.....	ALY	5R01 CA10018-09	117,119
SCHWARTZ, WILLIAM B.....	REGULATION OF ELECTROLYTE AND ACID-BASE EQUILIBRIUM.....	CVA	5R01 HL00759-25	109,878
SOKOL, SAMUEL.....	ERG AND VECP AS INDICES OF PHOTOPIC DYSFUNCTION.....	VISB	5R01 EY00926-02	21,856
TANNENBERG, WALTER J.....	RNA TUMOR VIRUSES IN SYSTEMIC LUPUS ERYTHEMATOSUS.....	VR	2R01 AI07555-07	52,986
WALLACH, DONALD F.....	PROBLEMS OF MEMBRANE BIOLOGY AND ONCOGENESIS.....	MBY	5R01 CA13061-04	71,725
ORGANIZATION TOTAL	40	3,243,558		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
<b>NORTHEASTERN UNIVERSITY      ZIP CODE 02115</b>				
ARMINGTON, JOHN C.	EFFECT OF STIMULUS ALTERNATION ON VISUAL POTENTIALS	VISB	5R01 EY00589-08	54,487
CORWIN, THOMAS R.	SURROUND FIELDS AND TEMPORAL BRIGHTNESS ENHANCEMENT	VISB	1R01 EY01570-01	27,788
FINE, SAMUEL	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07143-04	21,367
MAHUT, HELEN S.	NEUROPSYCHOLOGICAL DEVELOPMENTAL STUDY OF HIPPOCAMPUS	EXP	5R01 HD08135-02	36,799
QUICK, JAMES E.	A SYNTHETIC SCHEME FOR THE LYTHRACEAE ALKALOIDS	MCHA	1R01 NS12007-01	36,572
SIDMAN, MURRAY	READING, CROSSMODAL TRANSFER, AND STIMULUS CONTROL	EXP	5R01 HD07075-02	50,833
SKAVENSKI, ALEXANDER A.	EYE-POSITION INFORMATION PROCESSED IN FRONTAL CORTEX	VIS	5R01 EY01049-03	29,609
SOLOWAY, ALBERT H.	CHEMOIMMUNOTHERAPEUTIC AGENTS FOR CANCER	MCHA	1R01 CA15684-01A1	35,714
WEISS, KARL	LASER RADIATION IN PHOTOCHEMISTRY AND PHOTOBIOLOGY	BBCA	2R01 ES00376-12	41,731
ORGANIZATION TOTAL	9	334,900		
<b>PETER BENT BRIGHAM HOSPITAL      ZIP CODE 02115</b>				
BRAUNWALD, EUGENE	CARDIOVASCULAR RESEARCH PROGRAM	HEP	5R01 HL11306-09	120,541
BRAUNWALD, EUGENE	STUDY OF CARDIOVASCULAR PHYSIOLOGIC CONTROL MECHANISMS	CVA	5R01 HL15416-03	118,034
BRAUNWALD, EUGENE	GENERAL CLINICAL RESEARCH CENTER	CLR	1M01 RR00888-01	1,237,100
BUNN, H. FRANKLIN	HEMOGLOBIN A1C IN PATIENTS WITH DIABETES MELLITUS	HEM	1R01 AM18223-01	59,109
BUNN, H. FRANKLIN	FUNCTIONAL STUDY OF NORMAL AND ABNORMAL HEMOGLOBINS	BBCB	5R01 HL16927-02	62,961
CAREY, MARTIN C.	ALIMENTARY TRACT LIPIDS IN HEALTH AND DISEASE	GMA	1R01 AM18559-01	69,099
CARPENTER, CHARLES B.	NATURE & CONTROL OF LYMPHOCYTE MEDIATED CYTOTOXICITY	IMB	5R01 CA16937-02	65,986
COTRAN, RAMZI S.	STUDY OF CARDIOPULMONARY AND RENAL PATHOLOGY	HEP	5P01 HL06370-14	246,983
DEXTER, LEWIS	PULMONARY CIRCULATION AND PULMONARY EMBOLISM	CVA	5R01 HL12439-06	75,604
FALCHUK, Z. MYRON	PATHOGENESIS OF CELIAC SPRUE AND REGIONAL ENTERITIS	GMA	5R01 AM17684-02	46,800
HANDIN, ROBERT I.	ROLE OF PF-4 IN DETECTING AND PROMOTING THROMBOSIS	HEM	1R01 HL17513-01	34,698
HASSAN, WILLIAM E., JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05489-13	155,170
HOLLENBERG, NORMAN K.	RENAL VASCULAR REACTIVITY IN THE HYPERTENSIVE PATIENT	CVB	5R01 HL14944-03	34,445
INGRAM, ROLAND H., JR.	STUDY OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE	CVA	5R01 HL16463-02	40,312
LARSEN, PHILIP R.	THE PHYSIOLOGICAL ROLE OF THYROXINE-BINDING PROTEIN	END	7R01 AM18616-01	37,152
MC FADDEN, E. R., JR.	PATHOPHYSIOLOGY OF EXERCISE-INDUCED ASTHMA	CVA	1R01 HL17873-01	20,571
MIRSKY, ISRAEL	A MATHEMATICAL APPROACH TO CARDIOVASCULAR MECHANICS	COM	5R01 HL12711-06	46,500
O'BRIEN, THOMAS F.	SPECIFIC ANTIBIOTIC EFFECTS ON PATIENT FLORA	BM	1R01 A112860-01	20,081
OKEN, DONALD E.	MICROPUNCTURE STUDY OF RENAL PROTEIN TRANSPORT	GMB	5R01 AM10919-09	71,556
POLET, HERMAN	THE MIXED LYMPHOCYTE CULTURE AND KIDNEY GRAFT SURVIVAL	SGYA	5R01 AM17158-02	27,877
REYNOLDS, EDWARD S.	DETECTION OF INJURY IN CELLULAR MEMBRANE SYSTEMS	PTHB	5R01 AM16183-04	52,550
SANYAL, MRINAL K.	PROGESTERONE METABOLISM IN HUMAN FETOPLACENTAL UNIT	END	5R01 HD06057-03	30,456
SMITH, THOMAS W.	DIGITALIS: MECHANISM AND REVERSAL STUDIES	SSS	1R01 HL18003-01	93,441
SOLOMON, HAROLD S.	HYPERTENSION—EDUCATION MODELS TO IMPROVE ADHERENCE	HBP	1R25 HL18423-01	198,463
SONNENBLICK, EDMUND H.	CARDIOVASCULAR RESEARCH PROGRAM	HEP	3P01 HL11306-08S1	366
TRIER, JERRY S.	METABOLISM AND CELL RENEWAL OF COLON PRECANCER & CANCER	SRC	1R26 CA17505-01	59,132
VATNER, STEPHEN F.	MYOCARDIAL ISCHEMIA	CVB	1R01 HL17459-01A1	51,387
WEGLIICKI, WILLIAM B.	MYOCARDIAL ORGANELLE LIPID STRUCTURE AND FUNCTION	CBY	5R01 HL13167-06	129,330
WILLIAMS, GORDON H.	ANGIOTENSIN RECEPTORS	CVB	1R01 HL16821-01	59,522
ORGANIZATION TOTAL	29	3,265,226		
<b>ROBERT B. BRIGHAM HOSPITAL      ZIP CODE 02120</b>				
AUSTEN, K. FRANK	IN VITRO STUDIES OF THE MECHANISM OF ANAPHYLAXIS	IMB	2R01 A107722-09	166,295
AUSTEN, K. FRANK	IMMUNOLOGIC RELEASE OF CHEMICAL MEDIATORS IN MAN	AIRC	5P15 A110356-05	158,945
AUSTEN, K. FRANK	CLINICAL RESEARCH UNIT IN RHEUMATIC DISEASES	AMP	5P02 AM05577-14	154,579
AUSTEN, K. FRANK	CHEMICAL MEDIATORS OF ACUTE PULMONARY DISORDERS	HEP	1P01 HL17382-01	185,371
AUSTEN, K. FRANK	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05669-08	79,221
BROAS, DONALD S.	ANIMAL CARE EQUIPMENT WASHING SYSTEM	AR	1P06 RR00972-01	23,385
DAVID, JOHN R.	STUDIES ON CELLULAR HYPERSENSITIVITY	ALY	2R01 A107685-10	161,909
DAVID, JOHN R.	MACROPHAGE ACTIVATION AND CELLULAR IMMUNITY	ALY	5R22 A110921-04	42,584
REMOLD, HEINZ G.	MACROPHAGE INTERACTIONS WITH LYMPHOCYTE MEDIATORS	IMB	5R01 A112110-02	60,316
ROCKLIN, ROSS E.	MECHANISMS OF CELLULAR HYPERSENSITIVITY IN MAN	ALY	5R01 A111729-02	48,284
SCHUR, PETER H.	CHARACTERIZATION OF B & T LYMPHOCYTES IN LYMPHOMA	IMB	1R01 CA17615-01	17,665
STEINBERG, JAMES	CHONDROCYTE-MATRIX INTERACTIONS IN ARTHRITIC DISEASE	GMA	1R01 AM18268-01	54,855
ORGANIZATION TOTAL	12	1,153,409		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
<b>SIDNEY FARDER CANCER CENTER</b>	<b>ZIP CODE 02115</b>			
FREI, EMIL, III	CANCER CENTER SUPPORT GRANT COMPREHENSIVE	CAP	3P01 CA06516-12S1	260,016
FREI, EMIL, III	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17979-01	119,718
FREI, EMIL, III	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 R05526-13	236,786
ISRAEL, MERVYN	PREPARATION OF ADRIAMYCIN ANALOGS AND DERIVATIVES	MCHA	1R01 CA17263-01	89,856
MODEST, EDWARD J.	BIOCHEMICAL PHARMACOLOGY OF NEW ACTINOMYCIN D ANALOGS	ET	1R01 CA17409-01	43,147
PARDEE, ARTHUR B.	REGULATION OF CELLULAR SYNTHESIS AND ACTIVITIES	MBY	1R01 CA18612-01	124,170
REINISCH, CAROL L.	SV 40 POTENTIATION OF IMMUNE RESPONSIVENESS TO TUMORS	VR	5R01 CA15679-02	53,213
SAMY, T S.	PHARMACOLOGY OF ANTITUMOR PROTEIN NEOCARZINOSTATIN	ET	1R01 CA17305-01	80,999
SCHLOSSMAN, STUART F.	STUDY OF ISOLATION AND GENETIC CONTROL OF IMMUNOCYTES	ALY	5R01 A112069-02	131,391
SLAYTER, HENRY S.	ELECTRON MICROSCOPY OF MACROMOLECULAR SYSTEMS	MBY	5R01 GM14237-09S1	6,044
YANKEE, RONALD A.	LEUKEMIA CENTER (PLATELET) PROGRAM	CCI	2R10 CA08855-09	62,315
YERGANIAN, GEORGE	INBRED DWARF HAMSTERS FOR BIOMEDICAL RESEARCH	AR	5R01 CA12365-04	96,918
YERGANIAN, GEORGE	CHROMOSOME MUTAGENESIS AND CARCINOGENIC POTENTIATION	GEN	1R01 ES00731-01	36,204
ORGANIZATION TOTAL	13	1,340,777		
<b>ST. ELIZABETH'S HOSPITAL OF BOSTON</b>	<b>ZIP CODE 02135</b>			
BRAVERMAN, LEWIS E.	REGULATION OF THYROID FUNCTION, T4 AND T3 KINETICS	END	5R01 AM07917-11	55,280
EBBE, SHIRLEY N.	KINETICS OF MEGAKARYOCYTE AND PLATELET TURNOVER	SSS	5R01 AM08263-12	81,958
EBBE, SHIRLEY N.	REGULATION OF HEMOPOIESIS	HEM	5R01 HL07542-13	152,591
EBBE, SHIRLEY N.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 R05587-07	36,588
MILLER, MARILYN E.	DISSOCIATION CURVE AND ERTHROPOIETIN PRODUCTION	HEM	5R01 HL16217-02	48,207
ORGANIZATION TOTAL	5	374,624		
<b>ST. MARGARET'S HOSPITAL</b>	<b>ZIP CODE 02125</b>			
MITCHELL, GEORGE W., JR.	HOST-PARASITE RELATIONSHIPS IN PREGNANCY	BM	5R01 HD01805-10	46,125
ORGANIZATION TOTAL	1	46,125		
<b>TUFTS UNIVERSITY</b>	<b>ZIP CODE 02111</b>			
BORYSENKO, JOAN Z.	CONTROL OF SURFACE PHENOMENA IN VIRAL TRANSFORMATION	SSS	1R01 CA17328-01	40,730
BOYD, DANA H.	FUNCTION OF STRUCTURES INVOLVED IN TRANSCRIPTION	BIO	1R01 GM22170-01	58,828
BRAWERMAN, GEORGE	THE ROLE OF NUCLEIC ACIDS IN CELL DIFFERENTIATION	BIO	5R01 GM17973-05	57,009
CATHOU, RENATA E.	CONFORMATION AND STRUCTURAL DYNAMICS OF ANTIBODIES	ALY	5R01 A110115-05	40,113
CAVAZOS, LAURO F.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 R05382-14	196,474
COFFIN, JOHN M.	RELATIONSHIP OF AVIAN TUMOR VIRUS RNA AND HOST GENOME	VR	1R01 CA17659-01	100,466
COHEN, JONATHAN	ASSAY OF TISSUE REACTION TO IMPLANTED MATERIALS	AFY	9R01 AM18591-03	71,828
COOPER, AMIEL G.	STRUCTURE AND SYNTHESIS OF LEUKEMIC PLASMA MEMBRANES	IMB	1R01 A112875-01	78,760
COOPER, AMIEL G.	BLOOD-GROUP ANTIGENS ON TUMOR CELL MEMBRANES	PTHB	5R01 CA14420-03	43,380
DRYSDALE, JAMES W.	FERRITIN SYNTHESIS IN NORMAL AND MALIGNANT CELLS	PTHA	5R01 AM16781-03	59,192
DRYSDALE, JAMES W.	MAMMALIAN ISOFERRITINS—STRUCTURE AND METABOLISM	SSS	5R01 AM17775-02	32,637
DRYSDALE, JAMES W.	DNA-DEPENDENT RNA POLYMERASES: NORMAL & MALIGNANT CELLS	BIO	5R01 CA14406-03	42,002
DVORAK, ANN M.	BASOPHIL/MAST CELL FUNCTION IN THE CONTROL OF CANCER	PTHB	5R01 CA15136-02	58,709
FISHMAN, WILLIAM H.	SUPPORT FOR CANCER RESEARCH CENTER	CAK	3P02 CA12924-03S1	92,541
FISHMAN, WILLIAM H.	CARCINOEMBRYONIC PROTEINS & NEOPLASTIC TRANSFORMATION	CAK	2P02 CA12924-04	689,258
FISHMAN, WILLIAM H.	FUNDAMENTAL ENZYMOLOGIC STUDIES APPLIED TO ONCOLOGY	PTHB	5R01 CA13332-04	123,698
FORGIONE, ALBERT G.	STUDY OF METHODS TO CONTROL BRUXISM	DEN	5R23 DE03968-02	10,515
GOLDBERG, EDWARD B.	GENETIC CONTENT AND RECOMBINATION OF DNA FRAGMENTS	GEN	5R01 GM13511-10	60,246
GUREWICH, VICTOR	PATHOGENESIS OF PULMONARY THROMBOEMBOLIC DISEASE	PTHA	5R01 HL09203-11	94,048
HADDAD, ABRAHAM W.	QUANTITATIVE ELECTROSURGERY AND RELATED HISTOPATHOLOGY	DEN	5R23 DE03971-02	6,595
HUGHES, WALTER L.	POPULATION KINETICS OF TUMORS IN VIVO	ET	5R01 CA10735-08	81,212
HUSAIN, SYED S.	INVESTIGATION OF TISSUE SULFHYDRYL PROTEINASES	BIO	5R01 GM20680-02	24,845
JACOBSON, STANLEY	SITES OF CALLOSAL, THALAMIC, AND ASSOCIATIONAL SYNAPSES	NEUB	5R01 NS07666-08	25,928
KISLIUK, ROY L.	FOLATE ENZYMES, COENZYMES, AND ANALOGS	ET	2R01 CA10914-07	58,678
KRINSKY, NORMAN I.	MECHANISM OF PROTECTIVE ACTION OF CAROTENOIDS	BBCA	5R01 AM17745-02	29,576
LESKOWITZ, SIDNEY	CELLULAR ASPECTS OF TOLERANCE & DELAYED HYPERSENSITIVITY	IMB	2R01 A110895-04	93,428
LESKOWITZ, SIDNEY	MECHANISMS OF IMMUNOLOGIC INJURY TO TUMORS	SSS	1R01 CA17220-01	68,165
LEWIS, ROBERT M.	RESEARCH ANIMAL DIAGNOSTIC LABORATORY	AR	3P06 R000683-03S1	14,992
LIN, CHI-WEI	HISTAMINASE AS A CANDIDATE CARCINOPLACENTAL ISOENZYME	BIO	1R01 CA17194-01	41,631
MAUTNER, HENRY G.	STUDIES OF POTENTIAL ANTICANCER AGENTS	MCHA	5R01 CA12186-05	36,659

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
MAUTNER, HENRY G	STUDIES OF SOME BIOCHEMICAL ASPECTS OF NERVE FUNCTION	PHRA	5R01 NS09608-06	43,916
MAJJAR, VICTOR A	TISSUE ENZYMES AND PLASMA PROTEINS	PC	2R01 AO9116-07	92,414
NATHANSON, LARRY	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17983-01	120,088
O'HARE, KAREN H	LUNG SURFACTANT SYSTEM - MULTIDISCIPLINARY STUDY	CVA	5R01 HL15316-03	31,087
OFNER, PETER	PROSTATIC DIFFERENTIATION AND SEX HORMONE METABOLISM	END	1R01 CA15776-01A1	68,181
PARK, JAMES T	CHEMISTRY AND BIOSYNTHESIS OF MICROBIAL CELL WALLS	MBG	5R01 AI05090-14	78,380
RESNICK, ROBERT H	DISTAL SPLENORENAL VS PORTALSYSTEMIC ANASTOMOSIS	SGYB	1R01 AM18702-01	46,625
SCHAECHTER, MOSELIO	PHYSIOLOGICAL STUDIES OF BACTERIAL GROWTH	MBG	5R01 AO15103-12	36,424
SCHAECHTER, MOSELIO	BACTERIAL CELL MEMBRANE ROLE IN GROWTH AND CELL DIVISION	MBG	2R01 AO19465-06	57,628
SCHMIDT, GERHARD	METABOLIC STUDIES WITH PLASMALOGENS AND SPHINGOLIPIDS	PC	2R01 NS11250-02A1	20,705
SHIRA, ROBERT B	OCCCLUSION RESEARCH PROGRAM	SSS	5R01 DE03695-03	78,946
SHIRA, ROBERT B	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05319-14	19,620
SILBERT, JEREMIAH E	METABOLISM OF GLYCOSAMINOGLYCANS	PC	5R01 AM08816-11	23,438
SONENSCHEIN, ABRAHAM L	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION	MBG	5R01 GM19168-04	38,369
SONENSCHEIN, CARLOS	MECHANISM OF HORMONE ACTION ON TARGET CELLS IN CULTURE	PTHB	5R01 CA13410-03	50,813
STOLBACH, LEO L	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA07190-13	113,811
TERRES, GERONIMO, JR	THE CONTROL OF IMMUNITY IN MICE TO L1210/MTX LEUKEMIA	IMB	5R01 CA14409-03	43,628
TEVETHIA, SATVIR S	BIOLOGY OF SV-40 SPECIFIC TRANSPLANTATION ANTIGEN	VR	5R01 CA14939-03	117,976
VAAGE, JAN	STUDY OF IMMUNOTHERAPY OF MAMMARY TUMORS	IMB	5R01 CA15960-02	101,086
VAAGE, JAN	IN VITRO ASSAY OF TUMOR IMMUNITY	IMB	5R01 CA16039-02	34,390
VAAGE, JAN	RADIATION EFFECTS ON ESTABLISHED TUMOR IMMUNITY	RAD	1R01 CA16683-01	110,361
WEINSTEIN, RONALD S	CELL MEMBRANE INTERRELATIONSHIPS IN HUMAN CANCER	PTHB	5R01 CA14447-03	57,792
WOLFE, HUBERT J	C-CELL HYPERPLASIA AND THYROID MEDULLARY CARCINOMA	PTHA	1R01 CA17389-01	69,840
WRIGHT, ANDREW	STRUCTURE AND FUNCTION OF LIPIDS IN THE CELL MEMBRANE	MBY	5R01 GM15837-08	39,810
ORGANIZATION TOTAL	54	3,927,471		
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 02135</b>				
THURM, RICHARD H	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	TEC	5R01 HL10717-09	44,658
ORGANIZATION TOTAL	1	44,658		
<b>UNIVERSITY HOSPITAL ZIP CODE 02118</b>				
BRANDT, KENNETH D	PROTEOLYCATS IN AGING AND OSTEOARTHRITIC CARTILAGE	PC	5R01 AM17215-02	55,342
CHOBANIAN, ARAM V	STUDY OF HYPERTENSION, SHOCK, AND CIRCULATORY FAILURE	HEP	5P01 HL07299-14	450,162
COFFMAN, JAY D	ANTILEPIMIC REGIMES IN PERIPHERAL ARTERIOSCLEROSIS	CVA	5R01 HL13654-04	42,274
COFFMAN, JAY D	PERIPHERAL CIRCULATORY STATUS IN MYOCARDIAL INFARCTION	CVA	2R01 HL14350-03	21,993
COFFMAN, JAY D	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05487-13	160,662
EGDAHL, RICHARD H	STUDY OF BIOCHEMICAL AND PHYSIOLOGIC RESPONSE TO TRAUMA	SSS	5P01 GM17366-05	278,784
FELDMAN, ROBERT G	DIAGNOSIS AND THERAPY OF CHRONIC CHILDHOOD PLUMBISM	TOX	5R01 ES00902-03	18,664
HARRIS, LAURAN D	MEASUREMENT AND CONTROL OF SPHINCTER STRENGTH	GMA	5R01 AM11907-08	85,197
HOLLANDER, WILLIAM	DRUG TREATMENT OF ATHEROSCLEROSIS	PHRA	5R01 HL16437-02	52,629
JACOBS, A ALICE	CELLULAR INTERACTIONS IN LUNG RESISTANCE TO INFECTION	SRC	7R23 HL18465-01	20,438
KRAMSCH, DIETER M	PRIMATE MODEL FOR STUDY OF CORONARY HEART DISEASE	CVB	5R01 HL15512-03	88,069
KRAMSCH, DIETER M	EXERCISE AND CORONARY ATHEROSCLEROTIC HEART DISEASE	CVB	1R01 HL18060-01	85,779
MC CABE, WILLIAM R	DEFENSE MECHANISMS IN GRAM-NEGATIVE BACTEREMIA	BM	5R01 AI09584-06	46,473
MC CABE, WILLIAM R	BIOLOGY AND IMMUNOLOGY OF GRAM-NEGATIVE BACILLI	ALY	5R01 AI11116-03	78,159
MELBY, JAMES C	SUPPORT FOR CLINICAL METABOLIC RESEARCH UNIT	AMP	5P02 AM08657-11	199,420
MELBY, JAMES C	MECHANISMS REGULATING ADRENOCORTICAL SECRETION	END	5R01 AM12027-08	96,372
MELBY, JAMES C	STUDY OF MINERALOCORTICOID HYPERTENSION	GMB	5R01 HL15732-03	59,501
ROMANUL, FLAVIU C	HISTOCHEMICAL STUDIES OF NEURAL INFLUENCES ON MUSCLE	NEUB	5R01 NS11190-02	44,621
SCHILLING, ALBERT	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA11109-07	59,989
STRAUSS, JOHN S	EVALUATION OF PATHOGENIC FACTORS IN ACNE VULGARIS	GMA	5R01 AM07388-13	123,493
YABLON, ISADORE G	THE CAUSE OF JOINT HOMOGRAFT FAILURE	IMB	1R01 AM17730-01	52,390
ORGANIZATION TOTAL	21	2,120,411		
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM-UNIVERSITY OF MASSACHUSETTS AT BOSTON ZIP CODE 02125</b>				
ANSELME, JEAN-PIERRE L	STUDY OF SYNTHESIS OF N-AZIDAMINES	MCHA	5R01 GM13689-09	32,040
LAUFER, DANIEL A	SYNTHESIS AND CONFORMATION OF CYCLIC TETRAPEPTIDES	MCHA	5R01 GM19645-03	36,633
MARGULIS, THOMAS N	STRUCTURE OF COLCHICINE RELATED ANTIMITOTIC DRUGS	BBCA	1R01 CA17436-01	40,100
WHITE, RICHARD H	PHYSIOLOGY OF PHOTORECEPTORS OF LARVAL MOSQUITOES	VIS	5R01 EY01012-03	21,129
ORGANIZATION TOTAL	4	129,902		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
<b>CAMBRIDGE</b>				
<b>BAY BIOCHEMICAL RESEARCH      ZIP CODE 02138</b>				
BLOUT, ELKAN R.....	POLYPEPTIDE MARINE TOXINS.....	TOX	1R01 HL16886-01A1	44,458
ORGANIZATION TOTAL	1      44,458			
<b>BIO-RESEARCH INSTITUTE      ZIP CODE 02141</b>				
HOMBURGER, FREDDY.....	NEW ANIMAL MODELS OF CHEMICAL CARCINOGENESIS.....	SSS	5R01 CA13232-04	154,664
HOMBURGER, FREDDY.....	A HAMSTER MODEL FOR HUMAN BLADDER CANCER.....	SRC	2R26 CA15033-03	61,780
HOMBURGER, FREDDY.....	STUDY OF COLONIC CANCER IN INBRED SYRIAN HAMSTERS.....	SRC	5R26 CA15425-02	57,192
HOMBURGER, FREDDY.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05525-13	43,999
ORGANIZATION TOTAL	4      317,635			
<b>CHARLES STARK DRAPER LABORATORY      ZIP CODE 02139</b>				
DEW, BROCK S.....	AUTOMATIC CYTOLOGY INSTRUMENTATION DEVELOPMENT.....	COM	2R01 GM21817-02	80,409
ORGANIZATION TOTAL	1      80,409			
<b>HARVARD UNIVERSITY      ZIP CODE 02138</b>				
BLOCH, KONRAD E.....	BIOSYNTHESIS AND FUNCTION OF LIPIDS.....	PC	2R01 HL02477-19	174,892
BOGORAD, LAWRENCE.....	MOLECULAR MECHANISMS OF INTRACELLULAR INTEGRATION.....	MBY	5R01 GM20470-03	74,334
BRANTON, DANIEL.....	ORGANIZATION OF NORMAL AND TRANSFORMED CELL MEMBRANES.....	SSS	5R01 GM20396-03	119,322
BRANTON, DANIEL.....	MOLECULAR STUDIES OF RED BLOOD CELL SPECTRIN.....	BBCB	1R01 HL17411-01	32,520
COREY, ELIAS J.....	ANTITUMOR/ANTIBIOTIC SUBSTANCES: SYNTHESIS & CHEMISTRY.....	MCHA	1R01 CA16421-01	237,160
COREY, ELIAS J.....	COMPUTER-ASSISTED ANALYSIS OF CHEMICAL SYNTHESIS.....	COM	5R01 GM18519-05	110,110
CROMPTON, ALFRED W.....	CONTROL AND VARIATION IN MASTICATION IN MAMMALS.....	DEN	2R01 DE03219-07	50,504
DOTY, PAUL M.....	CHROMATIN, SPECIAL GENES AND RNA IN DEVELOPMENT.....	MBY	5R01 HD01229-24	201,696
DOWLING, JOHN E.....	ANATOMICAL ORGANIZATION OF THE VISUAL SYSTEM.....	NEUB	5R01 EY00811-04	46,796
DOWLING, JOHN E.....	FUNCTIONAL ORGANIZATION OF VERTEBRATE VISUAL SYSTEMS.....	NEUB	5R01 EY00824-05	63,133
DRESSLER, DAVID H.....	MOLECULAR MECHANISMS IN DNA REPLICATION.....	GEN	5R01 GM17088-06	82,782
ELGIN, SARAH C.....	NONHISTONE CHROMOSOMAL PROTEINS.....	MBY	5R01 GM20779-02	45,088
GILBERT, WALTER.....	ROLE OF RIBONUCLEIC ACID IN PROTEIN SYNTHESIS.....	GEN	5R01 GM09541-14	250,250
GILBERT, WALTER.....	INTERACTION OF PROTEINS WITH DNA.....	SSS	1R01 GM21514-01	62,822
GOETHALS, GEORGE W.....	CLINICAL & CROSS-CULTURAL STUDY OF FAMILY RELATIONSHIPS.....	POP	5R01 HD07806-02	46,644
GREEN, DAVID M.....	STUDY OF MECHANISMS OF AUDITORY MASKING.....	EXP	5R01 NS11620-02	97,600
GUIDOTTI, GUIDO.....	STRUCTURE AND FUNCTION OF MEMBRANE PROTEINS.....	BBCB	2R01 HL08893-11	91,658
HARRISON, STEPHEN C.....	VIRUS STRUCTURE AND ASSEMBLY.....	BBCB	2R01 CA13202-04	71,136
HASTINGS, JOHN W.....	MOLECULAR AND CELLULAR MECHANISMS OF BIOLOGICAL RHYTHMS.....	CBY	5R01 GM19536-03	66,192
KAFATOS, FOTIS C.....	SUPPORT OF CENTRAL LABORATORY FOR ELECTRON MICROSCOPY.....	MBY	5R01 GM06637-16	41,161
KAFATOS, FOTIS C.....	STUDIES IN DEVELOPMENTAL BIOLOGY.....	MBY	2R01 HD04701-06	72,000
KARPLUS, MARTIN.....	ELECTRONIC STRUCTURE OF BIOMOLECULES.....	BBCA	5R01 EY00062-06	32,191
KESSIN, RICHARD H.....	GENETIC CONTROL OF CELL ADHESION IN D. DISCOIDEUM.....	GEN	1R01 GM21809-01	70,668
KISHI, YOSHITO.....	SYNTHETIC STUDIES ON COMPLEX NATURAL PRODUCTS.....	MCHA	1R01 NS12108-01	132,355
KLOTZ, LYNN C.....	PHYSICAL STUDIES OF DNA RENATURATION KINETICS.....	BBCB	5R01 GM20798-02	8,583
KNOWLES, JEREMY R.....	ENZYME-CATALYSED PHOSPHATE TRANSFER REACTIONS.....	BIO	1R01 GM21659-01	103,199
KOHLBERG, LAWRENCE.....	THE MEASUREMENT OF STAGES OF MORAL DEVELOPMENT.....	DBR	2R01 HD04128-07	79,544
LEVINE, ROBERT P.....	COMPLEMENT ACTION ON MEMBRANES USING MYCOPLASMA MUTANTS.....	MBY	1R01 AI12885-01	53,646
LEWONTIN, RICHARD C.....	GENETIC VARIATION OF PROTEINS IN NATURAL POPULATIONS.....	SSS	5R01 GM21179-02	108,660
LIPSCOMB, WILLIAM N.....	MOLECULAR STRUCTURE OF BIOLOGICALLY ACTIVE MOLECULES.....	BBCA	5R01 GM06920-16	228,469
LOEBLICH, ALFRED R, III.....	DNA AND CHROMOSOMES OF DINOFAGELLATES.....	MBY	2R01 GM19519-04	73,207
LOSICK, RICHARD J.....	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION.....	MBC	5R01 GM18568-03	60,039
MANSFIELD, RICHARD J.....	CENTRAL NEURAL MECHANISMS IN VISION.....	VISB	1R01 EY01455-01A1	31,257
MC CLURE, WILLIAM R.....	MECHANISM AND REGULATION OF E. COLI RNA POLYMERASE.....	MBC	3R01 GM21052-01S1	4,634
MESELSON, MATTHEW S.....	DEVELOPMENT OF METHOD FOR DETECTION OF DIOXIN.....	TOX	2R01 ES00851-03	65,618
MESELSON, MATTHEW S.....	NUCLEAR AND MESSENGER RNA OF DROSOPHILA.....	MBY	1R01 GM22274-01	49,496
PTASHNE, MARK S.....	BIOLOGICAL INVESTIGATIONS WITH ISOTOPES.....	MBY	5R01 GM05365-18	64,505
PTASHNE, MARK S.....	EQUIPMENT FOR SEQUENCING DNA MOLECULES.....	MBC	3R01 GM21050-01S1	19,553
RADIN, ERIC L.....	AN INVESTIGATION OF JOINT DEGENERATION.....	SGYB	3R01 AM18069-01S1	3,000
RADIN, ERIC L.....	AN INVESTIGATION OF JOINT DEGENERATION.....	SGYB	5R01 AM18069-02	84,147



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
ROSENKRANTZ, BARBARA G.....	DIAGNOSIS AND TREATMENT OF ASYLUM INMATES 1824-1860.....	SSS	1R01 LM02355-01	77,416
ROSOVSKY, HENRY.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07046-10	70,388
STROMINGER, JACK L.....	BIOCHEMISTRY OF MECHANISM OF ACTION OF ANTIBIOTICS.....	MBC	2R01 AI09152-07	71,488
STROMINGER, JACK L.....	CHEMICAL AND SEROLOGICAL STUDIES OF LYMPHOCYTE SURFACES.....	IMB	5R01 AI09576-06	51,952
STROMINGER, JACK L.....	BIOSYNTHESIS OF COMPLEX POLYSACCHARIDES.....	PC	2R01 AM13230-07	44,537
SYKES, BRIAN D.....	STUDY OF ENZYME KINETICS BY NUCLEAR MAGNETIC RESONANCE.....	BBCB	5R01 GM17190-06	38,115
TAYLOR, C RICHARD.....	LOCOMOTION: IDLING METABOLISM AND GAIT DYNAMICS.....	AFY	1R01 AM18140-01	49,713
TAYLOR, DOUGLASS L.....	MUSCLE CONTRACTION AND CYTOPLASMIC STREAMING.....	CBY	1R01 AM18111-01	97,521
WALD, GEORGE.....	CHEMISTRY AND PHYSIOLOGY OF VISUAL EXCITATION.....	VISB	2R01 EY00508-06	83,402
WARE, BENNIE R.....	LASER DOPPLER INVESTIGATION OF PROTOPLASMIC STREAMING.....	BBCB	1R01 GM21910-01	30,656
WESTHEIMER, FRANK H.....	MECHANISM OF ENZYME ACTION.....	PC	5R01 GM04712-19	73,844
WILLIAMS, CARROLL M.....	NEW STRATEGIES IN THE SELECTIVE CONTROL OF INSECTS.....	TMP	1R01 AI12604-01	93,357
WOODWARD, ROBERT B.....	STUDIES IN THE CHEMISTRY OF NATURAL PRODUCTS.....	MCHB	5R01 GM04229-21	226,717
ORGANIZATION TOTAL	53	4,319,677		
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY ZIP CODE 02139</b>				
ADELSTEIN, STANLEY J.....	NUCLEAR TECHNIQUES IN METABOLISM & BONE DISEASE.....	SSS	1R01 AM17930-01	262,050
ADLER, RICHARD B.....	SEMICONDUCTOR DETECTORS FOR GAMMA CAMERA APPLICATIONS.....	RAD	1R01 GM21605-01	34,233
BAKER, RAYMOND M.....	MEMBRANE MUTANTS OF CULTURED MAMMALIAN CELLS.....	GEN	1R01 GM21665-01	52,135
BALDWIN, JACK E.....	CHEMISTRY AND BIOSYNTHESIS OF ANTIBIOTICS.....	MCHA	1R01 AI11997-01	55,912
BALDWIN, JACK E.....	CHELATING AGENTS AS BLOOD SUBSTITUTES.....	MCHB	1R01 HL17794-01	61,684
BALTIMORE, DAVID.....	POLIOVIRUS SYNTHESIS AND TRANSLATION OF VIRAL RNA.....	VR	5R01 AI08388-08	73,279
BARRETT, ALAN H.....	NONINVASIVE SENSING OF SUBCUTANEOUS TEMPERATURES.....	AFY	3R01 GM20370-02S1	15,511
BENEDEK, GEORGE B.....	PHYSICAL AND CHEMICAL BASIS OF LENS OPACITY.....	VISA	5R01 EY00797-04	121,472
BERCHTOLD, GLENN A.....	INVESTIGATION OF METABOLIC SYSTEMS.....	MCHA	2R01 GM19103-04	65,000
BIEMANN, KLAUS.....	MASS SPECTROMETRIC SEQUENCING OF PROTEINS.....	MCHB	5R01 GM05472-17	59,786
BIEMANN, KLAUS.....	SUPPORT FOR MASS-SPECTROMETRY FACILITY.....	MCHB	2P07 RR00317-08	187,277
BIZZI, EMILIO.....	STUDY OF EYE-HEAD COORDINATION.....	VISB	5R01 NS09343-05	76,812
BOTSTEIN, DAVID.....	DNA REPLICATION OF PHAGE P22.....	GEN	2R01 GM18973-04	44,392
BOTSTEIN, DAVID.....	MOLECULAR GENETICS OF MORPHOGENETIC PATHWAYS.....	GEN	3R01 GM21253-01S1	9,961
BROWN, GENE M.....	BIOSYNTHESIS OF B VITAMINS.....	MBC	5R01 AM03442-16	49,562
BROWNELL, GORDON L.....	A FAST SENSITIVE PROPORTIONAL CHAMBER FOR IMAGING.....	SSS	1R01 GM22675-01	62,319
BUCHANAN, JOHN M.....	NUCLEOTIDE AND NUCLEIC ACID METABOLISM.....	MBC	5R01 CA02015-22	111,497
BUCHI, GEORGE H.....	THE CHEMISTRY OF NATURAL PRODUCTS.....	MCHB	5R01 GM09686-14	125,405
CAREY, SUSAN E.....	DEVELOPMENT OF VISUAL FORM RECOGNITION IN CHILDREN.....	DBR	1R01 HD09179-01	17,677
COHEN, DAVID.....	MAGNETIC TRACERS FOR THE DIAGNOSIS OF LUNG DISEASE.....	PTHA	1R01 HL17543-01	79,291
EDEN, MURRAY.....	USE OF COMPUTERS IN RECOGNITION OF BIOMEDICAL PATTERNS.....	SSS	2P01 GM19428-04	290,387
EISEN, HERMAN N.....	STUDY OF IMMUNITY TO MYELOMA TUMORS.....	IMB	5R01 CA15472-02	161,988
FOX, JAMES G.....	ANIMAL RESOURCE IMPROVEMENT.....	AR	1P06 RR00965-01	149,725
FOX, MAURICE S.....	GENETIC RECOMBINATION AND MICROBIAL DNA SYNTHESIS.....	PC	5R01 AI05388-13	104,824
FRISHKOPF, LAWRENCE S.....	TRANSDUCTION MECHANISMS IN LATERAL-LINE ORGANS.....	CMS	5R01 NS11080-02	81,866
GETTER, MALCOLM L.....	STUDIES ON THE MECHANISM AND CONTROL OF DNA REPLICATION.....	GEN	5R01 GM20363-03	42,795
GOTTLIEB, PAUL D.....	GENETIC MARKERS, LEUKEMOGENESIS, AND THYMIC FUNCTION.....	ALY	5R01 CA15808-02	47,857
GREEN, HOWARD.....	STUDY OF GROWTH AND CELL CONTROL PROCESSES.....	CAP	5P01 CA12174-05	313,332
GREEN, HOWARD.....	GROWTH AND DIFFERENTIATED FUNCTIONS IN MAMMALIAN CELLS.....	PTHB	5R01 CA12187-06	148,192
GREENE, FREDERICK D.....	NEW SMALL-RING HETEROCYCLES FOR CANCER CHEMOTHERAPY.....	MCHA	1R01 CA16592-01	30,408
HALL, LINDA M.....	NEUROLOGICAL MUTANTS OF DROSOPHILA MELANOGASTER.....	GEN	5R01 GM21106-02	53,121
HECHT, SIDNEY M.....	GROWTH HORMONES: REGULATORY EFFECTS IN ANIMALS.....	ET	5R01 CA14896-02	37,989
HECHT, SIDNEY M.....	SPECIFIC INHIBITION OF DIHYDROFOLATE REDUCTASE.....	MCHA	5R01 CA15535-02	26,677
HEIN, ALAN.....	DEVELOPMENT OF PERCEPTUAL CAPACITIES.....	VISB	2R01 NS09279-04A1	56,090
HELD, RICHARD M.....	STUDY OF VISION AND VISUOMOTOR MECHANISMS.....	EXP	5R01 EY01191-03	91,452
HENDERSON, ELLEN J.....	MECHANISM OF A CAMP MEMBRANE RECEPTOR IN DEVELOPMENT.....	MBY	1R01 GM21828-01	43,968
HERMANN, HOWARD T.....	COMPENSATORY VISUAL NEURAL CHANGES WITH EYE MOVEMENTS.....	VISB	9R01 EY01415-02A1	72,356
HOLM, RICHARD H.....	STUDIES OF METAL COMPLEXES OF SCHIFF BASES.....	MCHB	5R01 GM15471-08	40,043
HOUSMAN, DAVID E.....	ERYTHROID DIFFERENTIATION IN FRIEND LEUKEMIA CELLS.....	HEM	1R01 CA17575-01	51,803
HYNES, RICHARD O.....	ROLE OF CELL SURFACE PROTEINS IN GROWTH CONTROL.....	CBY	1R01 CA17007-01	54,718
INGRAM, VERNON M.....	DIFFERENTIATION OF ERYTHROPOIESIS AND MYOGENESIS.....	MBY	2R01 AM13945-06	198,467
KEMP, DANIEL S.....	SYNTHESIS AND REACTIONS OF PEPTIDES.....	MCHA	5R01 GM13453-10	64,747
KHORANA, HAR G.....	STUDIES OF BACTERIAL MEMBRANES.....	MBC	5R01 AI11479-03	42,686
KHORANA, HAR G.....	SYNTHETIC AND BIOLOGICAL STUDIES OF NUCLEIC ACIDS.....	BIO	5R01 CA11981-05	256,951

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
KING, JONATHAN A.	BACTERIOPHAGE ASSEMBLY AND ITS GENETIC CONTROL	VR	5R01 GM17980-05	91,558
LANNING, DAVID D.	GENERATOR FOR RADIONUCLIDE ANGIOCARDIOGRAPHY	RAD	1R01 HL17625-01	47,388
LEES, ROBERT S.	SUPPORT FOR ARTERIOSCLEROSIS RESEARCH CENTER	SRC	5P17 HL14209-05	496,873
LELE, PADMAKAR P.	LOCAL ULTRASONIC HYPERTHERMIA FOR TUMOR THERAPY	RAD	5R01 CA16111-02	50,683
LELE, PADMAKAR P.	EFFECTS OF ULTRASONIC ON CELL GROWTH AND DIVISION	RAD	5R01 GM19706-02	52,450
LETTYIN, JEROME Y.	STUDIES IN THE PHYSIOLOGY AND PSYCHOLOGY OF VISION	VISB	5R01 EY01149-03	88,783
LEVENE, MARTIN B.	DOSE DISTRIBUTION IN CANCER RADIATION THERAPY	CAP	1P01 CA17588-01	411,268
LINDER, MARIA C.	ROLE OF COPPER AND CERULOPLASMIN METABOLISM IN CANCER	PTHB	5R01 CA14441-03	38,436
LINDER, MARIA C.	ISO-FERRITINS IN NORMAL AND MALIGNANT TISSUES	PTHB	1R01 CA17249-01	44,511
LODISH, HARVEY F.	REGULATION OF VIRAL RNA TRANSLATION	VR	5R01 AI08814-07	58,401
LONDON, IRVING M.	REGULATION OF HEMOGLOBIN SYNTHESIS AND HEMATOPOIESIS	HEM	5R01 AM16272-04	148,252
LURIA, SALVADOR E.	CONTROL FUNCTIONS OF BACTERIOPHAGES AND BACTERIOCINS	GEN	5R01 AI03038-16	74,149
LURIA, SALVADOR E.	STUDY OF CANCER BIOLOGY	CAP	5P01 CA14051-03	786,500
MAGASANIK, BORIS	SYNTHESIS OF HISTIDINE DEGRADING ENZYMES	BIO	2R01 AM13894-06	73,064
MAGASANIK, BORIS	METABOLISM AND BIOLOGICAL FUNCTION OF INOSITOL	MBC	5R01 GM07446-16	43,635
MANN, ROBERT W.	PRESSURE DISTRIBUTION ACROSS HUMAN HIP JOINT	SGYB	5R01 AM16116-02	142,142
MANN, ROBERT W.	AN INTERDISCIPLINARY PROGRAM IN BIOMATERIALS SCIENCE	HEP	5P01 HL14322-04	847,842
MARK, ROGER G.	BIOMEDICAL ENGINEERING CENTER/CLINICAL INSTRUMENTATION	SSS	1P01 GM22392-01	628,605
MUNRO, HAMISH N.	NUTRITIONAL REGULATION OF PROTEIN METABOLISM	NTN	5R01 AM15364-05	75,064
NAUTA, WÄLLE J.	ORGANIZATION AND ANATOMICAL PLASTICITY OF THE FOREBRAIN	NEUA	5R01 NS06542-10	79,779
NEWBERNE, PAUL M.	EFFECT OF NUTRITION ON THE THYMOLYMPHATIC SYSTEM	NTN	5R01 HD06917-03	40,274
NEWBERNE, PAUL M.	NEW SYRIAN HAMSTER GENETIC POOL: A RESOURCE	AR	5P06 RR00844-03	57,946
PARDUE, MARY L.	GENE FUNCTION ANALYSIS BY POLYTENE CHROMOSOMES	GEN	1R01 GM21874-01	86,320
PEAKE, WILLIAM T.	SIGNAL TRANSMISSION IN THE AUDITORY SYSTEM	SSS	5R01 NS11000-02	88,308
PENMAN, SHELDON	TRANSCRIPTION AND TRANSLATION IN MAMMALIAN CELLS	MBY	2R01 CA08416-10	133,171
POLLITT, ERNESTO	INFANT AND MATERNAL BEHAVIORS REGULATING EARLY GROWTH	DBR	1R01 HD08109-01A1	45,330
POLLITT, ERNESTO	BEHAVIORAL EFFECTS OF IRON DEFICIENCY	DBR	1R22 HD09228-01	135,986
RAJBHANDARY, UTTAM L.	STRUCTURE AND FUNCTION OF TRANSFER RIBONUCLEIC ACIDS	PC	5R01 GM17151-06	60,752
RICH, ALEXANDER	MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND PROTEINS	BBCA	5R01 CA04186-17	201,222
RICHARDS, WHITMAN A.	STUDIES OF BINOCULAR VISION	VISB	2R01 EY00742-04	41,623
RICHARDS, WHITMAN A.	BREEDING ANOPHTHALMIC ANIMALS	VISB	1R01 EY01491-01	5,638
ROBBINS, PHILLIPS W.	CELL SURFACE BIOCHEMISTRY OF TRANSFORMED ANIMAL CELLS	VR	5R01 CA14142-13	121,943
ROGERS, ROSEMARIE	ATTITUDE CHANGE AMONG TEMPORARY MIGRANTS	POP	1R01 HD09477-01	27,763
ROSE, ROBERT M.	POLYETHYLENE BEHAVIOR AFTER JOINT REPLACEMENT	AFY	1R01 AM18227-01	115,877
ROSENBLITH, WALTER A.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07047-10	165,151
SAMUELSON, PAUL A.	NONLINEAR AND STOCHASTIC POPULATION ANALYSIS	POP	1R01 HD09081-01	41,957
SCHILLER, PETER H.	STUDIES OF INTERACTION BETWEEN EYE MOVEMENT AND VISION	VISB	5R01 EY00676-05	78,346
SCHIMMEL, PAUL R.	INVESTIGATIONS OF REACTIONS OF PHYSIOLOGICAL IMPORTANCE	BBCA	5R01 GM15539-08	107,218
SCHMITT, FRANCIS O.	NEUROSCIENCES RESEARCH PROGRAM	SSS	5R01 NS09937-13	209,908
SCHNEIDER, GERALD E.	NEUROPSYCHOLOGICAL STUDIES OF THE VISUAL SYSTEM	VISB	5R01 EY00126-06	66,668
SCRIMSHAW, NEVIN S.	PLASMA AMINO ACIDS AND HUMAN AMINO ACID NEEDS	NTN	5R01 AM15892-04	53,135
SCRIMSHAW, NEVIN S.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00088-12	446,908
SHARPLESS, K BARRY	BIOCHEMICAL ASPECTS OF SELENIUM CHEMISTRY	MCHB	1R01 GM21686-01	58,772
SIVIN, NATHAN	STUDY OF TRADITIONAL CHINESE MEDICINE	HLS	5R01 LM02109-02	38,826
STANBURY, JOHN B.	GOITER AND RETARDATION IN ECUADOR AND PERU	END	5R01 AM17266-02	35,756
STANLEY, H EUGENE	NORMAL AND ABNORMAL MECHANISMS OF VISION	BBCB	1R01 EY01463-01A1	28,891
STEINER, LISA A.	VARIATIONS IN ANTIBODY AFFINITY	ALY	5R01 AI08054-08	59,923
STEVENS, KENNETH N.	PHYSIOLOGICAL AND ACOUSTICAL STUDIES OF SPEECH	CMS	5R01 NS04332-12	196,520
TEUBER, HANS-LUKAS	EXTENT AND LIMITS OF NEUROPLASTICITY	NSPB	1P01 NS12336-01	207,900
THILLY, WILLIAM G.	BIOASSAY: IN VITRO MODELS OF HUMAN CHEMO-ONCOGENESIS	ET	5R01 CA15010-02	38,499
TORRIANI-GORINI, A.	CONTROL OF GENOME EXPRESSION	MBC	5R01 GM09320-14	37,832
WALSH, CHRISTOPHER T.	REACTION MECHANISMS OF PYROPHOSPHOKINASES	BIO	5R01 GM20011-03	52,347
WALSH, CHRISTOPHER T.	5-DEAZAFLAVIN COENZYMES AS FLAVOENZYME PROBES	BIO	1R01 GM21643-01A1	49,644
WAUGH, DAVID F.	PROTEIN INTERACTIONS AND PHYSICO-CHEMICAL PROPERTIES	HEM	3R01 HL13198-17S1	15,706
WAUGH, DAVID F.	PROTEIN INTERACTIONS AND PHYSICO-CHEMICAL PROPERTIES	HEM	2R01 HL13198-18A1	102,264
WAUGH, JOHN S.	HIGH-RESOLUTION NMR IN SOLIDS	BBCB	5R01 GM16552-07	73,939
WEINBERG, ROBERT A.	CHARACTERIZATION OF THE PROVIRAL DNA OF MULV.	VR	1R01 CA17537-01	24,812
WEINER, MYRON	MIGRATION POLICIES AND DEVELOPMENT	HDPR	1P01 HD09272-01	94,610
WOGAN, GERALD N.	STUDY OF FOOD-BORNE ENVIRONMENTAL TOXICANTS	SSS	5P01 ES00597-05	338,642
WOLF, GEORGE	FUNCTION OF VITAMIN A IN GLYCOPROTEIN SYNTHESIS	PC	5R01 AM08732-14	59,690

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
WOLF, GEORGE.....	VITAMIN A AND PROTEIN SYNTHESIS IN CORNEA.....	VISA	5R01 EY00515-07	58,426
WURTMAN, RICHARD J.....	ENDOCRINE CONTROL OF THE METABOLISM OF NEUROHUMORS.....	END	5R01 AM11237-09	45,733
WURTMAN, RICHARD J.....	SYMPATHETIC NERVOUS SYSTEM AND NEUROENDOCRINE RHYTHM.....	END	5R01 AM11709-09	49,165
WURTMAN, RICHARD J.....	CONTROL OF AROMATIC AMINO ACID UTILIZATION IN MAMMALS.....	MET	2R01 AM14228-06	73,199
YOUNG, VERNON R.....	DIETARY PROTEIN INTAKE AND HUMAN PROTEIN METABOLISM.....	NTN	2R01 AM15856-04	48,783
YOUNG, VERNON R.....	NUTRITION AND MUSCLE PROTEIN TURNOVER BY NEW METHODS.....	NTN	2R01 AM16654-03	42,977
YOUNG, VERNON R.....	AGING AND METABOLISM IN SKELETAL MUSCLE.....	NTN	5R01 HD08641-02	57,634
ORGANIZATION TOTAL	111 12,529,014			
<b>RESEARCH INSTITUTE FOR EDUCATIONAL PROBLEMS ZIP CODE 02138</b>				
GOTTLIEB, JAY.....	SOCIAL REJECTION OF RETARDED CHILDREN.....	DBR	1R01 HD08439-01A1	46,062
STEIN, JOAN L.....	STUDIES IN THE DEVELOPMENT OF CATEGORICAL CLUSTERING.....	JP	1R01 HD08307-01A1	71,826
ORGANIZATION TOTAL	2 117,888			
<b>CHESTNUT HILL</b>				
<b>BOSTON COLLEGE ZIP CODE 02167</b>				
BADE, MARIA L.....	BIOCHEMISTRY OF INSECT CUTICLE.....	TMP	5R01 ES00650-03	32,367
BOGER, ELIAHU.....	BENZO (RST) PENTAPHENE AND FLUORO DERIVATIVES.....	ET	1R01 CA18959-01	47,015
GOLDTHWAITE, JONATHAN J.....	REGULATION OF LEAF SENESCENCE BY PLANT HORMONES.....	CBY	7R01 HD09280-01	23,069
KELLY, T ROSS.....	SYNTHESIS OF THE ANTITUMOR AGENT HARRINGTONINE.....	MCHA	5R01 CA14014-03	22,590
KELLY, T ROSS.....	PRACTICAL SYNTHESIS OF THE ANTICANCER DRUG ADRIAMYCIN.....	MCHA	1R01 CA17631-01	58,058
KELLY, T ROSS.....	SYNTHESIS OF THE CNS STIMULANT DENDROBINE.....	MCHA	2R01 NS09831-04	29,814
YOON, CHAI H.....	GENETICS AND BIOCHEMISTRY OF NEUROLOGICAL MUTANTS.....	GEN	2R01 NS02267-15	39,749
ORGANIZATION TOTAL	7 252,662			
<b>MEDFIELD</b>				
<b>MASSACHUSETTS OFFICE OF HUMAN SERVICES—MEDFIELD STATE HOSPITAL ZIP CODE 02052</b>				
BARBER, THEODORE X.....	COGNITION, PERSONALITY, AND REDUCTION OF PAIN.....	PCR	1R01 GM22771-01	48,826
ORGANIZATION TOTAL	1 48,826			
<b>MEDFORD</b>				
<b>TUFTS UNIVERSITY ZIP CODE 02155</b>				
ROEDER, KENNETH D.....	NEUROPHYSIOLOGY AND BEHAVIOR OF INSECTS.....	CMS	5R01 AI00947-19	25,008
SCHAEFFER, JOHN F.....	MOLECULAR ASPECTS OF NA-COUPLED TRANSPORT.....	PHY	5R01 AM17414-02	27,957
TWAROG, BETTY M.....	CATCH AND MECHANISM OF ACTION OF SEROTONIN AND DOPAMINE.....	NEUB	5R01 NS10554-08	40,443
ORGANIZATION TOTAL	3 93,408			
<b>NORTHAMPTON</b>				
<b>SMITH COLLEGE ZIP CODE 01060</b>				
DE VILLAFRANCA, GEORGE W.....	BIOCHEMISTRY AND LOCALIZATION OF MUSCLE PROTEINS.....	BBCB	2R01 AM02647-19	47,424
OLIVO, MARGARET A.....	STUDIES ON A SINGLE SARCOMERE.....	PHY	1R01 NS12196-01	24,155
ORGANIZATION TOTAL	2 71,579			
<b>SHREWSBURY</b>				
<b>WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY ZIP CODE 01545</b>				
BARIL, EARL F.....	STUDY OF MECHANISM OF ACTION OF CARCINOSTATIC AGENTS.....	ET	5R01 CA15360-02	45,311
BARTKE, ANDRZEJ.....	INFLUENCE OF PROLACTIN ON THE TESTIS.....	REB	5R01 HD06867-03	45,968
BRODIE, ANGELA M H.....	AROMATASE INHIBITORS FOR CONTROL OF BREAST CANCER.....	END	1R01 CA18595-01	55,963
BRODIE, HARRY J.....	ESTROGEN BIOSYNTHESIS AND RELATED ENZYME REACTIONS.....	END	5R01 AM14625-05	62,508
CASPI, ELIAHU.....	STUDIES WITH STEREOSPECIFICALLY LABELED MEVALONATES.....	MCHA	3R01 AM12156-07S1	25,137
CASPI, ELIAHU.....	STUDIES WITH STEREOSPECIFICALLY LABELED MEVALONATES.....	MCHA	2R01 AM12156-08	97,751
CASPI, ELIAHU.....	IODINATED (125I AND/OR 131I) ESTROGENS IN BREAST CANCER.....	END	1R01 CA16464-01	63,000
CASPI, ELIAHU.....	BIOSYNTHESIS OF STEROLS IN DIGITALIS PLANTS.....	MCHA	5R01 GM19882-10	63,425



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
CASPI, ELIAHU	PRENATAL PROTEIN MALNUTRITION AND BRAIN STEROLS	NEUB	5R01 HD08194-02	60,385
CHANG, MIN C	PHYSIOLOGY OF THE FEMALE TRACT	REB	5R01 HD03003-15	61,068
CHANG, MIN C	PHYSIOLOGY OF MAMMALIAN FERTILIZATION	REB	2R01 HD03472-13	60,008
GIBBONS, ASHTON F	UPGRADING OF THE ANIMAL CARE FACILITY	AR	1P06 RR00921-01	102,250
GREENBERG, JAY R	MESSANGER RNA SYNTHESIS AND TURNOVER IN TUMOR CELLS	MBY	5R01 CA16895-02	48,700
GUT, MARCEL	SYNTHESIS OF LABELED ADRENAL HORMONES	END	5R01 AM03419-16	82,447
HELE, MARY E	ACTIVATION COMPLEXES IN PROTEIN SYNTHESIS	MBY	1R01 GM20751-01	58,405
HOAGLAND, MAHLON B	STUDY OF NORMAL AND MALIGNANT GROWTH	CAK	2P01 CA12708-04	496,012
HOAGLAND, MAHLON B	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05528-13	171,626
HOCHSTADT, JOY	TRANSPORT BY MEMBRANE VESICLES OF CULTURED TUMOR CELLS	MBY	5R01 CA14780-03	59,620
HOCHSTADT, JOY	REGULATION OF PURINE UTILIZATION IN BACTERIA	MBG	5R01 GM20486-03	41,777
JAHAN-PARWAR, BEHRUS	NEURAL BASES OF BEHAVIOR	PHY	1R01 NS12483-01	70,859
KUPFER, DAVID	EFFECTS OF CHLORINATED HYDROCARBONS ON MAMMALS	TOX	5R01 ES00834-02	63,085
LONGCOPE, CHRISTOPHER	REPRODUCTIVE FUNCTION AND GONADAL STEROID DYNAMICS	REB	5R01 HD08034-02	90,408
LUTFIG, RONALD B	PHYSICOCHEMICAL STUDIES OF VIRAL NUCLEOCAPSID ASSEMBLY	VR	5R01 CA15513-02	58,439
MACRIDES, FOTEOS	OLFACTORY AND NEUROENDOCRINE FUNCTIONS	END	1R01 NS12344-01	82,108
MAUDSLEY, DAVID V	POLYAMINE METABOLISM IN REPRODUCTIVE PHYSIOLOGY	REB	5R01 HD06387-04	55,636
MAUDSLEY, DAVID V	DIAMINE METABOLISM IN TISSUE GROWTH	MET	5R01 HD07476-02	58,025
MC CRACKEN, JOHN A	ENDOCRINE FUNCTION OF TRANSPLANTED UTERUS AND OVARY	END	5R01 HD08129-02	82,221
OZER, HARVEY L	HOST FUNCTIONS RELATED TO TUMOR-VIRUS INFECTION	VR	5R01 CA14670-03	82,639
OZER, HARVEY L	REGULATION OF EXPRESSION OF VIRAL TRANSFORMANTS	SSS	1R01 CA17128-01	93,660
PEDERSON, THORU	MACROMOLECULAR EVENTS IN SYNCHRONIZED TUMOR CELLS	MBY	5R01 CA13400-03	61,421
PEDERSON, THORU	STUDIES ON GENE TRANSCRIPTION IN EUKARYOTES	MBY	1R01 GM21595-01	99,600
PERON, FERNAND G	STUDY OF ADRENOCORTICOTROPIC ACTION	END	9R01 CA18635-15	135,620
RESNICK, OSCAR	MATERNAL PROTEIN RESTRICTION AND MENTAL RETARDATION	HDMR	2P01 HD06364-04	359,999
ROBERTS, JOHN S	OXYTOCIN CONTROL: STEROIDS, AMINES AND PROSTAGLANDINS	END	1R01 HD09345-01	52,991
ROMANOFF, LOUISE P	EFFECTS OF AGING ON STEROID METABOLISM IN MAN	END	3R01 HD04392-04S1	5,824
ROMANOFF, LOUISE P	EFFECTS OF AGING ON STEROID METABOLISM IN MAN	END	5R01 HD04392-05	57,454
SAIKHI, ABUBAKAR A	CONTRACEPTION BY INDUCTION OF LUTEOLYSIS	REB	1R01 HD09964-01	116,622
SKARNES, ROBERT C	MECHANISMS OF TOXICITY OF BACTERIAL ENDOTOXIN	BW	5R01 AI12221-02	63,858
VOGLMAYR, JOSEF K	SPERM MATURATION, AND ENDOCRINE FUNCTION OF THE TESTIS	REB	1R01 HD09356-01	68,968
ORGANIZATION TOTAL	39	3,460,798		
<b>SOUTH HADLEY</b>				
<b>MOUNT HOLYOKE COLLEGE</b>	<b>ZIP CODE 01075</b>			
JONES, THEODORE C	ENZYME LOCALIZATION IN MICROORGANISMS	GEN	5R01 GM20312-03	31,428
WILLIAMSON, KENNETH L	CONFORMATIONAL ANALYSIS BY NMR	MCHB	3R01 GM10224-12S1	4,257
ORGANIZATION TOTAL	2	35,685		
<b>STOW</b>				
<b>RED ACRE FARM</b>	<b>ZIP CODE 01775</b>			
SERONDE, JOSEPH, JR	OBESITY—DIETARY, HORMONAL AND GENETIC DETERMINANTS	NTN	2R01 AM08272-12	23,027
SERONDE, JOSEPH, JR	MODELS FOR THE STUDY OF OBESITY AND GROWTH	AR	5P06 RR00427-08	21,827
ORGANIZATION TOTAL	2	44,854		
<b>WALTHAM</b>				
<b>BRANDEIS UNIVERSITY</b>	<b>ZIP CODE 02154</b>			
ABELES, ROBERT H	ENZYME MECHANISMS AND ENZYME INHIBITORS	BIO	5R01 GM12633-12	67,135
ABELES, ROBERT H	IMPROVEMENT OF ANIMAL RESOURCE FACILITY	AR	1P06 RR00913-01	103,383
CASPAR, DONALD L	ASSEMBLY OF VIRUSES, MEMBRANES, AND TISSUE	BBCB	2R01 CA15468-02	127,221
CHAN, IU-YAM	PHOSPHORESCENT TRIPLET STATE OF POLYNUCLEOTIDES	BBCB	5R01 GM20275-03	30,412
COHEN, CAROLYN	MUSCLE STRUCTURE AND THE CONTRACTILE MECHANISM	BBCB	2R01 AM17346-02	100,664
COHEN, SAUL G	SPECIFICITY AND REACTIVITY OF HYDROLYTIC ENZYMES	BIO	5R01 GM04584-18	35,577
DE ROSIER, DAVID J	STRUCTURAL STUDIES OF BIOLOGICAL COMPLEXES	BBCB	5R01 GM21189-02	70,663
FASMAN, GERALD D	PROTEIN NUCLEIC ACID INTERACTIONS: MODEL STUDIES	BBCA	2R01 GM17533-14	78,709
FREIFELDER, DAVID M	PHYSICOCHEMICAL AND GENETIC STUDIES OF DNA FUNCTION	MBC	5R01 GM14358-09	53,065

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
GOLDSTEIN, JACK S.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07044-10	48,917
GROSSMAN, LAWRENCE	ENZYMATIC EXCISION-REPAIR MECHANISM STUDIES.....	PC	5R01 GM15881-15	64,807
HABER, JAMES E.	CONTROL OF GAMETOGENESIS.....	MBG	5R01 GM20056-03	27,804
HALL, JEFFREY C.	NEUROGENETICS OF DROSOPHILA REPRODUCTIVE BEHAVIOR.....	GEN	1R01 GM21473-01	27,258
HALVORSON, HARLYN O.	STUDIES ON PROTEIN METABOLISM IN YEAST.....	BIO	5R01 AI10610-04	69,551
HALVORSON, HARLYN O.	REGULATION OF DIFFERENTIATION IN BACILLUS SPORES.....	MBG	2R01 GM18904-04	72,524
JENCKS, WILLIAM P.	CHEMISTRY AND BIOCHEMISTRY OF ENERGY TRANSFER.....	BIO	5R01 GM20888-18	80,116
KUSTIN, KENNETH	CHEMICAL KINETICS STUDIED BY RELAXATION SPECTROMETRY.....	MCHB	5R01 GM08893-13	48,632
LEVINE, LAWRENCE	PROSTAGLANDINS & ENZYMES IN NORMAL AND MALIGNANT TISSUES.....	PC	1R01 AI7309-01	59,436
LEVINE, LAWRENCE	STUDIES ON THE PHYSIOLOGICAL ROLE OF THE PROSTAGLANDINS.....	PC	5R01 HD07966-02	60,892
LISMAN, JOHN E.	ADAPTATION IN INVERTEBRATE PHOTORECEPTORS.....	VISB	5R01 EY01496-02	35,514
LOWENSTEIN, JOHN M.	LIPOGENESIS AS A FUNCTION OF AGING.....	MET	1R01 AG00120-01	48,200
LOWENSTEIN, JOHN M.	ENZYMATIC & CHEMICAL REACTIONS OF ADENOSINE TRIPHOSPHATE.....	PC	5R01 GM07261-15	39,482
LOWEY, SUSAN	CHEMISTRY OF MUSCLE PROTEINS.....	BBCB	5R01 AM17350-03	55,721
MURAKAMI, WILLIAM T.	VIRUS-INDUCED NEOPLASTIC CONVERSIONS.....	VR	5R01 CA06654-13	75,966
NISONOFF, ALFRED	IDIOTYPE AND GENETIC CONTROL OF ANTIBODY BIOSYNTHESIS.....	SSS	1R01 AI12895-01	44,218
NISONOFF, ALFRED	STRUCTURE AND BIOSYNTHESIS OF ANTIBODIES.....	ALY	7R01 AI12907-01	70,675
NISONOFF, ALFRED	IMMUNOSUPPRESSION OF IDIOTYPIC SPECIFICITIES.....	IMB	7R01 AI12908-01	50,340
PARRY, RONALD J.	BIOSYNTHESIS OF ANTILEUKEMIC CEPHALOTAXUS ALKALOIDS.....	MCHA	2R01 GM19220-04	54,513
REDFIELD, ALFRED G.	STRUCTURAL KINETIC STUDIES BY NUCLEAR MAGNETIC RESONANCE.....	BBCB	5R01 GM20168-02S1	55,200
REDFIELD, ALFRED G.	STRUCTURAL KINETIC STUDIES BY NUCLEAR MAGNETIC RESONANCE.....	BBCB	5R01 GM20168-03	69,900
ROSBASH, MICHAEL M.	MACROMOLECULAR SYNTHESIS IN OOGENESIS AND DEVELOPMENT.....	CBY	1R01 HD08887-01	49,290
ROSENBLUM, MYRON	ORGANOMETALLIC REAGENTS IN ORGANIC SYNTHESIS.....	MCHB	5R01 GM16395-07	48,154
SCHIFF, JEROME A.	STUDIES OF THE CONTINUITY OF CELLULAR ORGANELLES.....	CBY	5R01 GM14595-09	47,513
SCHLEIF, ROBERT F.	ACTION MECHANISM OF ARABINOSIDE C GENE PROTEIN.....	MBG	5R01 GM18277-05	46,571
STEPHENS, RAYMOND E.	MICROTUBULE SUBSTRUCTURE.....	MBY	5R01 GM21040-02	21,093
STEVENSON, ROBERT	SYNTHESES OF LIGNANS AND RELATED PRODUCTS.....	MCHA	5R01 GM19566-07	39,059
SZENT-GYORGYI, ANDREW G.	REGULATION IN STRIATED, SMOOTH, AND CARDIAC MUSCLES.....	BBCB	5R01 AM15963-10	82,040
TIMASHEFF, SERGE N.	TUBULIN ASSOCIATIONS AND EFFECTS OF ANTICANCER DRUGS.....	BBCA	1R01 CA16707-01	134,998
TIMASHEFF, SERGE N.	STRUCTURE AND INTERACTIONS OF PROTEINS IN SOLUTION.....	BBCB	5R01 GM14603-09	65,516
WEISINK, PIETER C.	SEQUENCE ARRANGEMENT IN EUKARYOTIC DNA & CHROMOSOMES.....	GEN	1R01 GM21626-01	56,625
ORGANIZATION TOTAL	40	2,417,354		
<b>EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION ZIP CODE 02154</b>				
CAVINESS, VERNE S., JR.	DEVELOPMENTAL NEUROPATHOLOGY.....	PTHA	1R01 NS12005-01	76,166
JUNGALWALA, FIROZE B.	BIOCHEMICAL ASPECTS OF EXPERIMENTAL BRAIN TUMORS.....	PTHA	1R01 CA16853-01	47,833
JUNGALWALA, FIROZE B.	ASSEMBLY OF CEREBRAL MYELIN MEMBRANES.....	NEUA	2R01 NS10437-04	37,331
KANFER, JULIAN N.	BIOCHEMICAL AND GENETIC ASPECTS OF MENTAL RETARDATION.....	HDMR	2P01 HD05515-05A1	362,099
KANFER, JULIAN N.	CEREBRAL SPHINGOLIPID AND PHOSPHOLIPID METABOLISM.....	NEUA	2R01 NS10330-04	50,373
KISHIMOTO, YASUO	BRAIN 2-HYDROXY FATTY ACID METABOLISM AND MYELINATION.....	MET	5R01 NS10741-03	48,178
KISHIMOTO, YASUO	METABOLISM OF 3-KETO DERIVATIVE OF SPHINGOLIPIDS.....	SSS	1R01 NS11899-01	38,966
MILUNSKY, AUBREY	PRENATAL DETECTION OF NEURAL TUBE DEFECTS.....	HED	1R01 HD09281-01	87,475
MOSER, HUGO W.	RESEARCH IN MENTAL RETARDATION.....	HDMR	5P01 HD04147-07	253,136
MOSER, HUGO W.	BRAIN LIPIDS IN DIFFUSE DEMYELINATIVE DISEASES.....	PTHA	5R01 NS10473-04	50,333
MOSER, HUGO W.	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05730-04	114,590
STOFFYN, PIERRE J.	STRUCTURE OF GLYCOLIPIDS IN ONCOGENIC CELLS.....	PC	7R01 CA17441-01	24,058
STOFFYN, PIERRE J.	STRUCTURE OF GLYCOLIPIDS IN ONCOGENIC CELLS.....	PC	5R01 CA17441-02	37,272
STOFFYN, PIERRE J.	CHEMISTRY OF GLYCOLIPIDS.....	PC	1R01 NS12060-01	58,262
ORGANIZATION TOTAL	14	1,286,072		
<b>WELLESLEY</b>				
<b>WELLESLEY COLLEGE ZIP CODE 02181</b>				
GAUTHIER, GERALDINE F.	CYTOLOGICAL HETEROGENEITY OF SKELETAL MUSCLE FIBERS.....	CBY	1R01 AM17964-01A1	70,358
PADYKULA, HELEN A.	CYCLIC UTERINE DIFFERENTIATION-ALBINO RAT AND HUMAN.....	REB	1R01 HD09209-01	72,700
ORGANIZATION TOTAL	2	143,058		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
<b>WILLIAMSTOWN</b>				
<b>WILLIAMS COLLEGE</b>	<b>ZIP CODE 01267</b>			
DRICKAMER, LEE C.....	FACTORS AFFECTING SEXUAL MATURATION IN MAMMALS.....	REB	1R01 HD08585-01	21,794
MC GILL, THOMAS E.....	THE GENETICS AND PHYSIOLOGY OF BEHAVIORAL DIFFERENCES.....	EXP	5R01 GM07495-14	38,366
STUBBE, JOANNE.....	CHEMICAL SPECIFICITY OF PYRUVATE KINASE ISOENZYMES.....	MCHB	1R01 CA17189-01	8,773
STUBBE, JOANNE.....	ANALOGS OF PHOSPHOENOLPYRUVIC ACID.....	MCHB	5R01 GM20676-02	6,790
ORGANIZATION TOTAL	4 75,723			
<b>WOODS HOLE</b>				
<b>MARINE BIOLOGICAL LABORATORY</b>	<b>ZIP CODE 02543</b>			
BALL, ERIC G.....	REGULATION OF METABOLISM.....	MET	5R01 AM16793-02	5,234
EBERT, JAMES D.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05547-09	17,950
STEPHENS, RAYMOND E.....	THE FORMATION AND FUNCTION OF MICROTUBULES.....	MBY	5R01 GM20644-02	36,083
ORGANIZATION TOTAL	3 59,267			
<b>SOCIETY OF GENERAL PHYSIOLOGISTS</b>	<b>ZIP CODE 02543</b>			
COOK, JOHN S.....	BIOGENESIS AND TURNOVER OF MEMBRANE MOLECULES.....	NSS	1R13 GM21713-01	5,480
ORGANIZATION TOTAL	1 5,480			
<b>WOODS HOLE OCEANOGRAPHIC INSTITUTION</b>	<b>ZIP CODE 02543</b>			
WATSON, STANLEY W.....	STRUCTURE & FUNCTION OF MEMBRANES IN NITRIFYING BACTERIA.....	MBY	5R01 GM11214-12	66,285
ORGANIZATION TOTAL	1 66,285			
<b>WORCESTER</b>				
<b>CLARK UNIVERSITY</b>	<b>ZIP CODE 01610</b>			
GOODGLASS, HAROLD.....	NEW MEASURES OF APHASIC SYMPTOM VARIABLES.....	CMS	5R01 NS07615-15	42,415
SHERMAN, ROBERT G.....	DEVELOPMENT OF EMBRYONIC MYOCARDIAL CELLS.....	PHY	1R01 HL18267-01	47,382
ORGANIZATION TOTAL	2 89,797			
<b>MEDICAL RESEARCH INSTITUTE OF WORCESTER</b>	<b>ZIP CODE 01610</b>			
ROSEMBERG, EUGENIA.....	CHARACTERIZATION OF HUMAN PITUITARY GONADOTROPINS.....	END	5R01 AM07564-13	95,161
ORGANIZATION TOTAL	1 95,161			
<b>ST. VINCENT HOSPITAL</b>	<b>ZIP CODE 01610</b>			
DRISCOLL, WALTER G.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05660-01	49,202
FRIEDEL, GILBERT H.....	ADMINISTRATION OF THE NATIONAL BLADDER CANCER PROJECT.....	SRC	2R26 CA13859-04	317,958
FRIEDEL, GILBERT H.....	NATIONAL STUDY OF CANCER OF THE BLADDER.....	BP	5R26 CA15490-02	108,768
FRIEDEL, GILBERT H.....	NATIONAL STUDY OF CANCER OF THE BLADDER.....	BP	5R26 CA15945-02	38,506
PALEK, JIRI.....	EFFECT OF PROSTAGLANDINS ON HUMAN ERYTHROCYTES.....	HEM	7R01 HL17955-01	57,509
ORGANIZATION TOTAL	5 571,943			
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL</b>	<b>ZIP CODE 01605</b>			
BROWN, NEAL C.....	A MOLECULAR PROBE FOR THE STUDY OF DNA REPLICATION.....	BIO	5R01 CA15915-02	43,897
BUTCHER, REGINALD W.....	CONTROL OF CYCLIC AMP LEVELS.....	MET	2R01 AM13904-06	80,524
BUTCHER, REGINALD W.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05712-04	105,623
CLARK, RICHARD B.....	CYCLIC AMP REGULATION.....	SSS	5R01 GM21420-02	21,835
COOKE, WILLIAM J.....	HEPATIC EXCRETION OF ANIONIC DRUGS.....	PHRA	5R01 AM16552-02	26,157
FEINBLATT, JOEL D.....	STUDY OF SECRETION AND SYNTHESIS OF CALCITONIN.....	GMB	5R01 AM16550-02	19,819
FLATT, JEAN-PIERRE.....	STUDY ON THE CONTROL OF LIPOGENESIS IN ADIPOSE TISSUE.....	MET	1R01 AM17352-01	34,255
GACEK, RICHARD R.....	THE VESTIBULAR NUCLEI AND THEIR CONNECTIONS.....	CMS	7R01 NS12509-01	24,646
GOODMAN, H MAURICE.....	THE ROLE OF HORMONES IN STRESS.....	PHRA	5R01 AM17496-02	51,399
KAPLAN, MELVIN H.....	IMMUNOLOGIC RELATION OF STREPTOCOCCAL ANTIGENS AND HEART.....	ALY	7R01 HL18221-01	96,499
MAJINO, GUIDO.....	CARDIOVASCULAR PATHOLOGY.....	PTHA	5R01 HL16952-02	56,789
MARINUS, MARTIN G.....	FUNCTION OF METHYLATED BASES IN NUCLEIC ACIDS.....	MBC	1R01 GM22055-01	28,983
MARKS, SANDY C, JR.....	THE ROLE OF THE OSTEOCLAST IN TOOTH ERUPTION.....	DEN	5R01 DE03818-02	22,043
MC GUIRE, ROBERT F.....	INTERACTION OF HORMONES WITH CELL SURFACE MEMBRANES.....	BBCB	1R01 GM22583-01	31,125



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>				
MILLER, THOMAS B. JR.	REGULATION OF HEPATIC GLYCOGEN SYNTHESIS	MET	1R01 AM18269-01	31,646
PECHET, LIBERTO	PURIFIED HUMAN CLOTTING FACTOR IX: IMMUNOLOGIC STUDIES	HEM	1R01 HL17752-01	21,399
PURILLO, DAVID T.	HUMAN URINARY BLADDER TUMOR ANTIGENS	SRC	1R26 CA16969-01A1	66,890
SMITH, M. SUSAN	CONTROL OF GONADOTROPIN SECRETION DURING LACTATION	REB	1R01 HD09442-01	39,715
TIPPER, DONALD J.	INHIBITORS OF YEAST RNA POLYMERASES	MBC	3R01 GM20755-01S1	3,509
WAUD, DOUGLAS R.	STUDY OF DRUG-RECEPTOR INTERACTIONS	PHRA	7R01 NS12255-01	33,160
WOLF, MERRILL K.	DEVELOPMENT IN VITRO OF NORMAL AND MUTANT CNS	NEUB	5R01 NS11425-02	47,412
WRIGHT, GEORGE E.	STRUCTURE OF NOVEL INHIBITORS OF A DNA REPLICASE	BBCB	5R01 GM21747-02	16,020
ORGANIZATION TOTAL	22	903,345		
<b>WORCESTER POLYTECHNIC INSTITUTE ZIP CODE 01609</b>				
BROWNE, DOUGLAS T.	ENZYME CONFORMATION AND MECHANISM	BBCB	1R01 GM22008-01	30,743
ORGANIZATION TOTAL	1	30,743		
STATE TOTAL	1,130	101,579,052		
<b>MICHIGAN</b>				
<b>ANN ARBOR</b>				
<b>UNIVERSITY OF MICHIGAN ZIP CODE 48104</b>				
AGRANOFF, BERNARD W.	PHOSPHOLIPIDS OF THE NERVOUS SYSTEM	PC	5R01 NS03101-15	74,601
ALLEN, SALLY L.	GENETICS OF TETRAHYMENA AND PAREMECIUM	GEN	5R01 GM15879-18	66,404
ALPERN, MATHEW	PSYCHOPHYSIOLOGICAL STUDIES OF OCULAR ABNORMALITIES	SSS	5R01 EY00197-17	99,638
ASGAR, KAMAL	STUDIES OF VARIOUS PHASES IN CHROMIUM-COBALT ALLOYS	SSS	5R01 DE02017-11	52,746
AVERY, JAMES K.	ROLE OF NERVES IN DENTINOGENESIS	DEN	5R01 DE01604-12	41,005
AVERY, JAMES K.	TISSUE INTERACTION IN PALATAL SHELF CLOSURE	DEN	5R01 DE02774-08	55,724
BACON, GEORGE E.	STUDY OF CLINICAL PHARMACOLOGY	PTR	5P11 GM15559-08	406,818
BAKER, BURTON L.	HYPOPHYSEAL RESPONSE TO ESTROGENS AND PROGESTINS	REB	5R01 HD03159-08	47,169
BALLOU, DAVID P.	RAPID KINETICS STUDY OF BIOLOGICAL OXYGEN ACTIVATION	BBCA	1R01 GM20877-01	44,716
BEAUDOIN, ALLAN R.	MECHANISMS OF ACTION OF CHEMICAL TERATOGENS	HED	5R01 HD00400-13	31,090
BEIERWALTES, WILLIAM H.	RADIONUCLIDES: RADIATION, DETECTION AND MEASUREMENT	RAD	2R01 GM16188-06	104,789
BERNSTEIN, ISADORE A.	NEOPLASTIC AND HYPERPLASTIC EPIDERMAL METABOLISM	GMA	2R01 AM15206-04	130,556
BERNSTEIN, ISADORE A.	EFFECT OF CHLORAMPHENICOL ON CCL-INDUCED LIVER DAMAGE	TOX	5R01 ES01024-02	70,845
BRADLEY, ROBERT M.	STUDY OF FUNCTIONAL DEVELOPMENT OF THE GUSTATORY SENSE	CMS	5R01 HD07483-02	44,589
BULL, FRANCES E.	COOPERATIVE STUDY OF CANCER	CCI	5R10 CA14485-03	41,314
BURCKHALTER, JOSEPH H.	POTENTIAL ANTIVIRAL AND ANTINEOPLASTIC AGENTS	MCHA	5R01 CA16219-02	61,127
BURCKHALTER, JOSEPH H.	METABOLIC STUDY OF A HYPOCHOLESTEREMIC PYRIDINE	PHRA	5R01 GM19815-03	51,467
BURDI, ALPHONSE R.	PRENATAL ORIGINS OF POSTNATAL DENTAL VARIABILITY	DEN	5R01 DE03443-04	47,248
CAPLAN, ROBERT D.	ROLE OF A SUPPORTING PARTNER IN ADHERENCE	HBP	1R25 HL18418-01	126,587
CASEY, KENNETH L.	CRANIAL SOMATIC AND VISCERAL PAIN: CENTRAL MECHANISMS	NEUA	1R01 NS12015-01	51,211
CASEY, KENNETH L.	NEURAL MECHANISMS OF THERMAL PAIN	SSS	1R01 NS12581-01	44,900
CASTOR, C. WILLIAM	CONNECTIVE TISSUE ACTIVATION IN RHEUMATIC DISEASES	GMA	2R01 AM10728-09A2	85,626
CHAMBERS, DONALD A.	MOLECULAR MEDIATORS OF ORAL DISEASE	DEN	1R01 DE04373-01	52,516
CHRISTENSEN, HALVOR N.	SITES AND REACTANTS IN AMINO ACID TRANSPORT	PC	5R01 HD01233-20	107,282
CHU, ERNEST H.	GENETIC CONTROL OF MAMMALIAN CELL METABOLISM	GEN	5R01 GM20608-02	86,162
CLAFLIN, J. LATHAM	CLONAL NATURE OF IMMUNE RESPONSES TO PHOSPHORYLCHOLINE	ALY	1R01 AI12533-01	47,787
COHAN, BRUCE E.	CONTOURING THE HUMAN OPTIC DISC	VISA	2R01 EY01076-03	93,413
COHEN, BENNETT J.	SUPPORT FOR ANIMAL-CARE FACILITY	AR	5P06 RR00200-11	125,362
COHEN, BENNETT J.	ANIMAL RESOURCE IMPROVEMENTS	AR	1P06 RR00940-01	123,442
CONN, JEROME W.	NORMOKALEMIC PRIMARY ALDOSTERONISM	GMB	3R01 HL14520-08S1	5,336
CONNELLY, THOMAS G.	IRIS-LENS METAPLASIA IN VITRO: ROLE OF THE PITUITARY	CBY	1R01 HD08150-01A1	24,984
COON, MINOR J.	FUNCTION OF KINASES, DESATURASES, AND HYDROXYLASES	PC	5R01 AM10339-10	61,758
CORNISH, HERBERT H.	METABOLISM OF POTENTIAL CARCINOGENS	ET	5R01 CA15082-02	45,122
COUNSELL, RAYMOND E.	REGULATORS OF CATECHOLAMINE AND STEROID BIOSYNTHESIS	MCHB	5R01 HL11274-08	46,231
CRAIG, ROBERT G.	WEAR OF TOOTH ENAMEL, COMPOSITES AND AMALGAM	DEN	5R01 DE03416-04	50,307
CRAIG, ROBERT G.	HYDROPHOBIC FLUORINE-CONTAINING RESTORATIVE POLYMERS	DEN	1R01 DE04050-01	42,207
D'ALECY, LOUIS G.	CARDIOVASCULAR REFLEXES FOR CEREBRAL CIRCULATION	NEUB	1R01 NS12386-01	38,211

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MICHIGAN—Continued</b>				
DATTA, PRASANTA	CHANGES IN THE CELL SURFACE INDUCED BY TUMOR VIRUSES	MBY	1R01 CA16494-01	58,027
DATTA, PRASANTA	ALLOSTERIC ENZYMES AND METABOLIC REGULATION	BIO	1R01 GM21436-01A1	55,459
DAVENPORT, FRED M.	STUDY OF CARDIOVASCULAR AND RELATED DISEASES	HEP	5P01 HL09814-10	389,788
DAVENPORT, HORACE W.	DAMAGE AND REPAIR OF THE GASTRIC MUCOSAL BARRIER	GMA	2R01 AM08716-11	40,887
DEKKER, EUGENE E.	ENZYMIC PATHS AND MECHANISMS IN AMINO ACID METABOLISM	PC	5R01 AM03718-16	66,330
DUKMAN, DICK J.	PATTERN PROFILES IN CLEFT LIP AND/OR PALATE	DEN	1R01 DE04253-01	40,793
DOUTHIT, HARRY A., JR.	POLYRIBOSOMES IN BACTERIAL SPORES	MBG	5R01 GM20296-02	25,409
EASTER, STEPHEN S., JR.	VISUAL MECHANISMS IN LOWER VERTEBRATES	VISB	5R01 EY00168-06	19,102
EVANS, F. GAYNOR	STRUCTURE AND PHYSICAL PROPERTIES OF BONE	AFY	2R01 AM03865-16	51,347
FAJANS, STEFAN S.	PREDICTION AND LONG-TERM STUDY OF FUTURE DIABETES	MET	5R01 AM00888-20	85,123
FAJANS, STEFAN S.	STUDIES IN CARBOHYDRATE METABOLISM	MET	2R01 AM02244-17	97,941
FEE, JAMES A.	MECHANISMS OF SUPEROXIDE DISMUTASES	BIO	1R01 GM21519-01	56,917
FEENEY, F. ROBERT, JR.	EXPERIMENTAL BACTERIAL ENDOCARDITIS	BM	5R01 AI11359-02	19,218
FERRELL, WILLIAM J.	ALDEHYDOGENIC LIPIDS AND THIOETHERS IN HUMAN HEART	MET	5R01 HL16200-02	6,300
FOLK, WILLIAM R.	MAMMALIAN CELL TRANSFORMATION BY ONCOGENIC VIRUSES	VR	5R01 CA13978-03	36,195
FOSTER, DOUGLAS L.	REPRODUCTIVE ENDOCRINE DEVELOPMENT IN THE MONKEY	REB	5R01 HD08636-02	69,566
FOSTER, DOUGLAS L.	MECHANISMS GOVERNING INITIATION OF OVULATION	REB	1R01 HD09671-01	44,835
FREEDMAN, RONALD	STUDY OF FERTILITY AND FAMILY PLANNING IN TAIWAN	POP	5R01 HD03002-08	155,172
FRETER, ROLF G.	ECOLOGIC CONTROL MECHANISMS OF NORMAL ENTERIC FLORA	BM	2R01 AI07328-10	51,126
FRETER, ROLF G.	RESISTANCE AND IMMUNITY TO CHOLERA	BM	5R22 AI07631-09	37,985
FRIEDMAN, DAVID I.	HOST & VIRAL INFLUENCES: PHAGE LAMBDA & P1 DEVELOPMENT	VR	5R01 AI11459-03	62,957
GARN, STANLEY M.	VARIATIONS IN POSTNATAL OSSIFICATION SEQUENCE	GMB	5R01 HD07134-03	33,160
GARN, STANLEY M.	SOCIOECONOMIC AND GENETIC DETERMINANTS OF OBESITY	EDC	1R01 HD09538-01	76,874
GAY, HELEN	CHROMOSOME STRUCTURE IN RELATION TO GENE ACTION	GEN	2R01 GM10499-13	52,630
GOLDSTEIN, IRWIN J.	PROTEIN-CARBOHYDRATE INTERACTION	ALY	5R01 AM10171-10	44,997
GREEN, DANIEL G.	FUNCTIONAL ORGANIZATION OF THE RETINA	VISB	2R01 EY00379-07	58,254
GREENBERG, G. ROBERT	PHAGE INFECTION: DEOXYRIBONUCLEOTIDE & DNA BIOSYNTHESIS	VR	5R01 AI08133-18	71,450
GRONVALL, JOHN A.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	2M01 RR00042-15	902,651
GRONVALL, JOHN A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05383-14	255,345
GUMUCIO, JORGE J.	BILE SECRETION CHOLESTASIS AND MEMBRANE PROTEINS	GMA	1R01 AM18409-01	82,615
HAJRA, AMIYA K.	METABOLISM OF PHOSPHATIDIC ACID AND ITS ANALOGS IN BRAIN	BIO	5R01 NS08841-06	45,526
HAN, SEONG S.	SUBCELLULAR FATE OF GONADOTROPIC HORMONES	SSS	1R01 HD09202-01	48,144
HAND, JAMES H.	GLASS-ELASTOMER COMPOSITE BIOMATERIALS	BBCB	5R01 GM19664-02	25,670
HARRISON, TIMOTHY S.	CARDIOVASCULAR DETERMINANTS OF CATECHOL AMINE RELEASE	SGYB	5R01 HL14053-04	18,073
HARVIE, NANCY R.	LIPOPROTEIN-CYTOLYTIC TOXIN INTERACTION	BBCA	1R01 HL17567-01	57,317
HAWKINS, JOSEPH E., JR.	MICROSCOPIC STUDIES OF THE INNER EAR	CMS	5R01 NS05065-11	62,978
HELLING, ROBERT B.	COUPLING EUKARYOTIC GENES TO PROKARYOTIC PLASMIDS	MBG	3R01 GM21287-01S1	2,481
HEYN, RUTH M.	COOPERATIVE STUDY OF CANCER AMONG CHILDREN	CCI	2R10 CA02971-19	79,965
HICKS, SAMUEL P.	ROLE OF CORTICOSPINAL TRACT IN DEVELOPING MOTOR FUNCTION	NEUA	5R01 NS10531-03	39,015
HIGGINS, IAN T.	STUDY OF HUMAN AGING IN A DEFINED COMMUNITY	EDC	1R01 HD08507-01	33,634
HIGUCHI, WILLIAM I.	MECHANISMS OF CHOLESTEROL GALLSTONE DISSOLUTION RATES	BBCB	5R01 AM16694-02	38,287
HIGUCHI, WILLIAM I.	QUANTITATION OF ENAMEL DEMINERALIZATION MECHANISMS	DEN	2R01 DE01830-13	69,018
HOFFMAN, LOIS W.	THE VALUE OF CHILDREN IN THE UNITED STATES	POP	3R01 HD08287-01S1	5,800
HOEBLER, SIBLEY W.	RENIN INHIBITORS AND PROSTAGLANDINS IN HYPERTENSION	GMB	5R01 HL15710-02	31,481
HOEBLER, SIBLEY W.	COOPERATIVE STUDY OF STROKE AND HYPERTENSION	SSS	3R01 NS06930-07S1	2,825
HULTQUIST, DONALD E.	REDOX SYSTEMS OF ERYTHROCYTES	BIO	2R01 AM09250-10A1	48,206
JACKSON, DAVID A.	GENE TRANSFER MEDIATED BY ONCOGENIC VIRUS DNA	VR	2R01 CA13168-04	46,282
JACKSON, ETHEL N.	VIRAL REGULATORY MECHANISMS IN INFECTION AND LYSOGENY	MBG	1R01 AI12369-01	49,366
JACQUEZ, JOHN A.	MECHANISMS OF SOLUTE TRANSPORT IN ANIMAL CELLS	PHY	2R01 CA06734-13	29,088
JOHNSON, ARTHUR G.	REGULATORY MECHANISMS IN IMMUNOBIOLOGY	ALY	5R01 AM14273-06	60,877
JOHNSON, LARS-GORAN	CALCIUM TURNOVER IN OTOLITHIC MEMBRANES	CMS	5R01 NS11672-02	11,236
JOHNSON, LARS-GORAN	COCHLEAR NERVE DEGENERATION IN DEAFENED EARS	CMS	1R01 NS12706-01	52,349
JONES, GEORGE H.	CONTROL OF PROTEIN SYNTHESIS IN TUMORS	MBY	2R01 CA12752-04	26,082
JOURDAN, GEORGE W.	BIOCHEMISTRY OF MUCOPOLYSACCHARIDES	PC	5R01 AM10531-10	45,277
JUNI, ELLIOT	METABOLISM, PHYSIOLOGY, AND EVOLUTION OF ACINETOBACTER	SSS	5R01 AI10107-04	58,443
KARSCH, FRED J.	ROLE OF ESTROGEN IN FUNCTIONAL LUTEOLYSIS IN PRIMATES	REB	5R01 HD07689-03	43,556
KASS, LAWRENCE	ROLE OF HISTONES IN DISORDERS OF ERYTHROPOIESIS	HEM	5R01 CA14428-03	24,923
KELCH, ROBERT P.	REGULATION OF ESTROGEN PRODUCTION BY MAMMALIAN TESTES	REB	5R01 HD07690-02	28,848
KEMP, NORMAN E.	DIFFERENTIATION OF MINERALIZED TISSUES IN VERTEBRATES	GMB	5R01 AM13745-07	22,627
KEYES, JOHN W., JR.	RADIONUCLIDE QUANTITATIVE SPATIAL IMAGING	RAD	7R01 GM22678-01	71,178

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MICHIGAN—Continued</b>				
KEYES, PAUL L.	REGULATION OF OVARIAN FUNCTION DURING PREGNANCY	REB	3R01 HD07127-03S1	5,980
KEYES, PAUL L.	REGULATION OF OVARIAN FUNCTION DURING PREGNANCY	REB	2R01 HD07127-04	42,674
KINDT, GLENN W.	STROKE ACUTE CARE RESEARCH UNIT	NSPA	5P17 NS11103-03	64,193
KOPELMAN, RAOUL	EXCITATIONS IN CONDENSED MOLECULAR AGGREGATES	BBCA	5R01 NS08116-08	67,044
KORAN, ANDREW, III	MAXILLOFACIAL MATERIALS - COLOR STUDY	DEN	1R01 DE04136-01	79,575
LANDS, WILLIAM E.	CONSEQUENCES OF SELECTIVE FATTY ACID ESTERIFICATION	PC	2R01 AM05310-14	61,783
LAWRENCE, MERLE	STUDY OF CAUSES OF DEAFNESS	CDR	5P01 NS05785-10	627,373
LAWRENCE, MERLE	CONTROL OF THE INNER EAR MICROCIRCULATION	CMS	5R01 NS11731-02	49,787
LEE, RONALD D.	POPULATION DYNAMICS IN PREINDUSTRIAL ENGLAND	POP	5R01 HD08586-02	22,019
LEVINE, MYRON	STUDY OF CELLULAR AND BIOCHEMICAL GENETICS	SSS	5P01 GM15419-08	826,558
LOESCHE, WALTER J.	EFFECT OF CHEMOTHERAPY ON PLAQUE AND MICROBIAL ECOLOGY	DEN	2R01 DE03011-07	96,997
LOESCHE, WALTER J.	ANALYSIS OF NORMAL AND DISEASE-ASSOCIATED PLAQUE	DEN	5R01 DE03423-03	34,239
LOUIS, LAWRENCE H.	NEW DIABETOGENIC PEPTIDE FROM HUMAN PITUITARY GLANDS	END	5R01 AM16529-02	57,403
LUCCHESI, BENEDICT R.	ANALYSIS OF ANTIARRHYTHMIC AGENTS	PHRA	5R01 HL05806-15	24,693
LUDWIG, MARTHA L.	STRUCTURE AND ACTIVITY OF ENZYMES IN CRYSTALLINE STATE	BBCB	2R01 GM16429-07	71,233
MALVIN, RICHARD L.	RENAL TUBULAR REABSORPTION OF SODIUM AND WATER	PHY	3R01 AM05077-13S1	214
MALVIN, RICHARD L.	RENAL TUBULAR REABSORPTION OF SODIUM AND WATER	PHY	2R01 AM05077-14	52,740
MANN, WILLIAM R.	SUPPORT FOR DEVELOPMENT OF DENTAL RESEARCH INSTITUTE	DSR	5P13 DE02321-09	1,575,000
MANN, WILLIAM R.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR0531-14	158,877
MASSEY, VINCENT	STUDIES ON BIOLOGICAL OXIDATION MECHANISMS	PC	5R01 M11106-12	183,677
MATHEWS, KENNETH P.	CLINICAL STUDY OF ALLERGIC DISEASES	AIRC	5P15 AI10391-04	51,569
MATOVINOVIC, JOSIP	STUDIES OF EPIGENETIC PROCESSES IN THYROID CARCINOMA	END	5R01 CA15775-02	44,672
MC DONOUGH, PETER J.	ELITE AND MASS PREFERENCES ON BIRTH CONTROL IN BRAZIL	POP	1R01 HD09126-01	28,001
MC NAMARA, JAMES A., JR.	ADAPTATIONS TO CHANGES IN MASTICATORY MUSCLE LENGTH	DEN	1R01 DE04227-01	56,223
MELVIN, JOHN W.	BIOMECHANICS OF CERVICAL SPINE INJURY	AFY	5R01 AM16869-02	76,211
MENGE, ALAN C.	IMMUNOLOGICAL-INDUCED INFERTILITY	REB	2R01 HD05200-04A1	61,047
MENON, K JAYARAM.	REGULATION OF CORPUS LUTEUM FUNCTION BY GONADOTROPINS	REB	5R01 HD06656-03	27,503
MENON, K JAYARAM.	GONADOTROPIN RELEASING FACTOR REGULATION OF LH RELEASE	REB	5R01 HD07729-02	42,497
MIDDLEY, A REES, JR.	HORMONES IN REPRODUCTION: A PROGRAM PROJECT	HDPR	5P01 HD08333-02	362,574
MONTGOMERY, ARNOLD S.	STUDY OF HUMAN CORONAVIRUSES	VR	5R01 AI11829-02	67,183
MOUW, DAVID R.	LEAD: ITS RENAL HANDLING, RENIN AND ERYTHROPOIETIN	TOX	1R01 ES01141-01	69,800
MOYERS, ROBERT E.	STUDY OF CRANIOFACIAL GROWTH AND DEVELOPMENT	HDGD	5P01 DE03610-09	149,676
MURPHY, WILLIAM H.	MECHANISMS OF IMMUNITY IN LEUKEMIA	ET	5R01 CA13701-03	68,960
MURPHY, WILLIAM H.	IMMUNOBIOLOGY OF AGE-DEPENDENT CNS DISEASE	IMB	5R01 NS09933-05	56,552
NACE, GEORGE W.	AMPHIBIAN RESOURCES FOR HEALTH-RELATED RESEARCH	AR	5P06 RR00572-05	122,136
NANDA, SURENDER	A SERIAL GROWTH STUDY OF THE MANDIBLE AND DENTITION	DEN	1R01 DE03639-01	14,372
NAPIER, EDWARD A., JR.	STUDY OF METABOLISM OF COMMON PLASTICIZERS	PHRA	5R01 GM19853-02	30,282
NEIDHARDT, FREDERICK C.	REGULATION OF BACTERIAL METABOLISM	MBG	5R01 GM17892-05	56,132
NIEDERHUBER, JOHN E.	IMMUNE RESPONSES IN VITRO-H-2 (IR) LOCUS FUNCTION	ALY	1R01 AI12153-01A1	25,903
NOODEN, LARRY D.	THE BIOCHEMISTRY OF ARSENATE	TOX	3R01 ES00634-03S1	4,283
NORDMAN, CHRISTER E.	X-RAY STRUCTURE ANALYSIS OF BIOLOGICAL COMPOUNDS	BBCA	2R01 GM15259-12	80,769
NORTHCUTT, RICHARD G.	STUDY OF THE EVOLUTION OF THE TELECEPHALON	NEUA	2R01 NS11006-03	31,910
O'BRIEN, WILLIAM J.	CAPILLARY PHENOMENA RELATED TO CARIES SITES	DEN	2R01 DE03480-04	73,518
OAKLEY, BRUCE	NEURAL PLASTICITY IN TASTE AND CUTANEOUS SENSES	PHY	5R01 NS07072-09	47,214
OLSEN, RONALD H.	BACTERIOPHAGE STUDY OF GROWTH AT LOW TEMPERATURES	VR	5R01 AI07533-09	38,242
ONCLEY, J LAWRENCE	BIOPHYSICAL STUDIES OF PROTEINS	BBCB	5R01 HL09739-10	80,703
OVERBERGER, CHARLES G.	SYNTHETIC MACROMOLECULES AS ANTITUMOR AGENTS	MCHA	2R01 CA12231-04	43,431
OVERBERGER, CHARLES G.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07050-10	63,497
OXENDER, DALE L.	CHARACTERIZATION OF COMPONENTS OF MEMBRANE TRANSPORT	MBG	5R01 GM11024-12	55,697
OXENDER, DALE L.	TRANSPORT COMPONENTS FROM EUKARYOTES	MBG	5R01 GM20737-02	49,004
PAYNE, ANITA H.	ROLE OF STEROID SULFATES IN GONADAL TISSUE	END	2R01 HD04064-07	55,599
PAYNE, FRANCIS E.	VIRAL SUBACUTE AND CHRONIC NERVOUS SYSTEM DISEASE	PTHA	5R01 NS09547-05	77,167
POWERS, JOHN M.	WEAR OF FLUORAPATITE AND DENTAL CERAMICS	DEN	5R23 DE03652-03	10,875
PRATT, WILLIAM B.	STEROID RECEPTORS IN MOUSE CELLS CULTURED IN VITRO	ET	1R01 CA16041-01A1	49,235
RADIN, NORMA L.	STUDY OF PATERNAL BEHAVIOR WITH PRESCHOOL CHILDREN	DBR	5R01 HD06971-03	17,343
RADIN, NORMAN S.	CHEMOTHERAPY AND MODELS OF HERITABLE SPHINGOLIPIDOSES	NEUB	5R01 HD07406-02	27,238
RADIN, NORMAN S.	METABOLISM AND PATHOLOGY OF BRAIN GLYCOLIPIDS	NEUB	5R01 NS03192-16	142,729
RAMFJORD, SIGURD P.	DICHOTOMY OF CARIES AND PERIODONTITIS IN SRI LANKA	DEN	5R01 DE03901-02	110,865
RANCK, JAMES B., JR.	STUDY OF LIMBIC NEURONS	EXP	5R01 NS10970-03	33,296
REMINGTON, RICHARD D.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05447-14	127,089



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MICHIGAN—Continued</b>				
RHODIN, JOHANNES A.....	REACTIVITY OF NORMAL AND HYPERTENSIVE MICROVASCULATURE.....	CVB	7R01 HL18021-01	125,394
RIGGS, THOMAS R.....	ACTION OF HORMONES ON AMINO ACID TRANSPORT SYSTEMS.....	MET	5R01 AM03709-15	37,882
RIZKI, TAHIR M.....	INCORPORATION OF BUdR INTO DNA AND NEOPLASTIC GROWTH.....	GEN	5R01 CA12600-05	55,569
RIZKI, TAHIR M.....	CELL INTERACTIONS IN HEREDITARY TUMORS OF DROSOPHILA.....	GEN	1R01 CA16619-01	24,133
ROSENSTOCK, IRWIN M.....	ADHERENCE TO HYPERTENSIVE MEDICAL REGIMENS.....	HBP	1R25 HL18406-01	175,697
ROWE, THOMAS D.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05571-11	68,310
RUDDON, RAYMOND W.....	ROLE OF ACIDIC NUCLEAR PROTEINS IN ENZYME INDUCTION.....	ET	5R01 GM19863-02	28,217
RUTLEDGE, LESTER T.....	NEURAL MECHANISMS ASSOCIATED WITH LEARNING.....	NEUA	2R01 NS04119-12	52,721
SANDS, RICHARD H.....	STUDY OF REDOX REACTIONS BY OPTICAL AND EPR SPECTROMETRY.....	BBCB	5R01 GM12176-11	153,164
SCHNEIDER, WALTER.....	STOPFLOW DIELECTRIC STUDY OF PROTEIN BINDING KINETICS.....	BBCA	1R01 GM22309-01	42,897
SCHMICKEL, ROY D.....	ISOLATION AND CHARACTERIZATION OF HUMAN RIBOSOMAL DNA.....	GEN	5R01 HD04569-05	41,474
SCHULTZ, JANE S.....	IMMUNOGENETIC AND CYTOLOGICAL STUDY OF TISSUE GRAFTS.....	IMB	1R01 CA18638-01	31,152
SCHULTZ, JEROME S.....	PERMEABILITY OF MEMBRANES.....	PHY	3R01 GM15152-07S1	1,672
SELLINGER, OTTO Z.....	CEREBRAL METHYLATIONS IN NORMAL AND CONVULSIVE STATES.....	NEUB	5R01 NS06294-08	94,943
SHAFAER, JULES A.....	MACROMOLECULES FOR ISOLATING PROTEIN ON CELL SURFACES.....	BBCA	1R01 AI12625-01	58,510
SHAFAER, JULES A.....	REACTION MECHANISMS FOR ENZYMES.....	BIO	5R01 AM09276-11	46,931
SHREFFLER, DONALD C.....	GENETICS OF H-2(OB)-CONTROLLED T-LYMPHOCYTE ANTIGENS.....	GEN	5R01 AI11962-02	26,714
SING, CHARLES F.....	GENETIC UNIT OF SELECTION.....	GEN	5R01 GM20903-02	27,369
SISSON, JAMES C.....	MUCOPOLYSACCHARIDE METABOLISM IN EXOPHTHALMOS.....	VISA	5R01 AM17538-11	69,185
SMITH, AARON.....	CHANGING EFFECTS OF HEMISPHERECTOMY.....	DBR	3R01 NS10089-02S1	1,800
SMITH, AARON.....	CHANGING EFFECTS OF HEMISPHERECTOMY IN CHILD AND ADULT.....	DBR	2R01 NS10089-03A1	6,214
SOLOMON, WILLIAM R.....	ALLERGENICITY OF AIRBORNE PARTICULATES.....	IMB	5R01 AI10181-05	39,754
SPARKS, HARVEY V.....	DYNAMICS OF METABOLIC CONTROL OF MUSCLE BLOOD FLOW.....	PHY	2R01 HL14516-04	49,807
SPARKS, HARVEY V.....	DYNAMIC CONTROL OF CORONARY BLOOD FLOW.....	CVB	5R01 HL16760-02	54,822
STEBBINS, WILLIAM C.....	LATENCY-INTENSITY FUNCTIONS IN THE AUDITORY SYSTEM.....	CMS	2R01 NS05077-12	88,026
TUBERGEN, DAVID G.....	VIRUS-INDUCED SUPPRESSION OF DELAYED HYPERSENSITIVITY.....	IMB	5R01 AI11009-03	23,669
VOORHEES, JOHN J.....	CONTROL OF CELL DIVISION IN NORMAL AND PSORIATIC SKIN.....	SSS	2P01 AM15740-04	385,359
WALKER, SARA E.....	DRUG-INDUCED ONCOGENESIS IN AUTOIMMUNE NZB/NZW MICE.....	ET	2R01 CA13297-04	37,680
WEBER, WENDELL W.....	N-ACETYLATION OF DRUGS.....	ET	2R01 GM21723-02	74,386
WEIDLER, DONALD J.....	CARDIAC DAMAGE & ARRHYTHMIAS AFTER CEREBRAL INFARCTION.....	CVB	1R01 HL17351-01	42,405
WEINHOLD, PAUL A.....	PHOSPHOLIPID METABOLISM DURING DEVELOPMENT.....	MET	5R01 HD02871-09	43,864
WEINHOLD, PAUL A.....	SYNTHESIS AND MECHANISMS OF MEMBRANE-ACTIVE DRUGS.....	MCHA	5R01 HL15766-03	29,910
WILLIAMS, CHARLES H, JR.....	PYRIDINE NUCLEOTIDE-DISULFIDE OXIDOREDUCTASES.....	BIO	9R01 GM21444-10	43,214
WILLIAMS, WILLIAM J.....	DYNAMIC ANALYSIS OF THE PROPRIOCEPTIVE SYSTEM.....	NEUB	2R01 NS08470-07	64,030
WOODROOFE, MICHAEL B.....	TOPICS IN SEQUENTIAL MEDICAL TRIALS.....	COM	5R01 GM20507-02	33,131
ZAND, ROBERT.....	BRAIN BILIRUBIN-EFFECTS ON GROWTH AND NEUROCHEMISTRY.....	NEUB	1R01 NS11923-01A1	59,795
ORGANIZATION TOTAL	193 15,890,151			
<b>BERKLEY</b>				
WILLIAM BEAUMONT HOSPITAL	ZIP CODE 48072			
POULIK, MIROSLAV D.....	STUDY OF URINARY PROTEIN COMPONENTS.....	ALY	5R01 AI11335-04	32,308
ORGANIZATION TOTAL	1 32,308			
<b>DETROIT</b>				
CHILD RESEARCH CENTER OF MICHIGAN	ZIP CODE 48201			
KAPLAN, JOSEPH.....	T CELL LINE LEUKEMIA-ASSOCIATED ANTIGENS.....	IMB	1R01 CA17534-01	40,350
ZUELZER, WOLF W.....	VIRAL TRANSFORMATION, GENETICS, AND LEUKEMIA RISK.....	PTHB	2R01 CA12131-04	23,543
ZUELZER, WOLF W.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05732-04	19,583
ORGANIZATION TOTAL	3 83,476			
HENRY FORD HOSPITAL	ZIP CODE 48202			
CARRETERO, OSCAR A.....	RENAL KALLIKREIN, BLOOD PRESSURE, AND RENAL FUNCTION.....	GMB	5R01 HL15839-03	23,374
DRUNKER, BRUCE H.....	COOPERATIVE STUDY OF NEW GYNECOLOGIC CANCER PATIENTS.....	CCI	2R10 CA13887-03	12,717
GOLDSTEIN, SIDNEY.....	PROSPECTIVE STUDY OF RESUSCITATED SUDDEN DEATH VICTIM.....	SRC	1R01 HL18800-01	136,840
SHORE, JOSEPH D.....	REGULATION OF HEART MITOCHONDRIAL MALATE DEHYDROGENASE.....	BIO	2R01 HL13035-06	35,483
TALLEY, ROBERT W.....	COOPERATIVE STUDY OF BREAST CANCER.....	CCI	2R10 CA03357-18	91,275
TALLEY, ROBERT W.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA04915-16	127,825

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MICHIGAN—Continued</b>				
TALLEY, ROBERT W.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05490-13	42,987
ORGANIZATION TOTAL	7 470,501			
<b>MICHIGAN CANCER FOUNDATION ZIP CODE 48201</b>				
BRENNAN, MICHAEL J.	SUPPORT FOR CLINICAL CANCER RESEARCH CENTER	CAP	5P02 CA07177-12	423,121
BRENNAN, MICHAEL J.	DETROIT BREAST CANCER DEVELOPMENTAL RESEARCH UNIT	CAP	1P01 CA16175-01	279,860
BRENNAN, MICHAEL J.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05529-13	106,029
BROOKS, SAM C.	SULFOTRANSFERASES IN NORMAL AND CANCEROUS TISSUES	END	5R01 CA13645-03	35,353
CHLADEK, STANISLAV	THE STUDY OF PEPTIDYL TRANSFERASE RECOGNITION SITES	WCHA	2R01 GM19111-04	48,356
CHLADEK, STANISLAV	RECOGNITION OF NORMAL AND NEOPLASTIC tRNA BY RIBOSOMES	PC	5R01 GM21151-02	24,378
HOROWITZ, SAMUEL B.	STEROID - TARGET CELL INTERACTIONS: A NEW APPROACH	END	1R01 CA17456-01	56,632
HOROWITZ, SAMUEL B.	REGULATION OF NUCLEAR-CYTOPLASMIC SOLUTE TRANSPORT	PHY	5R01 GM19548-04	63,807
HORWITZ, JEROME P.	SPECIFICITY OF PAPS IN STEROID SULFATION	END	1R01 CA16716-01	41,824
HORWITZ, JEROME P.	NMR AND EPR STUDIES OF ESTROGEN SULFOTRANSFERASES	BBCB	1R01 CA16855-01	65,754
MAHER, VERONICA M.	INTERACTION OF CARCINOGENS WITH DNA: REPAIR OF LESIONS	GEN	2R01 CA13058-04	76,503
MAHER, VERONICA M.	ROLE OF MUTAGENESIS IN CHEMICAL CARCINOGENESIS	GEN	5R01 CA14680-02	45,805
RICH, MARVIN A.	STUDIES ON THE VIRAL ETIOLOGY OF CANCER	VR	5R01 CA14100-03	113,375
ZEMLICKA, JIRI	NEW TOOLS FOR INVESTIGATION OF PROTEIN BIOSYNTHESIS	WCHA	3R01 GM19108-03S1	11,421
ZEMLICKA, JIRI	TRANSITION STATE MODELS OF PROTEIN SYNTHESIS	MCHA	3R01 GM21093-01S1	4,137
ORGANIZATION TOTAL	15 1,396,355			
<b>SINAI HOSPITAL OF DETROIT ZIP CODE 48235</b>				
FOA, PIERO P.	ASPECTS OF PANCREATIC PHYSIOLOGY	MET	5R01 AM06034-14	47,590
FOA, PIERO P.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05641-09	62,037
KANTROWITZ, ADRIAN	STUDY OF MECHANICAL CIRCULATORY ASSISTANCE	HEP	5P01 HL13737-05	446,192
TUNG, ANTHONY K.	GLUCAGON BIOSYNTHESIS IN ISLETS OF LANGERHANS	MET	7R01 AM18358-01	14,593
ORGANIZATION TOTAL	4 570,412			
<b>UNIVERSITY OF DETROIT ZIP CODE 48221</b>				
FORSTHOEFFEL, PAULINUS F.	TERATOGEN AND GENE INTERACTIONS ON MOUSE DEVELOPMENT	HED	5R01 HD02506-09	34,361
MEHLENBACHER, LYLE E.	ANIMAL FACILITIES: IMPROVEMENTS TOWARD ACCREDITATION	AR	1P06 RR00967-01	52,693
WEMPLE, JAMES N.	SYNTHETIC ROUTES TO NEW THIOL ESTER DERIVATIVES	MCHA	1R01 CA17719-01	21,494
ORGANIZATION TOTAL	3 108,548			
<b>WAYNE STATE UNIVERSITY ZIP CODE 48202</b>				
AGER, JOEL	CONSEQUENCES OF TEEN CONTRACEPTIVE PROGRAM DROP OUT	POP	1R01 HD09361-01	40,554
ATASSI, M ZOHAIR	IMMUNOCHEMICAL STUDIES ON HEMOGLOBIN AND MYOGLOBIN	ALY	2R01 AM13389-07A1	61,783
BACH, ROBERT D.	THE CHEMICAL BEHAVIOR OF ORGANOMERCURY COMPOUNDS	MCHB	2R01 ES00761-04	50,852
BAGSHAW, JOSEPH C.	TRANSCRIPTIONAL RESTRICTION IN EMBRYONIC DEVELOPMENT	MBY	3R01 GM21376-01S1	3,539
BAUER, RAYMOND B.	ASPIRIN IN CEREBRAL ISCHEMIA-JOINT STUDY	TEC	5R01 HL14284-03	36,695
BERGUER, RAMON	HYPERPLASIA OF VEIN GRAFTS IMPLANTED IN ARTERIES	SGYB	1R01 HL18312-01	23,687
BOECKMAN, ROBERT K, JR.	APPROACHES TO THE SYNTHESIS OF THE SESTERTERPENES	MCHA	5R01 AI11662-02	30,979
BOECKMAN, ROBERT K, JR.	SYNTHESIS OF CERULENIN AND RELATED ANTIPTOBICS	MCHA	1R01 AI12302-01	18,002
BOYCE, CHARLES R.	COOPERATIVE STUDY OF NEW GYNECOLOGIC CANCER PATIENTS	CCI	5R10 CA12477-05	41,660
BROOKS, SAM C.	UTERINE STEROID METABOLISM AND REPRODUCTIVE FUNCTION	REB	1R01 HD08735-01	29,282
BROWN, RAY K.	MOLECULAR ASPECTS OF RESEALING OF ERYTHROCYTE MEMBRANE	HEM	5R01 HL15793-03	37,523
CHEN, YU M.	SERUM TYROSINASE IN MALIGNANT DISEASE	SSS	1R01 CA16563-01	58,791
CHURIN, THOMAS J.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07051-10	40,248
EDWARD, ALFRED G.	DEVELOPING AND IMPROVING INSTITUTIONAL ANIMAL RESOURCE	AR	1P06 RR00969-01	75,000
ENDICOTT, JOHN F.	REACTION MECHANISMS OF CYCLIC TETRAMINE COMPLEXES	MCHB	5R01 AM14341-07	64,277
FOX, CLEMENT A.	THE FINE STRUCTURE OF THE NERVOUS SYSTEM	NEUA	5R01 NS06925-10	50,945
GALA, RICHARD R.	NEURAL REGULATION OF PROLACTIN SECRETION IN THE RAT	END	5R01 HD07722-02	30,525
GORELIC, LESTER S.	RADIATION EFFECTS: DNA TEMPLATE INACTIVATION AND REPAIR	RAD	1R01 CA18046-01A1	36,729
GROSSMAN, LAWRENCE I.	MITOCHONDRIAL DNA FROM NEOPLASTIC AND NORMAL CELLS	MBY	1R01 GM21704-01	65,601
HOLLANDER, DANIEL	FAT SOLUBLE VITAMINS ABSORPTION EMPHASIZING VITAMIN K.	GMA	5R01 AM17607-02	22,489
HULL, FRANKLIN E.	BETA-HYDROXY FATTY ACID PRODUCTION BY ISCHEMIC HEART	MET	3R01 HL14730-03S1	3,803
HULL, FRANKLIN E.	BETA-HYDROXY FATTY ACID PRODUCTION BY ISCHEMIC HEART	MET	2R01 HL14730-04	44,264
JOHNSON, JEAN E.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05718-04	19,851
JOLICK, JOSEPH D.	GENETICS OF DIFFERENTIATION IN CAULOBACTER	MBC	5R01 GM21228-02	19,101
KIMURA, TOKUJI	STUDIES ON STEROID HYDROXYLASES	PC	5R01 AM12713-07	63,468

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MICHIGAN—Continued</b>				
KING, ALBERT I.....	STRUCTURAL AND MECHANICAL PROPERTIES OF THE SPINE.....	AFY	5R01 GM20201-03	33,684
KITAL, STEPHEN T.....	EXPERIMENTAL STUDIES OF SENSORY PATHWAYS.....	NEUB	5R01 NS00405-20	91,798
KRABBEHOF, KENNETH L.....	SUPPORT FOR RADIATION THERAPY CENTER.....	CAP	5P01 CA15013-02	94,581
LEON, MYRON A.....	MYELOMA PROTEINS IMMUNOCHEMISTRY AND IMMUNOBIOLOGY.....	ALY	7R01 AI12700-01	73,709
LEON, MYRON A.....	BIOLOGICAL ACTIVITIES OF HOMOGENEOUS MITOGENS.....	ALY	7R01 AI12887-01	30,244
LERNER, A MARTIN.....	HERPES SIMPLEX VIRUS AND THE NERVOUS SYSTEM.....	VR	5R01 NS11455-06	44,315
LEVINE, SEYMOUR.....	RESPIRATORY SYNCYTIAL VIRUS ASSEMBLY AND MATURATION.....	VR	5R01 AI10996-03	33,374
LEWIS, BENJAMIN M.....	PULMONARY CAPILLARY BED IN CARDIOPULMONARY DISEASE.....	CVA	3R01 HL02379-17S1	2,150
LEWIS, BENJAMIN M.....	PULMONARY TOXICITY OF BLEOMYCIN.....	PTHA	1R01 HL17874-01	17,052
LIGHTBODY, JAMES J.....	IN VITRO STUDY OF HUMAN ALLOGRAFT IMMUNITY.....	ALY	5R01 AI11013-02	23,814
LIGHTBODY, JAMES J.....	STUDY OF PRESENSITIZATION IN KIDNEY TRANSPLANTS.....	IMB	3R01 HL02379-17S1	21,664
MAISEL, HARRY.....	A STUDY OF STRUCTURAL LENS PROTEINS.....	VISA	1R01 EY01417-01	32,494
MITCHELL, ROBERT A.....	PATHWAYS FOR ATP SYNTHESIS AND UTILIZATION.....	BIO	3R01 GM19562-07A1S1	4,999
PUTNEY, JAMES W, JR.....	CELLULAR PHARMACOLOGY OF SALIVARY SECRETION.....	PHRA	1R01 DE04067-01	37,420
RAUCH, HELENE C.....	IMMUNOLOGIC RESPONSES IN DEMYELINATING DISEASES.....	IMB	7R01 NS12754-01	64,034
REEVES, ANDREW L.....	PATHOGENESIS OF PULMONARY BERYLLOSIS.....	TOX	5R01 ES00353-08	61,111
RILLEMA, JAMES A.....	REGULATION OF METABOLISM IN MAMMARY GLAND TUMORS.....	END	1R01 CA18296-01	33,188
RILLEMA, JAMES A.....	HORMONAL CONTROL OF METABOLISM IN THE MAMMARY GLAND.....	END	2R01 HD06571-04	29,142
RORABACHER, DAVID B.....	STERIC AND MATRIX EFFECTS IN COORDINATION KINETICS.....	MCHB	3R01 GM12596-08A1S1	3,645
RORABACHER, DAVID B.....	MACROCYCLIC LIGAND KINETICS: POLYTHIAETHER COMPLEXES.....	MCHB	5R01 GM20424-02	40,549
ROSE, NOEL R.....	ANTIGENIC COMPONENTS OF HUMAN PROSTATIC ADENOCARCINOMA.....	SRC	2R26 CA16426-02	116,450
SCHAA, A PAUL.....	ENZYMATICALLY GENERATED SINGLET OXYGEN IN CARCINOGENESIS.....	BIO	5R01 CA15874-02	29,320
SEEGERS, WALTER H.....	FORMATION AND PROPERTIES OF PROTHROMBIN DERIVATIVES.....	HEM	2R01 HL03424-18	85,841
SEEGERS, WALTER H.....	SUPPORT FOR CENTER FOR STUDY OF THROMBOSIS & HEMOSTASIS.....	SRC	5P17 HL14142-05	453,342
SHANTZ, CAROLYN U.....	GENERALITY AND CORRELATES OF EGOCENTRISM IN CHILDREN.....	DBR	5R01 HD07369-02	6,962
STEVENS, CALVIN L.....	AMINO AND KETO SUGAR NUCLEOSIDES FOR CANCER SCREENING.....	MCHA	1R01 CA17217-01	36,341
STEVENS, CALVIN L.....	6-DEOXY-4-KETO AND 4-AMIN-4, 6-DIDEOXY SUGARS.....	MCHA	3R01 GM11520-11S1	3,760
SWANBORG, ROBERT H.....	ENCEPHALITIC NATURE OF ALTERED BRAIN PREPARATION.....	IMB	5R01 NS06985-08	24,316
TCHEN, TCHE-TSING.....	STUDIES ON SOME METABOLIC PATHWAYS.....	PC	5R01 AM05384-14	50,498
TCHEN, TCHE-TSING.....	CONVERSION OF CHOLESTEROL TO PREGNENOLONE.....	PC	2R01 AM13724-06	68,391
TSERNOGLOU, DEMETRIUS.....	X-RAY DIFFRACTION ANALYSIS OF THROMBIN AND NEUROTOXIN.....	BBCB	5R01 HL15958-03	8,400
VAITKEVICIUS, VAINUTIS K.....	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP.....	CCI	2R10 CA14028-02	117,564
VAITKEVICIUS, VAINUTIS K.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17952-01	134,276
WEINER, LAWRENCE M.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05384-14	161,103
WHITTEN, CHARLES F.....	SUPPORT FOR SICKLE CELL CENTER.....	SRC	5P18 HL16008-03	526,964
ORGANIZATION TOTAL	60	3,566,143		

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### MICHIGAN STATE UNIVERSITY ZIP CODE 48823

AGGARWAL, SURINDER K.....	PLATINUM COMPOUNDS AND THEIR ANTITUMOR ACTIVITY.....	ET	2R01 CA12514-03A1	39,905
AKERA, TAI.....	MECHANISM OF INOTROPIC ACTION OF CARDIAC GLYCOSIDES.....	CVB	5R01 HL16052-02	81,512
ASHER, JAMES H, JR.....	GENETIC AND MOLECULAR ANALYSIS OF MESODERMAL INDUCTION.....	HED	1R01 HD08134-01A1	29,187
AUST, STEVEN D.....	INVESTIGATION OF MEMBRANE STRUCTURE AND FUNCTION.....	MBY	5R01 GM19699-02	23,134
AUST, STEVEN D.....	RAT LIVER MICROSOMAL CYTOCHROME P 450.....	BIO	5R01 GM21321-02	21,309
BAILIE, MICHAEL D.....	ANATOMICAL AND FUNCTIONAL DEVELOPMENT OF THE KIDNEY.....	HED	5R01 HD06290-02	57,252
BAILIE, MICHAEL D.....	METABOLISM AND INTRARENAL ACTION OF ANGIOTENSIN II.....	GMB	5R01 HL14075-04	45,305
BAND, RUDOLPH N.....	PHYSIOLOGY OF ACANTHAMOEBA AND ENTAMOEBA.....	TMP	2R01 AI06117-12A1	46,837
BARKER, ROBERT.....	OLIGOSACCHARIDE SYNTHESIS AND GLYCOSE REARRANGEMENTS.....	MCHA	5R01 AM18427-01	35,928
BERNARD, RUDY A.....	ELECTROPHYSIOLOGICAL STUDIES OF THE GUSTATORY SYSTEM.....	CMS	5R01 NS09168-06	84,133
BIEBER, LORAN L.....	BIOCHEMISTRY OF POLYENE ANTIBIOTICS.....	TOX	1R01 AI12187-01A1	49,476
BIEBER, LORAN L.....	SHORT-CHAIN ACYLCARNITINES-FUNCTION AND ENZYMOLOGY.....	BIO	1R01 AM18427-01	52,902
BOEZI, JOHN A.....	MAREK'S DISEASE HERPES VIRUS INDUCED DNA POLYMERASE.....	VR	1R01 CA17554-01	40,498
BRANDAS, STANLEY.....	THE CULTURAL DETERMINANTS OF NUPTIALITY.....	POP	1R01 HD08509-01	43,374
BRODY, THEODORE M.....	CARDIAC PHARMACOLOGY OF PHENOTHIAZINE METABOLITES.....	PHRA	5R01 GM21731-01	37,360
BROMLEY, STEPHEN C.....	REGULATION OF GROWTH IN AMPHIBIAN LIMB REGENERATION.....	CBY	5R01 AM14742-05	30,468
BROMLEY, STEPHEN C.....	ROLE OF WOUND EPIDERMIS IN REGENERATION OF LIMB.....	CBY	5R01 AM15732-04	30,725
BULL, ROBERT W.....	IMMUNOHISTOLOGICAL REFERENCE CENTER.....	AR	1P06 RR00931-01	60,425
CHOU, CHING-CHUNG.....	MECHANISMS OF HEMODYNAMIC CHANGES DURING DIGESTION.....	CVA	5R01 HL15231-03	40,162



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MICHIGAN—Continued</b>				
CLEMENS, LYNNWOOD G.	NEURAL CONTROL OF SEXUAL BEHAVIOR IN THE RAT.	REB	2R01 HD06760-04	84,440
CONVEY, EDWARD M.	CONTROL OF CONCENTRATION OF BOVINE SERUM PROLACTIN.	END	2R01 AM15899-04	42,353
COSTLOW, RALPH N.	METABOLISM OF AMINO ACIDS BY CLOSTRIDIA.	MBE	2R01 AI10951-04	33,705
DAUGHERTY, ROBERT M., JR.	EFFECT OF PROCEDURES ON ISCHEMIC LIMB O2 AND BLOOD FLOW.	AFY	5R01 HL13950-03	40,272
DEAL, WILLIAM C., JR.	CANCER AND THE CONTROL OF GLYCOLYSIS.	ET	5R01 CA14017-03	22,227
DUKELOW, W. RICHARD	CYTOGENETIC STUDIES OF PRIMATE DEVELOPMENT.	HED	5R01 HD07534-02	46,350
ESSELMAN, WALTER J.	EXPRESSION OF T LYMPHOCYTE DIFFERENTIATION ANTIGENS.	ALY	1R01 AI12549-01	45,469
FROMM, PAUL O.	COMPARATIVE PHYSIOLOGICAL STUDIES OF VERTEBRATE EYES.	VIS	5R01 EY00009-12	36,348
GEBBER, GERARD L.	CENTRAL NEURAL CONTROL OF CARDIOVASCULAR FUNCTION.	PHRA	5R01 HL13187-06	30,178
GIBSON, JAMES E.	STUDY OF PERINATAL PESTICIDE TOXICITY.	TOX	5R01 ES00560-04	30,071
GIBSON, JAMES E.	PESTICIDE BEHAVIORAL TERATOLOGY.	TOX	5R01 ES00910-02	39,868
GOODMAN, JAY I.	REPAIR SYNTHESIS OF DNA IN PRECANCEROUS RAT LIVER.	ET	2R01 CA13344-04	42,580
GOODMAN, JAY I.	NORMAL & PRECANCEROUS REGENERATING LIVER IN VITRO.	ET	1R01 CA17001-01	42,440
GREEN, MARK M.	DYNAMIC STEREOCHEMISTRY OF HYDROGEN ABSTRACTION.	MCHA	7R01 GM22024-01	29,332
GREGA, GEORGE J.	PATHOPHYSIOLOGY OF CIRCULATORY SHOCK.	CVA	3R01 HL12421-06S1	1,537
GREGA, GEORGE J.	PATHOPHYSIOLOGY OF CIRCULATORY SHOCK.	CVA	2R01 HL12421-07	40,995
HADDY, FRANCIS J.	EFFECT OF CATIONS, ANIONS, AND WATER UPON BLOOD VESSELS.	CVB	3R01 HL10778-09S1	7,199
HADDY, FRANCIS J.	POTASSIUM AND SODIUM EFFECTS ON THE WORKING HEART.	CVB	5R01 HL16158-02	36,925
HAFS, HAROLD D.	ENDOCRINE CORRELATES WITH PROSTAGLANDIN F2ALPHA.	END	2R01 HD06948-03	42,786
HART, HAROLD	STUDIES IN ORGANIC SYNTHESIS.	MCHA	3R01 GM15997-06S1	3,789
HATTON, GLENN I.	INTERNAL SENSING SYSTEMS AND DRINKING BEHAVIOR.	EXP	5R01 NS09140-05	39,400
HELMRATH, THOMAS A.	NEONATAL GLUCONEOGENESIS: INITIATION AND CONTROL.	MET	2R01 HD05821-04	61,806
HOOK, JERRY B.	FACTORS AFFECTING RENAL PHYSIOLOGY IN THE NEWBORN.	GMB	5R01 AM10913-09	25,727
HUNT, ANDREW D., JR.	GENERAL RESEARCH SUPPORT GRANT.	NSS	5S01 RR05656-08	137,903
JOHNSON, JOHN I., JR.	DEVELOPMENT OF AFFERENT NEURAL CENTERS.	NEUA	2R01 NS05982-10	31,072
KINDEL, PAUL K.	BIOSYNTHESIS OF D-APIOSE AND PLANT POLYSACCHARIDES.	PC	5R01 GM19973-06	42,707
KISSINGER, PETER T.	ANALYSIS OF TYROSINE METABOLITES IN BODY FLUIDS.	MCHB	1R01 GM21580-01	34,123
KOHRMAN, ARTHUR F.	ESTROGENS, ALTERED DIFFERENTIATION, AND MALIGNANCY.	HED	5R01 CA15137-02	33,124
KOHRMAN, ARTHUR F.	AN ALTERNATE PATHWAY FOR UREA SYNTHESIS.	MET	5R01 HD08456-02	47,361
LEVEILLE, GILBERT A.	METABOLIC AND ENZYMIC EFFECTS OF MEAL-FEEDING.	NTN	5R01 AM15847-05	33,667
LEVEILLE, GILBERT A.	NUTRITION AND LIPID METABOLISM—COMPARATIVE ASPECTS.	MET	3R01 HL14677-03S1	1,944
LITTLE, ROBERT W.	CONSTITUTIVE EQUATIONS FOR SOFT TISSUES.	AFY	5R01 AM16293-02	24,447
MAGEN, MYRON S.	GENERAL RESEARCH SUPPORT GRANT.	NSS	1S01 RR05772-01	17,700
MEITES, JOSEPH	CONTROL OF SECRETION OF HYPOTHALAMIC HORMONES.	END	5R01 AM04784-15	72,927
MEITES, JOSEPH	NEUROENDOCRINE CONTROL OF MAMMARY AND PITUITARY TUMORS.	END	5R01 CA10771-08	84,196
MEITES, JOSEPH	HYPOTHALAMO-PITUITARY-OVARIAN RELATIONSHIPS IN AGING RAT.	REB	1R01 HD09184-01	60,386
MICHELAKIS, ANDREW M.	THE ENDOCRINE KIDNEY IN HYPERTENSION.	GMB	7R01 HL18019-01	43,373
MICHELAKIS, ANDREW M.	NEW VASOACTIVE FACTORS AND THEIR ROLE IN HYPERTENSION.	CVB	1R01 HL18027-01	81,478
MILLER, HAROLD C.	DEVELOPMENT OF IMMUNOGENESIS FROM BONE-MARROW CELLS.	IMB	2R01 CA13396-04	74,037
MOON, ROBERT J.	PATHOGENESIS OF ENDOTOXEMIA.	BM	5R01 AI09394-06	35,511
MORRIS, ALLAN J.	BIOSYNTHESIS OF HUMAN AND RABBIT HEMOGLOBINS.	MBY	5R01 AM08575-11	46,784
NADLER, KENNETH D.	HEMOGLOBIN SYNTHESIS IN GLYCINE MAX NODULES.	SSS	1R01 AM18295-01	21,849
OVERBECK, HENRY W.	HEMODYNAMICS AND VASOACTIVITY IN RENAL HYPERTENSION.	CVA	5R01 HL15146-03	37,396
OVERBECK, HENRY W.	IONS, WATER, AND HYPERTENSION.	CVB	1R01 HL16665-01	47,697
OXENDER, WAYNE D.	FETAL HYPOPHYSEAL-GONADAL RELATIONSHIPS.	END	5R01 HD06720-03	34,212
OYER, HERBERT J.	MEMORY CODES AND SENTENCE COMPREHENSION IN CHILDREN.	DBR	1R01 NS12768-01	42,892
OZAKI, HIRONOBU	ROLE OF CHROMATIN IN EMBRYONIC DETERMINATION.	CBY	5R01 HD06683-02	24,476
PATRICK, RICHARD A.	STUDIES ON COMPLEMENT CLEAVAGE REACTIONS.	ALY	2R01 HL11367-02A1	40,812
PATTERSON, RONALD J.	CONTROL OF IMMUNOGLOBULIN SYNTHESIS IN MYELOMA CELLS.	ALY	5R01 AI11493-03	32,592
REED, C. F.	GENERAL RESEARCH SUPPORT GRANT.	NSS	5S01 RR05623-09	68,596
RIEGLE, GAIL D.	THE EFFECT OF AGING ON HYPOTHALAMIC CONTROL SYSTEMS.	END	5R01 HD06223-02	34,986
RIVERA, EVELYN M.	CARCINOGEN-INDUCED RAT MAMMARY HYPERPLASIAS.	PTHB	1R01 CA17862-01	68,101
ROBINSON, NORMAN E.	DEVELOPMENT OF COLLATERAL VENTILATION.	CVA	1R01 HL17768-01	15,473
RONZIO, ROBERT A.	THE ROLE OF GLYCOPROTEINS IN PANCREATIC SECRETION.	MBY	5R01 AM17742-02	34,085
RONZIO, ROBERT A.	MEMBRANE FORMATION IN CYTODIFFERENTIATION.	MBY	3R01 GM17773-04S1	9,022
ROSENBERG, BARNETT	METAL COORDINATION COMPLEXES IN CANCER CHEMOTHERAPY.	ET	2R01 CA11349-07	83,875
ROTTMAN, FRITZ M.	CONTROL OF RNA PROCESSING IN NORMAL AND TUMOR CELLS.	BIO	2R01 CA13175-04	85,790
SADOFF, HAROLD L.	CELL DIFFERENTIATION IN PROCARYOTIC ORGANISMS.	MBG	5R01 AI01863-18	42,107
SCHUETZ, ROBERT D.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.	NSS	5S05 RR07049-10	44,248
SCOTT, JERRY B.	ROLE OF CHEMICALS IN LOCAL BLOOD FLOW REGULATION.	PHY	5R01 HL10879-09	34,930

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MICHIGAN—Continued</b>				
SNYDER, LOREN R.....	VIRAL INDUCED CHANGES IN REPLICATION AND TRANSCRIPTION.....	VR	5R01 AI12133-02	34,792
SUELTER, CLARENCE H.....	COMPARATIVE ENZYMOLOGY OF NORMAL AND ABNORMAL TISSUE.....	BID	5R01 GM20716-02	35,678
SWEeley, CHARLES C.....	CHEMISTRY AND METABOLISM OF SPHINGOLIPIDS.....	PC	5R01 AM12434-08	103,578
SWEeley, CHARLES C.....	ROLE OF GLYCOSPHINGOLIPIDS IN PLATELET AGGREGATION.....	PC	1R01 HL17462-01	28,735
SWEeley, CHARLES C.....	SUPPORT FOR MASS SPECTROMETRY FACILITY.....	MCHB	5P07 RR00480-07	111,678
TIEN, H TI.....	BIMOLECULAR (BILAYER) LIPID MEMBRANES IN AQUEOUS MEDIA.....	BBCB	5R01 GM14971-09	58,825
TOBIN, THOMAS.....	CARDIOVASCULAR DRUGS AND THE NA- AND K-ION-ATPASE.....	CVB	5R01 HL16055-02	21,890
TOLBERT, N EDWARD.....	PEROXISOMES IN DEVELOPING LIVER AND KIDNEY.....	BID	2R01 HD06441-04	84,457
TROSKO, JAMES E.....	DNA REPAIR AND MUTAGENESIS IN MAMMALIAN CELLS.....	RAD	5R01 CA13048-04	73,467
TUCKER, H ALLEN.....	CORTISOL RECEPTORS IN CULTURED MAMMARY TISSUE.....	END	2R01 HD05750-04	38,424
TULINSKY, ALEXANDER.....	X-RAY CRYSTALLOGRAPHIC STUDIES OF ALPHA-CHYMOTRYPSIN.....	BBCB	1R01 GM21225-01	43,882
VELICER, LELAND F.....	MOLECULAR BIOLOGY OF RNA CANCER VIRUSES.....	VR	5R01 CA12101-05	65,956
WALKER, BRUCE E.....	DEVELOPMENT OF THE PALATE AND LIP.....	HED	2R01 DE02852-08	57,445
WELLS, WILLIAM W.....	ENERGY RELATIONSHIPS IN INBORN ERRORS OF METABOLISM.....	MET	5R01 AM10209-09	71,502
WELLS, WILLIAM W.....	METABOLISM OF MYOINOSITOL DURING DEVELOPMENT.....	HED	2R01 HD06007-04	54,826
WELSON, CLIFFORD W.....	POTENTIAL OF ERGOT ALKALOIDS IN CONTROL OF BREAST CANCER.....	ET	5R01 CA13777-03	20,575
WELSCH, FRANK.....	DISTRIBUTION AND FUNCTIONS OF ACH IN PLACENTA.....	PHRA	5R01 HD07091-03	19,832
WILLIAMS, JEFFREY F.....	STUDY OF IMMUNOLOGY DURING LARVAL TAPEWORM INFECTION.....	TMP	2R01 AI10842-04	86,114
WILSON, JOHN E.....	MITOCHONDRIAL HEXOKINASE AND BRAIN METABOLISM.....	PC	2R01 NS09910-04	65,145
WOLK, COLEMAN P.....	ISOLATION OF PATTERN MUTANTS IN BLUE-GREEN ALGAE.....	CBY	1R01 CA18133-01	20,200
WOOD, WILLIS A.....	HEME METABOLISM IN FETUSES, NEWBORNS, AND ADULTS.....	HEM	5R01 HD07894-02	48,281
ZUCHOW, JAMES J.....	COMMUTING PATTERNS IN U.S. METROPOLITAN AREAS.....	POP	1R01 HD08947-01	21,119
ORGANIZATION TOTAL	101	4,547,967		
<b>KALAMAZOO</b>				
<b>WESTERN MICHIGAN UNIVERSITY ZIP CODE 49001</b>				
EISENBERG, ROBERT C.....	MOLECULAR ORGANIZATION OF BACTERIAL MEMBRANES.....	MBC	5R01 AI09844-05	30,555
HARMON, ROBERT E.....	COLCHICINE DERIVATIVES AS ANTILEUKEMIC AGENTS.....	MCHA	5R01 CA13119-03	38,232
OLSEN, RONALD W.....	STUDY OF COMPETITION BETWEEN TWO SPECIES OF MICE.....	EXP	5R01 HD08468-02	6,230
ORGANIZATION TOTAL	3	75,017		
<b>MARQUETTE</b>				
<b>NORTHERN MICHIGAN UNIVERSITY ZIP CODE 49855</b>				
SMITH, TEMPLE F.....	DETAILED LAC OPERATOR FUNCTIONAL CHARACTERIZATION.....	SSS	5R01 GM20494-02	29,342
ORGANIZATION TOTAL	1	29,342		
<b>ROCHESTER</b>				
<b>OAKLAND UNIVERSITY ZIP CODE 48063</b>				
CALLEWAERT, DENIS M.....	MOLECULAR MECHANISMS IN CELLULAR IMMUNOLOGY.....	IMB	1R01 AI12766-01	48,751
HOVANESIAN, JOSEPH D.....	USE OF MOIRE TECHNIQUE TO MEASURE CORNEAL TOPOGRAPHY.....	VISA	5R01 EY00993-02	31,756
OBEAR, FREDERICK W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07131-06	26,966
REDDAN, JOHN R.....	CONTROL OF CELL DIVISION IN THE OCULAR LENS.....	VIS	5R01 EY00362-08	64,782
REDDY, VENKAT N.....	STUDY OF INTRAOCULAR TRANSPORT.....	VISA	5R01 EY00484-08	109,626
RILEY, MICHAEL V.....	CONTROL OF CORNEAL HYDRATION AND TRANSPARENCY.....	VISA	5R01 EY00541-06	36,782
ROY, ARUN K.....	HORMONAL CONTROL OF ALPHA-2U GLOBULIN SYNTHESIS IN LIVER.....	END	2R01 AM14744-04A1	42,853
WINKLER, BARRY S.....	PHOTORECEPTOR ELECTROGENESIS: ITS DYNAMICS AND CONTROLS.....	VISB	1R01 EY01219-01A1	54,137
ORGANIZATION TOTAL	8	415,653		
STATE TOTAL	399	27,185,873		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MINNESOTA</b>				
<b>AUSTIN</b>				
<b>UNIVERSITY OF MINNESOTA</b>	<b>ZIP CODE 55912</b>			
BROCKMAN, HOWARD L, JR	REGULATION OF CHOLESTERYL ESTER LEVELS IN THE AORTA	PC	1R01 HL17371-01	40,233
CHIPPAULT, JACQUES R	LIPIDS OF THE TRIPARANOL CATARACT	VISA	1R01 EY01424-01	40,432
HOLMAN, RALPH T	REQUIREMENTS OF POLYUNSATURATED FATTY ACIDS	NTN	5R01 AM04524-15	52,514
JENKIN, HOWARD M	LIPID CONTROL OF GROWTH OF NORMAL AND TUMORIGENIC CELLS	PTHB	5R01 CA14003-03	35,209
PRIVETT, ORVILLE S	RELATIONSHIPS OF DIET AND AIR POLLUTANTS TO AGING	NTN	1R01 AG00174-01	59,133
PRIVETT, ORVILLE S	EFFECT OF DIETARY FAT ON GLYCERIDE STRUCTURE	NTN	5R01 AM04942-15	62,663
PRIVETT, ORVILLE S	NEW ASPECTS OF NEOPLASTIC TISSUE LIPID ANALYSIS	MCWB	5R01 CA14180-03	41,322
SCHLENK, HERMANN	LIPIDS IN MICROORGANISMS AND PLANTS	PC	5R01 AM05165-14	42,986
SCHLENK, HERMANN	INTERCONVERSION OF LIPIDS IN ANIMALS	MET	2R01 AM13424-15	64,476
SCHLENK, HERMANN	STUDY OF CHEMICAL AND BIOLOGICAL PROPERTIES OF LIPIDS	HEP	5P01 HL08214-12	390,272
SCHMID, HARALD H	LIPID METABOLISM IN NORMAL AND NEOPLASTIC TISSUES	MET	5R01 CA13113-04	48,153
SCHMID, HARALD H	PHOSPHOLIPID BIOSYNTHESIS IN THE DEVELOPING BRAIN	PC	5R01 NS10013-03	29,118
ORGANIZATION TOTAL	12	906,511		
<b>DULUTH</b>				
<b>UNIVERSITY OF MINNESOTA</b>	<b>ZIP CODE 55812</b>			
BECK, LLOYD	PHARMACOLOGIC EVALUATION OF NEUROVASCULAR DILATION	PHRA	5R01 HL16353-03	60,647
CARLSON, ROBERT M	THE SYNTHESIS OF DIHYDROPYRONE ANTIBIOTICS	MCHA	5R01 AI10597-04	27,545
GUERIGUIAN, JEAN L	PROSTAGLANDIN-PROTEIN INTERACTIONS & HUMAN REPRODUCTION	REB	5R01 HD08949-02	28,228
SALO, WILMAR L	BIOCHEMISTRY OF AMINO SUGARS	PC	5R01 CA15653-05	27,630
ORGANIZATION TOTAL	4	144,050		
<b>MINNEAPOLIS</b>				
<b>HENNEPIN COUNTY MEDICAL CENTER</b>	<b>ZIP CODE 55415</b>			
HAGLIN, JOHN J	LUNG ALLOTRANSPLANTATION	SGYB	5R01 HL15246-02	104,557
ORGANIZATION TOTAL	1	104,557		
<b>MOUNT SINAI HOSPITAL</b>	<b>ZIP CODE 55404</b>			
EISENBERG, M MICHAEL	STUDIES OF UPPER GI IN NORMAL AND DIABETIC STATES	SGYA	3R01 AM12921-06S1	27,821
KYUHYUN, WANG	ELECTROCARDIOGRAPHIC EXERCISE STANDARDS FOR WOMEN	AFY	2R01 HL15663-03	16,192
SCHMITT, OTTO H	SPATIAL ELECTROCARDIOGRAPHIC VECTOR ANALYSIS	CVB	5R01 HL11325-08	44,364
SEGAL, MARVIN S	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	TEC	3R01 HL10701-09S1	527
SIMONSON, ERNST	CLASSIFICATION CODE FOR FRANK ORTHOGONAL ECG	EDC	1R01 HL17329-01	37,921
ORGANIZATION TOTAL	5	126,825		
<b>UNIVERSITY OF MINNESOTA</b>	<b>ZIP CODE 55455</b>			
ACKERMAN, EUGENE	A COMPUTER LINKAGE FOR A DUAL CAMERA SYSTEM	COM	1R01 HL16791-01	61,833
ACKERMAN, EUGENE	HEALTH COMPUTER SCIENCES RESOURCE	COM	2P07 RR00267-10	145,288
AHMED, KHALIL	STUDIES OF NORMAL AND CANCEROUS PROSTATE	PTHB	5R01 CA15062-02	24,515
ALTER, MILTON	CREUTZFELDT-JAKOB DISEASE: A TRANSMISSIBLE DEMENTIA	VR	1R01 NS11882-01	36,643
AMPLATZ, KURT	CORONARY REVASCULARIZATION USING AN ANGER CAMERA	RAD	3R01 HL13998-03S1	4,597
ANDERS, MARION W	ENVIRONMENTAL CHEMICALS AS CO-TOXICANTS	TOX	1R01 ES00953-01	45,542
ANDERS, MARION W	METABOLISM OF DIHALOMETHANES	PHRA	1R01 ES01082-01	37,701
ANDERSON, DWIGHT L	GENETIC ASPECTS OF DNA-PROTEIN INTERACTIONS	GEN	5R01 GM19743-02	59,484
ANDERSON, PAUL M	CARBAMYL PHOSPHATE SYNTHETASE: KINETICS AND BINDING	BIO	5R01 GM21392-02	18,479
AUSMAN, JAMES I	FACTORS INFLUENCING BRAIN TUMOR THERAPY	ET	1R01 CA15662-01A1	44,954
AUSMAN, JAMES I	IC TUMOR: BIOLOGIC PRINCIPLES INFLUENCING THERAPY	ET	1R01 CA15887-01	39,380
BAKER, ABE B	CEREBRAL VASCULAR PROGRAM PROJECT - CLINICAL CENTER	NSPA	5P01 NS03364-13	658,474
BARNETT, RONALD E	MECHANISM OF ALKALI CATION TRANSPORT	BBCB	5R01 GM18152-05	41,879
BERRY, DONALD A	EFFICIENT DESIGNS IN SEQUENTIAL CLINICAL TRIALS	COM	1R01 GM22234-01	16,140
BISHOP, JONATHAN S	INSULIN RESISTANCE AND ENZYMES OF GLYCOGEN METABOLISM	MET	5R01 AM13319-07	18,956
BLOEDEL, JAMES R	ORGANIZATION & FUNCTION OF CNS IN MOTOR CONTROL	NEUA	5R01 NS09447-05	31,486
BODLEY, JAMES W	THE MECHANISM OF TRANSLOCATION	MBC	2R01 GM17101-04	21,392



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MINNESOTA—Continued</b>				
BODLEY, JAMES W.	GUANINE NUCLEOTIDES AND PROTEIN CHAIN GROWTH	SSS	3R01 GM21359-01S1	5,366
BRAND, GERHARD K.	FOREIGN BODY TUMORIGENESIS	PTHB	5R01 CA10712-08	64,659
BROWN, DAVID M.	ISLET TRANSPLANTATION AND DIABETIC VASCULAR DISEASE	PTHA	5R01 AM17697-02	54,759
BRUDVIG, GLENN L.	MEDICAL LIBRARY MINICOMPUTER SYSTEM	BLR	1R01 LM02460-01	125,617
BRYANT, ROBERT G.	SOLVENT AND SMALL SOLUTES IN TISSUES AND PROTEINS	BBCB	2R01 GM18719-04	39,113
BRYANT, ROBERT G.	CHEMISTRY OF METAL ION-PROTEIN INTERACTIONS	BBCB	5R01 GM21335-02	33,398
BUCHWALD, HENRY.	EFFECT OF ILEAL BYPASS ON CHOLESTEROL & ATHEROSCLEROSIS	SGYB	5R01 HL11901-08	82,246
BUCHWALD, HENRY.	PROGRAM ON SURGICAL CONTROL OF THE HYPERLIPIDEMIAS	HEP	5P01 HL15265-02	1,104,862
BURKHARDT, DWIGHT A.	VISION AND INTRARETINAL POTENTIALS	VISB	2R01 EY00460-07	30,912
CAPPS, MARY J.	SINUSOIDAL ACCELERATION. A TEST OF VESTIBULAR FUNCTION	CMS	5R01 NS10560-02	26,179
CLICK, ROBERT E.	CELLULAR AND MOLECULAR ASPECTS OF IMMUNE RESPONSES	IMB	7R01 AI12898-01	41,740
COHN, JAY N.	SPLANCHNIC HEMODYNAMICS IN MAN	CVA	7R01 HL18020-01	30,510
COHN, JAY N.	HEMODYNAMIC FACTORS IN CLINICAL SHOCK AND HYPOTENSION	CVA	1R01 HL18043-01	67,627
CRADDOCK, PHILIP R.	LEUKEMIA CHEMOTHERAPY AND NEUTROPHIL DYSFUNCTION	ET	5R01 CA15627-02	22,891
DALMASSO, AGUSTIN P.	ROLE OF COMPLEMENT IN INTRAVASCULAR COAGULATION	HEM	5R01 HL15215-03	34,404
DELANEY, JOHN P.	GASTRITIS INDUCED BY INTESTINAL JUICES	SGYB	5R01 AM16431-03	55,712
DELANEY, JOHN P.	A PROSTHETIC SPHINCTER FOR INTESTINAL STOMAS	SRC	1R26 CA18015-01	37,217
DEMPSEY, MARY E.	STEROL METABOLISM IN HUMAN RENAL CANCER	PC	1R01 CA18256-01	14,985
DEMPSEY, MARY E.	ENZYMIC CHOLESTEROL SYNTHESIS	PC	5R01 HL08634-12	67,585
DOUGHMAN, DONALD J.	STUDY OF ORGAN CULTURE OF THE CORNEA	VISA	5R01 EY01211-02	44,548
DOUGLAS, STEVEN D.	MORPHODYNAMICS OF HUMAN LYMPHOCYTES AND MONOCYTES	ALY	5R01 AI12478-02	58,372
DUNHAM, EARL W.	VASCULAR ROLE OF PROSTAGLANDIN AND CYCLIC NUCLEOTIDES	PHRA	5R01 HL15447-03	24,055
DWALL, ARNDT J. III.	FLUID BARRIERS WITHIN THE COCHLEA	CMS	2R01 NS04615-12	51,433
DWORKIN, MARTIN	CELL-CELL INTERACTIONS IN THE MYXOBACTERIA	MBC	5R01 GM19957-03	46,804
EDSTROM, RONALD D.	NORMAL AND LEUKEMIC LYMPHOCYTE SURFACE GLYCOPROTEINS	PC	5R01 CA14351-02	29,420
EINZIG, STANLEY	REGIONAL BLOOD FLOW IN VIRAL MYOCARDITIS	CVB	1R01 HL18204-01	11,240
EISENBERG, M. MICHAEL	GASTROINTESTINAL/BILIARY VAGAL-GASTRIN MECHANISMS	SGYB	1R01 AM18379-01	45,255
ERLANDSEN, STANLEY L.	LYSOZYME SECRETION AND PANETH CELL FUNCTION	MBY	1R01 AM18344-01	39,134
FARAS, ANTHONY J.	RNA-DIRECTED DNA POLYMERASE & 70S RNA OF ONCORNAVIRUSES	VR	7R01 CA18303-01	42,167
FENSTAD, ALFRED M.	FEMALE SEX HORMONE MECHANISM IN PREGNANCY GINGIVITIS	DEN	5R23 DE03947-02	8,923
FOLKE, LARS E.	EVOLUTION OF MICROBIAL RESISTANCE TO ANTIPLAQUE AGENTS	DEN	1R01 DE04322-01	23,359
FOWLKS, W. L.	STUDIES OF THE BLOOD-VITREOUS	VISA	1R01 EY01258-01A2	65,238
FOX, IRWIN J.	REGIONAL MYOCARDIAL FLOW AND FUNCTION RELATIONSHIPS	CVA	1R01 HL18024-01	44,151
FRALEY, ELWIN E.	VIROLOGY, IMMUNOBIOLOGY, & BIOCHEMISTRY OF RENAL CANCER	CAK	2P01 CA13095-04	200,220
FRALEY, ELWIN E.	VIROLOGY AND IMMUNOLOGY OF CANCER OF HUMAN UROTHELIUM	SRC	5R26 CA15551-02	106,385
GALJ-PECZALSKA, KAZIMIERA J.	IMMUNOLOGY OF HUMAN LYMPHOID TUMORS OF B-CELL ORIGIN	PTHB	1R01 CA17034-01	42,037
GANDER, JOHN E.	GLYCAN ROLE IN GALACTOFURANOSIDASE PROPERTIES	PC	1R01 GM20441-01A1	12,350
GASSMAN, PAUL G.	VINCISTINE & VINBLASTINE DERIVATIVES & MODELS	MCHA	5R01 CA16967-02	35,824
GASSMAN, PAUL G.	HIGHLY STRAINED NITROGEN HETEROCYCLES	MCHA	1R01 CA17269-01	83,183
GASSMAN, PAUL G.	A STEREOSPECIFIC FUNCTIONALIZATION OF AROMATIC AMINES	MCHB	7R01 GM22346-01	22,786
GAULT, N. L. JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05385-14	255,345
GERMAINE, GREG R.	ROLE OF ORAL BACTERIAL PROTEASES IN ORAL INFLAMMATION	DEN	1R01 DE04171-01	52,332
GOLDBERG, NELSON D.	STUDY OF KREBS' CYCLE AND CYCLIC NUCLEOTIDE CONTROL	PHRA	5R01 NS05979-10	45,270
GORLIN, ROBERT J.	STUDY OF ORAL PATHOLOGY	SSS	5P01 DE01770-13	79,782
GRAGE, THEODOR B.	COOPERATIVE STUDY OF ONCOLOGY	CCI	5R10 CA12282-05	59,585
GRAY, GARY R.	STUDY OF ANTITUMOR ACTIVE COMPONENTS OF BCG CELL WALLS	ET	5R01 CA15325-02	61,853
GUTMANN, HELMUT R.	MECHANISM OF ACTION OF CARCINOGENIC AROMATIC AMINES	ET	5R01 CA02571-21	56,431
GUTMANN, HELMUT R.	TRANSFORMATION OF CELLS IN VITRO	ET	5R01 CA13713-03	28,498
HALBERG, FRANZ	CARCINOSTATIC TREATMENT ACCORDING TO SPECTRUM OF RHYTHMS	ET	5R01 CA14445-03	73,664
HANSON, RUSSELL F.	METABOLISM OF BILE ACIDS	GMA	5R01 AM15077-05	64,593
HARRIS, JOHN E.	STUDIES OF THE TRIPARANOL CATARACT	VISA	5R01 EY01200-02	37,054
HARTUP, WILLARD W.	RESEARCH IN DEVELOPMENTAL PSYCHOLOGY	HDMC	2P01 HD05027-06	257,892
HOLTZMAN, JORDAN L.	CYTOCHROME-REDUCTASE ACTIVATION IN HYDROXYLATIONS	PHRA	1R01 GM21310-01A1	40,130
HOWARD, JAMES B.	L-ASPARAGINASE ENZYMOLOGY-SIDE EFFECTS OF CHEMOTHERAPY	BIO	5R01 CA14538-03	31,347
HUNTLEY, THOMAS E.	FETO-MATERNAL METABOLISM OF UNSATURATED FATTY ACIDS	HED	5R01 HD08595-02	24,026
ISAACSON, ROBERT J.	QUANTITATION OF JAW FUNCTION	DEN	2R01 DE03528-02	105,340
JACOB, HARRY S.	ABNORMAL BLOOD CELL MEMBRANES IN DISEASE	HEM	5R01 AM15730-07	35,561
JACOBSON, MAYNARD E.	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	SSS	5R01 AM04412-15	42,305
JENKINS, JAMES J.	CENTER FOR RESEARCH IN HUMAN LEARNING	HOGO	5P01 HD01136-11	153,638

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MINNESOTA—Continued</b>				
JOHNSON, RUSSELL C.	CHARACTERIZATION OF PATHOGENIC & SAPROPHYTIC LEPTOSPIRAE	BM	5R01 AI06589-11	37,363
JOHNSON, RUSSELL C.	COMPARATIVE STUDIES OF PARASITIC SPIROCHETES	BM	2R01 AI08124-08	47,729
JORGENSEN, CHARLES R.	ADENOSINE AS AN INDICATOR OF CARDIAC ISCHEMIA IN MAN	CVB	2R01 HL16418-02	45,923
KELLER, KENNETH	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	5S05 RR07052-10	72,167
KELLY, WILLIAM G.	STUDIES ON METABOLISM OF STEROIDS	END	5R01 AM17570-02	90,332
KENNEDY, BYRL J.	STUDY OF ADVANCED MALIGNANT DISEASES	CAP	5P02 CA08832-09	561,610
KENNEDY, BYRL J.	ACUTE LEUKEMIA GROUP B - MINNESOTA MEDICAL ONCOLOGY	CCI	1R10 CA16450-01	64,411
KEYS, ANCEL	STUDY OF EPIDEMIOLOGY OF CORONARY HEART DISEASE	TEC	2R01 HL04697-16	32,566
KIRKWOOD, SAMUEL	USE OF ENZYMES IN STRUCTURAL CARBOHYDRATE CHEMISTRY	BIO	2R01 GM09293-13A1	37,796
KNOX, CHARLES K.	REFLEX CONTROL OF RESPIRATION	PHY	5R01 HL16430-02	14,683
KOERNER, JAMES F.	PROTEIN SYNTHESIS FOLLOWING BACTERIOPHAGE INFECTION	BIO	5R01 AI04479-14	37,565
KOLTHOFF, IZAAK M.	POLAROGRAPHY WITH ALBUMIN AND CANCEROUS HUMAN BLOOD SERA	MCHB	1R01 CA16466-01	25,457
KRIVIT, WILLIAM	LEUKEMIA CENTER (PLATELET) PROGRAM-CCA	CCI	2R10 CA11996-12	89,111
KRONENBERG, RICHARD S.	RESPIRATORY CONTROL IN PATIENTS WITH HYPOVENTILATION	CVB	5R01 HL13714-05	15,767
LA BERGE, DAVID	STUDY OF BEGINNING AND FLUENT READING	DBR	5R01 HD06730-03	57,010
LAZAROW, ARNOLD	SELECTIVE GROWTH AND DEVELOPMENT IN ORGAN CULTURE	MBY	5R01 AM17766-02	54,695
LEE, JUI S.	VILLUS PRESSURES AND LYMPH FLOW OF INTESTINE	PHY	1R01 AM18085-01	33,697
LEETE, EDWARD	METABOLISM OF NATURAL PRODUCTS OF MEDICINAL INTEREST	MCHA	2R01 GM13246-18	66,215
LEVITT, MICHAEL D.	PRODUCTION AND ABSORPTION OF INTESTINAL GASES	GMA	2R01 AM13309-07	76,051
LEVITT, SEYMOUR H.	RADIATION ONCOLOGY RESEARCH AND CLINICAL CENTER	CAP	1P01 CA15548-01A1	480,010
LEVITT, SEYMOUR H.	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	1P01 CA16545-01	84,742
LFSON, NATHAN	ABSORPTION BY INTESTINAL MUCOSA IN VITRO	PHY	5R01 AM06700-13	34,446
LILLEHEI, RICHARD C.	SURVIVAL OF ORGANS UNDER VARIOUS EXPERIMENTAL CONDITIONS	SGYB	5R01 AM03361-16	62,699
LILLEHEI, RICHARD C.	STUDY OF CRYOPRESERVATION OF KIDNEY	SGYA	5R01 AM16830-02	59,848
LUMRY, RUFUS W.	CONFORMATIONAL BASIS OF ENZYMIC CATALYSIS	BBCA	5R01 AM05853-14	49,727
MANNERING, GILBERT J.	DRUG METABOLISM AND BIOCHEMICAL PHARMACOLOGY	PIR	2R01 GM15477-09	273,771
MARIANI, TONI N.	INTERRELATIONSHIP BETWEEN MALIGNANCY AND IMMUNITY	PTHB	3R01 CA12929-03S1	9,294
MARIANI, TONI N.	INTERRELATIONSHIP BETWEEN MALIGNANCY AND IMMUNITY	PTHB	2R01 CA12929-04	37,437
MC KHANN, CHARLES F.	BIOLOGICAL AND CLINICAL STUDIES OF COLON CARCINOMA	SRC	1R26 CA17774-01	81,747
MEYER, MAURICE W.	CIRCULATION STUDIES IN TEETH AND SUPPORTING STRUCTURES	DEN	5R01 DE02212-08	65,132
MICHAEL, ALFRED F.	STUDY OF RENAL DISEASE IN CHILDHOOD	ALY	5R01 AI10704-15	90,938
MILLER, JACK W.	UTERINE DRUGS, RECEPTORS, RELAXANTS, AND LUMINAL FLUID	PHRA	5R01 HD00443-13	24,284
MILLER, JOSHUA	ENHANCEMENT IN ORGAN TRANSPLANTATION	SGYA	1R01 AM17407-01A1	57,902
MILLER, WILMER G.	CHOLESTERIC LIQUID CRYSTALS OF BIOPOLYMERS	BBGB	2R01 GM16922-07	61,520
MIRKIN, BERNARD L.	DEVELOPMENTAL AND CLINICAL PEDIATRIC PHARMACOLOGY	SSS	1R01 HD08580-01	244,415
MOLDOW, CHARLES F.	CELL SURFACE RECEPTORS FOR ONCOGENIC VIRUSES	VR	5R01 CA13722-03	31,384
NAJARIAN, JOHN S.	STUDIES OF ORGAN TRANSPLANTATION IN ANIMALS AND MAN	AMP	5P02 AM13083-07	388,420
NAJARIAN, JOHN S.	ISOLATION AND TRANSPLANTATION OF PANCREATIC ISLETS	SGYB	5R01 AM16566-02	69,534
NELSON, KENNETH G.	RATE OF SN3F3P04 FORMATION ON TOOTH MINERAL	DEN	5R01 DE03688-02	20,991
NESBIT, MARK E, JR.	COOPERATIVE STUDY OF CHEMOTHERAPY FOR CHILDREN'S CANCER	CCI	2R10 CA07306-12	123,995
PAPARELLA, MICHAEL M.	EXPERIMENTALLY INDUCED SEROUS OTITIS MEDIA	CMS	5R01 NS07623-08	79,024
PAPARELLA, MICHAEL M.	MECHANISMS OF HEARING LOSS	COR	1P01 NS12125-01	492,300
PARSONS, JONATHAN A.	DEVELOPMENT OF NEOPLASTIC PITUITARY TUMOR CELLS	PTHB	7R01 CA17476-01	33,544
PASS, FRANKLIN	PAPILLOMA VIRUS-ASSOCIATED HUMAN TISSUE ANTIGENS	ALY	3R01 CA15955-01S1	6,241
PASS, FRANKLIN	PAPILLOMA VIRUS-ASSOCIATED HUMAN TISSUE ANTIGENS	VR	2R01 CA15955-02A1	45,934
PICK, ANNE	MINNESOTA SYMPOSIUM ON CHILD PSYCHOLOGY	DBR	5R13 HD01765-09	5,789
PLAGEMANN, PETER G.	BIOCHEMICAL STUDIES OF RAT HEPATOMA CELLS IN CULTURE	MBY	5R01 CA13422-03	25,389
PORTOGHESE, PHILIP S.	SITE-DIRECTED ALKYLATING AGENTS FOR NARCOTIC RECEPTORS	MCHA	5R01 NS08738-06	40,044
PRINEAS, RONALD J.	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	TEC	2R01 HL11898-08	53,457
PURPLE, RICHARD L.	STUDIES ON INTEGRATIVE MECHANISMS OF NEURONS	VISB	2R01 EY00293-10	25,321
QUEBBEMANN, ALOYSIUS J.	THE PHARMACOLOGY OF RENAL TUBULAR EXCRETORY TRANSPORT	PHRA	5R01 AM11415-06	25,167
QUIE, PAUL G.	HOST REACTIONS TO MICROORGANISMS IN CHRONIC DISEASE	BM	5R01 AI06931-10	49,086
QUIE, PAUL G.	STUDIES OF OPSONINS IN PHAGOCYTOSIS	BM	5R01 AI08821-06	35,615
QUIE, PAUL G.	HOST DEFENSE AGAINST CANDIDA ALBICANS	BM	1R01 AI12402-01	44,018
RATHBUN, WILLIAM B.	GLUTATHIONE METABOLISM IN OCULAR TISSUES	VISA	5R01 EY01197-02	61,524
REYNOLDS, JOHN W.	ADRENOCORTICAL FUNCTION IN ABNORMAL NEWBORN INFANTS	HED	5R01 HD05001-06	47,269
RISTOW, SANDRA S.	PURIFICATION OF TUMOR SPECIFIC ANTIGENS	ALY	5R01 CA14815-02	43,407
ROGERS, PALMER	SPECIFIC M-RNA CONTROL BY CANAVANINE AND ARGININE	MBC	3R01 GM18953-03S1	6,096
ROON, ROBERT J.	BIOTIN HOLOENZYME SYNTHETASE: MECHANISM & SPECIFICITY	BIO	5R01 GM20207-02	27,052

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MINNESOTA—Continued</b>				
SALAPATEK, PHILIP H.....	PATTERN PROCESSING DURING HUMAN INFANCY.....	EXP	1R01 HD07317-01A1	78,485
SCARR-SALAPATEK, SANDRA W.....	BEHAVIOR AND GENETIC STUDY OF FAMILIES.....	DBR	5R01 HD08016-02	101,643
SCHACHTELE, CHARLES F.....	STUDIES ON THE MOLECULAR BASIS OF DENTAL CARIES.....	DEN	5R01 DE03654-03	43,336
SCHAEFFER, ERWIN M.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05322-14	74,968
SCHMIDTKE, JON R.....	CELLULAR IMMUNOLOGY OF HUMAN LYMPHOCYTES.....	IMB	1R01 AI12813-01	21,442
SCHMITT, OTTO H.....	ANALYSIS OF TIME-COHERENT CARDIOVASCULAR DATA.....	COM	2R01 HL07575-12	67,736
SCHUMAN, LEONARD M.....	EPIDEMIOLOGIC STUDY OF PROSTATIC CANCER.....	SRC	1R26 CA18467-01	111,244
SCHWARTZ, SAMUEL.....	METABOLIC STUDIES OF CONGENITAL BOVINE PORPHYRIA.....	HEM	5R01 AM02096-16	29,707
SCHWARTZ, SAMUEL.....	PORPHYRIN HEME AND BILE PIGMENT METABOLISM.....	HEM	5R01 AM12466-11	57,356
SCOTT, ROBERT E.....	MEMBRANE STRUCTURE, CONTROL OF CELL DIVISION, AND CANCER.....	MBY	5R01 CA13458-03	28,445
SEAL, ULYSSES S.....	PLASMA HORMONE-BINDING PROTEINS AND ESTROGEN ACTION.....	END	5R01 AM11376-14	52,900
SIMMONS, RICHARD L.....	ORGAN REPLACEMENT USING GRAFTS MODIFIED IN VITRO.....	SGYA	1R01 AI12754-01	82,961
SIMMONS, RICHARD L.....	IMMUNOLOGICAL REACTIVITY IN SPECIAL CIRCUMSTANCES.....	IMB	5R01 CA11605-07	137,964
SIMMONS, RICHARD L.....	STUDY OF POST-TRAUMATIC PULMONARY INSUFFICIENCY.....	SGYB	5R01 HL14969-02	28,165
SINGER, LEON.....	STUDY OF FLUORIDE METABOLISM.....	DEP	5P01 DE01850-12	211,585
SOINE, TAITO O.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05634-08	45,765
SONG, CHANG W.....	VASCULARITY AND REOXYGENATION IN X-IRRADIATED TUMORS.....	RAD	5R01 CA13353-03	47,954
SPARBER, SHELDON B.....	LASTING EFFECTS OF PRENATAL LOW DOSE METHYLMERCURY.....	HED	5R01 ES00760-02	26,936
STAUFFER, LEE D.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05448-14	27,629
SUDO, SARA Z.....	ECOLOGY OF FUSOBACTERIA IN THE ORAL CAVITY.....	DEN	1R23 DE04066-01	9,198
TAYLOR, HENRY L.....	CARDIAC FUNCTION AND PROGNOSIS OF CORONARY DISEASE.....	TEC	5R01 HL14905-04	763
TAYLOR, HENRY L.....	MYOCARDIAL FUNCTION, RISK FACTORS AND FUTURE CHD.....	TEC	1R01 HL16909-01	40,436
TERZUOLO, CARLO A.....	PROBLEMS OF NERVE CELL PHYSIOLOGY.....	PHY	2R01 NS02567-16	43,629
TIMM, GERALD W.....	SYSTEM DESIGN STUDY OF FLUID ENERGY TRANSFER DEVICES.....	SGYA	5R01 GM21178-02	57,431
TOBIAN, LOUIS.....	PATHOGENESIS OF ARTERIAL HYPERTENSION.....	CVB	2R01 HL02008-21	163,113
TOBIAN, LOUIS.....	KIDNEY, NA, CARDIAC OUTPUT, ARTERIOLES, & HYPERTENSION.....	HEP	1P01 HL17871-01	451,784
TURNER, RICHARD H.....	BIOSYNTHESIS OF ALPHA1-ANTITRYPSIN IN EMPHYSEMA.....	YIP	1R23 HL18366-01	41,045
ULSTROM, ROBERT A.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00400-07	683,170
UNGAR, FRANK.....	STUDY OF REGULATION OF FORMATION OF STEROIDS.....	END	5R01 AM16829-03	67,141
VAN PILSUM, JOHN F.....	REGULATION OF RAT KIDNEY TRANSAMIDINASE ACTIVITIES.....	BIO	5R01 AM17672-02	25,934
VERNIER, ROBERT L.....	MALDEVELOPMENT OF EMBRYONIC AND FETAL KIDNEY AND LUNG.....	PTHA	5R01 AM15146-05	43,807
VERNIER, ROBERT L.....	IMMUNOLOGIC MECHANISMS IN CARDIOVASCULAR DISEASE.....	HEP	5P01 HL06314-15	1,036,046
VINCE, ROBERT.....	RIBOSOMAL MAPPING WITH CARBOCYCLIC PUROMYCIN ANALOGS.....	MCHA	5R01 CA13592-06	61,502
VINCE, ROBERT.....	DESIGN OF AMINONUCLEOSIDE CHEMOTHERAPEUTIC AGENTS.....	MCHA	1R01 CA16623-01	58,734
VISSCHER, MAURICE B.....	STUDIES OF MYOCARDIAL PHYSIOLOGY.....	PHY	5R01 HL03212-18	52,307
WANGENSTEEN, O DOUGLAS.....	BLOOD-GAS BARRIER STUDIES IN FETAL & NEONATAL LUNGS.....	HED	1R01 HD08981-01	35,210
WANNAMAKER, LEWIS W.....	STUDY OF BIOLOGY OF STREPTOCOCCI.....	AIRC	5P01 AI08724-19	102,541
WANNAMAKER, LEWIS W.....	EPIDEMIOLOGY OF STREPTOCOCCAL INFECTIONS.....	BM	2R01 AI09527-11	121,178
WARD, W DIXON.....	THE DETERMINATION OF SUSCEPTIBILITY TO HEARING LOSS.....	SSS	5R01 NS04403-13	62,686
WATSON, DENNIS W.....	STREPTOCOCCAL PYROGENIC EXOTOXINS: HOST INTERACTIONS.....	BM	2R01 AI06487-11	61,695
WATSON, DENNIS W.....	IMMUNOBIOLOGY OF GRAM-NEGATIVE BACTERIAL ENDOOTOXINS.....	BM	1R01 AI12673-01	33,803
WATTENBERG, LEE W.....	HISTOCHEMICAL AND QUANTITATIVE STUDIES OF NEOPLASIA.....	PTHA	5R01 CA09599-17	58,985
WATTENBERG, LEE W.....	INHIBITION OF CHEMICAL CARCINOGENESIS BY ANTIOXIDANTS.....	ET	5R01 CA14146-03	42,033
WATTENBERG, LEE W.....	INHIBITION OF NEOPLASIA OF THE LARGE BOWEL.....	SRC	5R26 CA15638-02	62,019
WETLAUFER, DONALD B.....	MECHANISM OF LYSOZYME ACTION ON MAMMALIAN CELLS.....	BIO	5R01 CA15891-02	26,948
WETLAUFER, DONALD B.....	KINETICS AND MECHANISMS OF PROTEIN SELF-ASSEMBLY.....	BBCA	2R01 GM18814-04	51,543
WHITE, JAMES G.....	STRUCTURAL PHYSIOLOGY AND PATHOLOGY OF BLOOD PLATELETS.....	HEM	3R01 HL11880-06S3	4,000
WHITE, JAMES G.....	STRUCTURAL PHYSIOLOGY & PATHOLOGY OF BLOOD PLATELETS.....	HEM	5R01 HL11880-07	87,250
WILSON, IVAN D.....	IMMUNOGLOBULINS AND THE STOMACH, LIVER, AND INTESTINES.....	ALY	3R01 AM11803-06S1	6,465
WILSON, THEODORE A.....	FLOW IN COLLAPSIBLE TUBES AND AIRWAY COMPRESSION.....	CVA	5R01 HL12980-06	19,559
WITKOP, CARL J, JR.....	OCULOCUTANEOUS PIGMENT DEFECTS, BLOCKS AND TREATMENT.....	GEN	3R01 AM15317-03S1	5,016
WITKOP, CARL J, JR.....	OCULOCUTANEOUS PIGMENT DEFECTS, BLOCKS AND TREATMENT.....	SSS	2R01 AM15317-04	38,562
WITKOP, CARL J, JR.....	HEREDITARY DEFECTS IN TEETH AND BONE.....	DEN	3R01 DE03686-02S1	44,042
WITKOP, CARL J, JR.....	ALBINISM.....	SSS	1P01 GM22167-01	121,240
WOLD, FINN.....	PROTEIN STRUCTURE AND FUNCTION.....	BIO	5R01 GM15053-09	79,533
YUNIS, EDMOND J.....	IMMUNOLOGICAL ASPECTS OF AGING.....	IMB	5R01 AI10153-05	43,526
YUNIS, EDMOND J.....	IMMUNOLOGIC FACTORS IN SPONTANEOUS MAMMARY CARCINOMA.....	IMB	2R01 CA11933-04	49,405
YUNIS, JORGE J.....	HETEROCHROMATIN, REPETITIVE DNA, AND CELL FUNCTION.....	GEN	5R01 HD01962-10	51,521
ZIMMERMAN, BEN G.....	PHARMACOLOGIC AND REFLEX INFLUENCE ON VASCULAR TONE.....	PHRA	5R01 HL08570-12	41,643
ORGANIZATION TOTAL	194 16,109,680			



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MINNESOTA—Continued</b>				
<b>NORTHFIELD</b>				
<b>ST. OLAF COLLEGE</b> <b>ZIP CODE 55057</b>				
HENDRICKSON, H STEWART	LIPOLYTIC ENZYME ACTION ON LIPID MEMBRANES	BBCB	1R01 NS11777-01	20,188
ORGANIZATION TOTAL	1			20,188
<b>ROCHESTER</b>				
<b>AMERICAN ACADEMY OF OPHTHALMOLOGY AND OTOLARYNGOLOGY</b> <b>ZIP CODE 55901</b>				
TS'O, MARK O	PATHOLOGY OF RETINAL DYSFUNCTION	VIS	5R01 EY00790-04	44,056
ORGANIZATION TOTAL	1			44,056
<b>INDIVIDUAL AWARD-SIEKERT, ROBERT G.</b> <b>ZIP CODE 55901</b>				
SIEKERT, ROBERT G.	SURVEY REPORT ON CEREBROVASCULAR DISEASE - 4TH EDITION	NSS	2R13 NS08330-04	5,025
ORGANIZATION TOTAL	1			5,025
<b>MAYO FOUNDATION</b> <b>ZIP CODE 55901</b>				
ALBERT, A.	PROTEIN HORMONES IN THE BODY FLUIDS OF MAN	END	5R01 AM01738-17	35,522
ARNAUD, CLAUDE D.	PARATHYROID HORMONE AND CALCITONIN	END	5R01 AM12302-08	103,956
BAKER, HILLIER L, JR	COMPUTERIZED ROENTGENOLOGIC/CLINICAL DIAGNOSTIC METHODS	RAD	5R01 CA15902-02	36,888
BASSINGTHWAIGHTE, JAMES B.	DISPERSION OF DIFFUSIBLE INDICATORS IN THE BODY	PHY	2R01 HL09719-11	64,000
BASSINGTHWAIGHTE, JAMES B.	HETEROGENEITY OF REGIONAL MYOCARDIAL BLOOD FLOW	CVA	1R01 HL17639-01	61,579
BEELER, GEORGE W, JR	EXCITATION-CONTRACTION COUPLING IN MYOCARDIUM	PHY	5R01 HL12824-05	45,184
BISEL, HARRY F.	COOPERATIVE STUDY OF CANCER OF THE BREAST	CCI	2R10 CA03664-17	29,915
BOWIE, E J.	CONTROL OF COAGULATION	HEP	1P01 HL17430-01	326,016
BRIMUJOIN, WILLIAM S.	AXONAL TRANSPORT IN ADRENERGIC AND CHOLINERGIC NERVES	PHRA	2R01 NS11855-04A1	54,974
BROWN, ARNOLD L, JR	HISTOLOGICAL GRADING OF PROSTATIC CARCINOMA	SRC	5R26 CA15804-02	25,180
BRUBAKER, RICHARD F	PATHOLOGY OF THE BLOOD-AQUEOUS BARRIER	VISA	5R01 EY00634-05	59,969
CARR, DAVID T.	SUPPORT FOR CLINICAL CANCER CENTER	CAP	5P02 CA11911-05	524,176
CARR, DAVID T.	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	CAP	5P02 CA15083-02	529,483
CHAO, EDMUND Y.	FUNCTIONAL FORCES IN NORMAL AND ABNORMAL FINGERS	AFY	1R01 AM17172-01A1	76,251
CODE, CHARLES F.	MOTOR AND ELECTRICAL ACTIVITY OF THE ALIMENTARY CANAL	GMA	5R01 AM02015-17	22,882
DONALD, DAVID E.	RESPONSE OF THE TOTALLY DENERVATED HEART TO EXERCISE	AFY	5R01 HL06143-15	61,705
DOUSA, THOMAS P.	CELLULAR ACTION OF VASOPRESSIN IN THE KIDNEY	GMB	2R01 AM16105-04	73,379
DYCK, PETER J.	PERIPHERAL NEUROPATHY IN MAN	NEUB	5R01 NS05811-11	89,203
DYCK, PETER J.	EXPERIMENTAL HYPERTROPHIC NEUROPATHY	NEUB	5R01 NS07541-08	27,075
ENGEL, ANDREW G.	ELECTRON MICROSCOPY OF MYOPATHIES	NEUB	5R01 NS06277-10	73,081
FARROW, GEORGE M.	URINE CYTOLOGY	SRC	1R26 CA16725-01A1	33,775
GLEICH, GERALD J.	THE FUNCTIONS OF EOSINOPHILS	ALY	2R01 AI09728-06	52,236
GLEICH, GERALD J.	ALLERGIC DISEASE CENTER PROGRAM GRANT	AIRC	5P15 AI11483-03	80,990
GODT, ROBERT E.	CALCIUMION, LENGTH & FORCE VS. VELOCITY IN MUSCLE	PHY	1R01 AM17828-01A1	39,816
GRABOWSKI, ERIC F.	TRANSPORT PHENOMENA IN THROMBOSIS	CVA	1R01 HL17443-01	36,525
HOFMANN, ALAN F.	ROLE OF BILE-ACID METABOLISM IN HEALTH AND DISEASE	MET	5R01 AM16770-03	89,640
HOWARD, FRANK M, JR	PREDNISONE IN MYASTHENIA GRAVIS	NEUA	5R01 NS11436-02	14,931
HYATT, ROBERT E.	VENTILATION MECHANICS IN CHRONIC PULMONARY DISEASE	AFY	5R01 HL12229-13	86,472
HYATT, ROBERT E.	STUDY OF PULMONARY MECHANICS	CVA	2R01 HL14593-04	47,706
JORDON, ROBERT E.	IMMUNOPATHOLOGY OF BULLOUS SKIN DISEASES	GMA	5R01 AI12049-02	50,625
JOWSEY, JENIFER	STUDY OF OSTEOPOROSIS AND METABOLIC BONE DISORDERS	SSS	5R01 AM08568-11	118,495
KAYE, MICHAEL P.	NERVE GROWTH FACTOR EFFECT ON THE DENERVATED HEART	CVB	1R01 HL18123-01	63,281
KELLY, KEITH A.	MOTILITY OF THE DIGESTIVE TRACT IN HEALTH AND DISEASE	GMA	1R01 AM18278-01	105,442
KELLY, PATRICK J.	HEMODYNAMIC FACTORS IN FRACTURES AND BONE DISEASE	SGVB	5R01 AM15980-03	52,495
KERR, FREDERICK W.	INVESTIGATION OF THE PHYSIOLOGICAL BASIS OF ACUPUNCTURE	SSS	1R01 GM21981-01	43,671
KERR, FREDERICK W.	SOMATIC SENSORY AND VISCERAL EFFERENT PATHWAYS	NEUB	2R01 NS05995-09A2	77,839
KLINE, BRUCE C.	PLASMID DNA REPLICATION	MBC	7R01 GM22682-01	40,006
KNOX, FRANKLYN G.	INTRANERAL REGULATION OF SODIUM REABSORPTION	GMB	5R01 HL14133-05	54,306
KOTTKE, BRUCE A.	SUPPORT FOR ATHEROSCLEROSIS RESEARCH CENTER	SRC	5P17 HL14196-05	606,599
KRUEGER, ROBERT G.	MURINE MYELOMA TUMOR STUDIES	PTHB	5R01 CA13333-04	12,476
KUEPPERS, FRIEDRICH.	PROTEASE INHIBITORS IN HUMAN BRONCHIAL MUCUS	CVA	1R01 HL16752-01A1	37,592
KURLAND, LEONARD T.	STUDY OF NATURAL HISTORY OF HEART, CANCER, AND STROKE	EDC	2P01 GM14231-10	415,347

**Table 2.—NIH Research Grants, by Area, Organization and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MINNESOTA—Continued</b>				
KYLE, ROBERT A.	CHEMOTHERAPY OF ACUTE LEUKEMIA AND RELATED DISORDERS	CCI	2R10 CA04646-16	50,850
KYLE, ROBERT A.	STUDIES ON MONOCLONAL GAMMOPATHIES IN HUMANS	CAP	1P01 CA16835-01	138,879
LEE, CHING Y.	MODE OF ACTION OF LUTEINIZING HORMONE	REB	5R01 HD08099-02	35,953
MALDONADO, JORGE E.	THE PLATELET LINE IN MYELOPROLIFERATIVE MALIGNANCIES	PTHB	5R01 CA15103-02	36,208
MANN, KENNETH G.	PRIMARY STRUCTURE OF PROTHROMBIN	HEM	5R01 HL16150-02	53,092
MATTOX, VERNON R.	SYNTHESIS AND ISOLATION OF CORTISONEGLUCOSIDURONIC ACID	MCHA	5R01 AM05452-13	83,477
MC DUFFIE, FREDERIC C.	IMMUNE COMPLEXES IN RHEUMATOID ARTHRITIS	ALY	5R01 AM17174-02	55,972
MEYER, JOHN L.	EPITAXIAL RELATIONSHIPS IN UROLITHIASIS	BBCB	5R01 AM17717-02	29,949
MEYERS, PAUL	TOLERANCE AND IMMUNITY TO AVIAN RNA TUMOR VIRUSES	VR	5R01 CA15494-03	54,589
MICHENFELDER, JOHN D.	CEREBRAL METABOLISM AND BLOOD FLOW DURING ANESTHESIA	NEUB	5R01 NS07507-08	57,089
MICHENFELDER, JOHN D.	CEREBRAL METABOLISM AND BLOOD FLOW	NEUB	2R01 NS07507-09	92,702
MILLIKAN, CLARK H.	CLINICAL STUDY OF CEREBROVASCULAR DISEASE	NSPA	5P01 NS06663-09	325,995
MILLIKAN, CLARK H.	CEREBROVASCULAR DISEASE NOMENCLATURE COMMITTEES	NSS	2R01 NS07434-02	8,000
MOERTEL, CHARLES G.	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA13650-03	116,977
MOSES, HAROLD L.	MECHANISM OF CHEMICAL CARCINOGENESIS IN VITRO	PTHB	1R01 CA16816-01	70,931
MURGITA, ROBERT A.	REGULATION OF CELL-MEDIATED IMMUNITY BY ANTIBODY	ALY	1R01 AI12547-01	30,595
PIERRE, ROBERT V.	CHROMOSOME ANALYSES IN THE DIAGNOSIS OF PRELEUKEMIA	HEM	5R01 CA12843-04	57,332
REHDER, KAI	ALVEOLAR VENTILATION IN ANESTHETIZED MAN	CVB	5R01 HL12090-08	64,574
RYAN, ROBERT J.	STUDY OF HUMAN PITUITARY GONADOTROPHINS	END	5R01 HD03726-09	92,502
RYAN, ROBERT J.	MODE OF ACTION OF REPRODUCTIVE HORMONES	HDPR	1P01 HD09140-01	408,473
SHEPHERD, JOHN T.	REFLEX CONTROL OF RESISTANCE AND CAPACITANCE VESSELS	AFY	5R01 HL05883-15	115,059
SHEPHERD, JOHN T.	GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 R005085-04	351,551
SHEPHERD, JOHN T.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 R005530-13	255,345
SMITH, LYNWOOD H.	CALCIUM UROLITHIASIS	GMB	1R01 AM17858-01	65,562
SPELSBERG, THOMAS C.	ACIDIC CHROMATIN PROTEINS AND CARCINOGENS	ET	2R01 CA14920-03	66,750
SPELSBERG, THOMAS C.	MODE OF ACTION OF SEX STEROID HORMONES: NUCLEAR BINDING	REB	1R01 HD08441-01A1	57,257
STOBO, JOHN D.	STUDY OF ROLE OF MURINE THYMUS-DERIVED LYMPHOCYTES	IMB	5R01 AI12054-02	27,509
SUMMERSKILL, WILLIAM H.	STUDY OF DIGESTIVE AND HEPATOBILIARY FUNCTION	AMP	5P02 AM06908-13	172,149
SZURSEWSKI, JOSEPH H.	GASTRINS, NEUROTRANSMITTERS, AND ANTRAL SMOOTH MUSCLE	PHY	5R01 AM17238-02	34,068
SZURSEWSKI, JOSEPH H.	NEUROPHYSIOLOGICAL CONTROL OF GI MOTILITY	PHY	5R01 AM17632-02	27,580
TANCREDI, ROBERT G.	CAPILLARY PERMEABILITY IN THE LUNG	CVA	5R01 HL16623-02	56,041
TAYLOR, STUART R.	STIMULUS RESPONSE COUPLING IN CONTRACTILE CELLS	PHY	5R01 NS10327-04	27,269
THEYE, RICHARD A.	GAS EXCHANGE DURING ANESTHESIA AND SURGERY	SGYA	9R01 GM21729-16	73,952
THISTLE, JOHNSON L.	TREATMENT OF HUMAN GALLSTONES WITH BILE ACIDS	SSS	2R01 AM15887-04	85,256
TOFT, DAVID O.	BINDING OF CHEMICAL CARCINOGENS IN THE LUNG	PTHB	5R01 CA16031-02	34,861
TOMASI, THOMAS B, JR.	THE IGA GLOBULINS OF SERUM AND EXTERNAL SECRETIONS	ALY	5R01 AM17554-02	96,604
TOMASI, THOMAS B, JR.	STUDY OF SECRETORY OTITIS MEDIA	CMS	5R01 NS11612-02	18,448
TYCE, GERTRUDE M.	METABOLISM OF AROMATIC AMINES	PHRA	2R01 NS09143-04A2	45,379
TYCE, GERTRUDE M.	A STUDY OF DEMETHYLATION IN RED BLOOD CELLS	BIO	1R01 NS12367-01	43,152
VAN DYKE, RUSSELL A.	MECHANISMS OF ENZYMIC DECHLORINATION	TOX	2R01 ES00743-04	49,615
VAN DYKE, RUSSELL A.	METABOLISM OF VOLATILE ANESTHETICS	PHRA	2R01 GM17158-04	42,733
VENEZIALE, CARLO M.	STIMULATION OF GLUCONEOGENESIS BY GLUCAGON	END	5R01 AM16319-02	40,831
WEIDMAN, WILLIAM H.	NATURAL HISTORY OF CONGENITAL HEART DEFECTS—JOINT STUDY	TEC	5R01 HL09477-10	2,989
WEINSHILBOUM, RICHARD M.	ADRENERGIC-VASOREGULATORY INTERACTIONS IN HYPERTENSION	PHRA	1R01 HL17487-01	62,182
WILSON, DAVID M.	CADMIUM, RENIN-ANGIOTENSIN AND HYPERTENSION	GMB	3R01 HL14361-03S1	2,512
WOOD, EARL H.	COMPUTER-BASED ANALYSIS OF CARDIODYNAMICS	HEP	5P01 HL04664-15	526,421
WOOD, EARL H.	COMPUTER PROCESSING IN BIOMEDICAL SYSTEMS	COM	5P07 R000007-12	331,214
ORGANIZATION TOTAL	89	9,057,111		

## SAINT PAUL

### MACALESTER COLLEGE ZIP CODE 55105

DOOMES, EARL	POTENTIAL ANTICARCINOGENIC ALKYLATING AGENTS	MCHA	5R01 CA16220-02	12,150
WHITEHEAD, RUSSELL A.	MORPHOLOGY AND FUNCTION OF VISUAL SYSTEMS	VISB	2R01 EY00526-04	33,626
ORGANIZATION TOTAL	2	45,776		

### UNITED HOSPITALS ZIP CODE 55102

EDWARDS, JESSE E.	FUNCTIONAL PATHOLOGY OF CARDIOVASCULAR DISEASE	PTHA	5R01 HL05694-16	114,573
ORGANIZATION TOTAL	1	114,573		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MINNESOTA—Continued</b>				
<b>UNIVERSITY OF MINNESOTA</b>	<b>ZIP CODE 55455</b>			
ANDERSON, JOHN S.	ENZYMOLGY OF BACTERIAL CELL MEMBRANES	IMC	5R01 AI08295-07	39,350
BLOOMFIELD, VICTOR A.	INELASTIC LIGHT SCATTERING OF VIRUSES AND CELLS	BBCB	3R01 GM17855-05S1	6,222
BLUMENFELD, MARTIN	SATELLITE DNA & MOLECULAR ORGANIZATION OF CHROMOSOMES	GEN	1R01 GM22138-01	40,736
BRAMBL, ROBERT M.	FUNGAL SPORE GERMINATION AND MITOCHONDRIAL BIOGENESIS	CBY	5R01 GM19398-02	25,499
BROOKS, MARION A.	SYMBIOTES AS MODELS OF VECTOR PARASITISM	TMP	2R01 AI09914-05	50,724
BURKE, WILLIAM H.	PROLACTIN, PROGESTERONE AND BROODINESS	REB	5R01 HD07242-02	24,271
DAGLEY, STANLEY	THE ENZYMATIC DEGRADATION OF AROMATIC COMPOUNDS	IMC	5R01 ES00678-09	45,784
ENFIELD, FRANKLIN D.	INVESTIGATIONS IN QUANTITATIVE GENETICS	GEN	5R01 GM16074-07	44,104
EWING, SIDNEY A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05461-12	17,517
FAN, DAVID P.	CELL GROWTH AND DIVISION	IMC	5R01 GM19483-06	45,051
FLETCHER, THOMAS F.	DEVELOPMENTAL NERVOUS DISORDERS: KRABBE'S DISEASE	NEUA	5R01 NS06756-08	52,645
FUCHS, JAMES A.	DEOXYRIBONUCLEOTIDE METABOLISM IN ESCHERICHIA COLI	IMC	5R01 GM20884-02	38,776
GANDER, JOHN E.	FUNGAL GLYCOPOLYMER BIOSYNTHESIS	IMC	1R01 GM19978-01	20,382
GELATT, KIRK N.	PRIMARY GLAUCOMA	VISA	5R01 EY01465-02	38,100
GRAHAM, EDMUND F.	PRINCIPLES OF CRYOPRESERVATION	SGYA	5R01 GM20531-02	36,131
GRAHAM, EDMUND F.	FREEZE DRYING OF NUCLEATED MAMMALIAN CELLS	REB	5R01 HD07632-02	39,106
HENDERSON, LA VELL M.	HYDROXYLYSINE METABOLISM	PC	5R01 AM07984-13	40,305
HERMAN, WILLIAM S.	LEPIDOPTERAN REPRODUCTIVE NEUROENDOCRINOLOGY	TMP	5R01 HD07336-02	30,945
JOHNSON, DONALD W.	IMMUNOLOGIC CONTROL OF C-TYPE VIRUS ACTIVATION	VR	1R01 CA17232-01	42,931
LIENER, IRVIN E.	THE AVAILABILITY OF AMINO ACIDS OF LEGUMES	NTM	1R01 AM18324-01	31,652
LIENER, IRVIN E.	THE ROLE OF PROTEOLYSIS IN MALIGNANT GROWTH	PC	5R01 CA16231-02	22,799
LIENER, IRVIN E.	BIOCHEMICAL STUDIES ON THE PATHOGENESIS OF EMPHYSEMA	PC	5R01 HL14865-03	55,683
LOVRIEN, REX E.	RESTORATION OF FUNCTION OF DAMAGED CELLS AND ENZYMES	BBCA	5R01 GM18807-03	32,464
LOVRIEN, REX E.	QUANTITATIVE MEASUREMENT OF CELL INTERACTIONS	CBY	1R01 GM19791-01	26,135
NELSESTUEN, GARY L.	THE CARBOHYDRATE OF THE BLOOD-CLOTTING GLYCOPROTEINS	HEM	5R01 HL15728-03	35,208
RICHARDS, A GLENN	STRUCTURE & PERMEABILITY STUDIES ON MOSQUITOES & FLEAS	TMP	2R01 AI09559-06	37,200
ROSENBERG, MURRAY D.	MEMBRANE CHANGES DURING OOGENESIS AND FERTILIZATION	CBY	5R01 HD04702-05	62,862
SHERIDAN, JUDSON D.	CELL JUNCTION FORMATION & ROLE IN CELL PROLIFERATION	CBY	1R01 CA16335-01	74,851
SNUSTAD, D PETER	PHAGE T4-INFECTED E. COLI: HETEROCATALYTIC EXPRESSION	GEN	5R01 AI07946-09	45,533
WARNER, HUBER R.	NUCLEOTIDE METABOLISM AFTER PHAGE T5 INFECTION	IMC	1R01 GM21464-01	36,142
WARNER, HUBER R.	BIOCHEMISTRY OF VIRUS INFECTION IN BACTERIA	BIO	1R01 GM22215-01	9,668
WEBER, ALVIN F.	INTERNATIONAL MAMMALIAN HISTOLOGICAL NOMENCLATURE	BCM	3R13 LM00824-05S1	8,271
WEBER, ALVIN F.	PREPARATION OF MAMMALIAN HISTOLOGICAL NOMENCLATURE	BCM	5R13 LM00824-06	13,243
WOOD, JOHN M.	CHEMICAL STUDIES WITH FREE AND BOUND VITAMIN B12	BIO	7R01 AM18101-01	48,192
WOODWARD, CLARE K.	SOLVENT ACCESSIBILITY IN PROTEINS	BBCA	5R01 GM18466-05	41,423
ORGANIZATION TOTAL	35	1,259,905		
STATE TOTAL	346	27,938,257		

## MISSISSIPPI

### CLINTON

<b>MISSISSIPPI COLLEGE</b>	<b>ZIP CODE 39058</b>			
COX, PRENTISS G.	IN VIVO-IN VITRO STUDY OF MYOGENIC CELLS	CBY	3R01 GM17743-04S1	350
ORGANIZATION TOTAL	1	350		

### HATTIESBURG

<b>UNIVERSITY OF SOUTHERN MISSISSIPPI</b>	<b>ZIP CODE 39401</b>			
TOOM, PAUL M.	STUDY OF TOXIN FROM A JELLYFISH MODEL	TOX	5R01 ES00858-02	25,618
TOOM, PAUL M.	SYSTEMIC EFFECTS OF FRACTIONATED MAN-OF-WAR TOXIN	TOX	1R01 ES01088-01	45,920
ORGANIZATION TOTAL	2	71,538		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MISSISSIPPI—Continued</b>				
<b>HOLLY SPRINGS</b>				
<b>RUST COLLEGE</b>	<b>ZIP CODE 38635</b>			
RIHAN, TALAA I.....	THE BIOMEDICAL EFFECTS OF MERCURY AND INSECTICIDES.....	GRS	5S06 RR08000-04	49,543
ORGANIZATION TOTAL	1 49,543			
<b>JACKSON</b>				
<b>JACKSON STATE UNIVERSITY</b>	<b>ZIP CODE 39217</b>			
GARRITY, EVELYN M.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08047-04	127,473
ORGANIZATION TOTAL	1 127,473			
<b>UNIVERSITY OF MISSISSIPPI MEDICAL CENTER</b>	<b>ZIP CODE 39216</b>			
BERNOT, WILLIAM O.....	DRUG AND HORMONE EFFECTS ON TRANSPORT PROCESSES.....	PHRA	7R01 AM18124-01	26,538
BERNOT, WILLIAM O.....	DRUG AND HORMONE EFFECTS ON TRANSPORT PROCESSES.....	PHRA	5R01 AM18124-02	46,229
BLANCHARD, EDWARD B.....	BEHAVIORAL TACTICS FOR CLINICAL CARDIAC CONTROL.....	EXP	2R01 HL14906-03	54,900
BORONOW, RICHARD C.....	GROUP STUDY OF GYNECOLOGIC CANCER PATIENTS.....	CCI	2R10 CA13633-04	65,397
BYERS, BENJAMIN R.....	IRON: TRANSPORT AND REGULATORY FUNCTIONS.....	MCB	5R01 CA11886-05	39,885
CROWELL, JACK W.....	STUDY OF PHYSIOLOGY OF THE BODY UNDER ACUTE STRESS.....	CVB	5R01 HL16036-02	22,176
GATIPON, GLENN B.....	NEURAL MECHANISMS OF TEMPORAMANDIBULAR JOINT KINESTHESIA.....	NEUA	5R23 DE03746-03	8,203
GROGAN, JAMES B.....	ANTERIOR CHAMBER IMPLANTS AND TRANSPLANTATION IMMUNOLOGY.....	SGYA	2R01 AI09588-04	48,727
GUYTON, ARTHUR C.....	CARDIOVASCULAR DYNAMICS AND THEIR CONTROL.....	HEP	3P01 HL11678-07S2	2,286
GUYTON, ARTHUR C.....	CARDIOVASCULAR DYNAMICS AND THEIR CONTROL.....	HEP	5P01 HL11678-08	436,494
HARDY, JAMES D.....	STUDY OF SEVERE TRAUMA.....	SGYB	5P01 GM17961-05	118,898
HARDY, JAMES D.....	HEART TRANSPLANTATION.....	SGYB	5R01 HL06163-14	76,626
HARDY, JAMES D.....	LUNG TRANSPLANTATION.....	SGYB	3R01 HL11730-06S1	13,977
HARDY, JAMES D.....	LUNG TRANSPLANTATION.....	SGYB	2R01 HL11730-07	89,576
JACKSON, JOHN F.....	CYTOGENETICS OF HUMAN TUMORS.....	PTHB	5R01 CA13661-03	26,768
KLEIN, RICHARD L.....	ELECTRON MICROSCOPIC STUDIES IN PHARMACOLOGY.....	PHRA	5R01 GM15490-08	48,588
MC CAA, CONNIE S.....	MECHANISMS RELATED TO CONGESTIVE HEART FAILURE.....	GMB	5R01 HL09921-10	83,270
MORRISON, FRANCIS S.....	SOUTHWEST ONCOLOGY GROUP.....	CCI	1R10 CA16385-01	56,001
NELSON, NORMAN C.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00626-03	74,539
NELSON, NORMAN C.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05386-14	163,029
PULLEN, D JEANETTE.....	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP.....	CCI	1R10 CA15989-01	44,832
RANDALL, CHARLES C.....	BIOCHEMISTRY OF FOWLPOX REPLICATION AND HYPERPLASIA.....	VR	5R01 AI02031-17	48,580
RANDALL, CHARLES C.....	NUCLEIC ACIDS OF CELLS INFECTED WITH HERPES VIRUS.....	VR	5R01 AI02032-18	50,264
SMITH, ROBERT R.....	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE.....	SSS	1R01 NS12499-01	26,634
TAYLOR, AUBREY E.....	TRANSPORT ACROSS ALVEOLAR CAPILLARY MEMBRANE.....	CVB	5R01 HL11477-08	26,175
TAYLOR, AUBREY E.....	INTESTINAL SECRETION-CAPILLARY AND TISSUE FORCES.....	PHY	5R01 HL15680-03	28,169
WHITE, HAROLD B, JR.....	LIPID BIOSYNTHESIS INDUCED BY POX-VIRUS INFECTION.....	VR	5R01 AI09447-06	39,912
ORGANIZATION TOTAL	27 1,766,673			
<b>LORMAN</b>				
<b>ALCORN STATE UNIVERSITY</b>	<b>ZIP CODE 39096</b>			
PARKER, HENRY L.....	ROLE OF ANTICOAGULANTS IN IMMUNOCHEMISTRY OF CELLULASE.....	GRS	5S06 RR08095-03	61,114
ORGANIZATION TOTAL	1 61,114			
<b>MISSISSIPPI STATE</b>				
<b>MISSISSIPPI STATE UNIVERSITY</b>	<b>ZIP CODE 39762</b>			
GLICK, BRUCE.....	IMMUNOGLOBULINS OF BURSECTOMIZED CHICKENS.....	ALY	5R01 AI11894-02	35,530
MILES, D HOWARD.....	TUMOR INHIBITORS FROM SARRACENIA AND ELEPHANTOPUS.....	MCHB	3R01 CA13268-03S1	14,267
NORMENT, BEVERLY R.....	DETERMINATION OF NECROTIC ENZYMES OF BROWN SPIDER VENOM.....	TOX	1R01 ES00651-01A1	17,304
YARBROUGH, JAMES D.....	CHRONIC EFFECTS OF INSECTICIDES ON MAMMALIAN BEHAVIOR.....	TOX	1R01 ES00817-01	37,714
YARBROUGH, JAMES D.....	CELLULAR STUDIES OF VERTEBRATE INSECTICIDE RESISTANCE.....	TOX	5R01 ES00840-02	42,110
ORGANIZATION TOTAL	5 146,925			

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MISSISSIPPI—Continued</b>				
<b>TOUGALOO</b>				
TOUGALOO COLLEGE	ZIP CODE 39174			
ASOKASRINIVASAN, G S	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	GRS	5S06 RR08110-03	50,564
ORGANIZATION TOTAL	1			50,564
<b>UNIVERSITY</b>				
UNIVERSITY OF MISSISSIPPI	ZIP CODE 38677			
BORNE, RONALD F	2-AZABICYCLO(2.2.2)OCTANE ANALOGS AS RECEPTOR MODELS	MCHB	2R01 NS09188-04A1	26,655
GUESS, WALLACE L	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05594-08	41,058
HUFFORD, CHARLES D	ANTITUMOR AGENTS FROM WEST AFRICAN PLANTS	MCHB	3R01 CA15590-01S1	2,500
HUFFORD, CHARLES D	ANTITUMOR AGENTS FROM WEST AFRICAN PLANTS	MCHB	5R01 CA15590-02	19,247
ORGANIZATION TOTAL	4			89,460
STATE TOTAL	43			2,363,640
<b>MISSOURI</b>				
<b>COLUMBIA</b>				
CANCER RESEARCH CENTER	ZIP CODE 65201			
HUESER, JAMES N	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	5R10 CA06800-13	104,824
SPRATT, JOHN S, JR	CANCER CLINICAL CENTER GRANT	CAP	3P02 CA08023-10S1	361,121
SPRATT, JOHN S, JR	PROFILES OF SURGICAL FAILURES FOR CLINICAL TRIAL PLANS	SRC	1R26 CA17479-01	56,001
SPRATT, JOHN S, JR	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05618-09	64,330
YOURTEE, DAVID M	AFLATOXIN METABOLISM BY HUMAN LIVER	TOX	3R01 ES00640-01A1S1	17,513
ORGANIZATION TOTAL	5			603,789
UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT COLUMBIA	ZIP CODE 65201			
ADDINGER, HANS K	CELL-MEDIATED IMMUNITY IN MAREK'S DISEASE	IMB	1R01 CA16350-01	59,750
AGRIS, PAUL F	HUMAN BIOCHEMICAL GENETICS: TRANSFER RNA IN LEUKEMIA	PC	5R01 CA16327-02	44,127
ANAST, CONSTANTINE S	CALCITONIN AND PARATHYROID HORMONE IN CHILDREN	END	5R01 HD02756-09	52,554
ANDERSON, RALPH R	RELAXIN ON MAMMARY GLAND GROWTH IN RODENTS	END	1R01 HD08798-01	13,681
ASPLUND, JOHN M	METABOLIC STUDIES IN PARENTERALLY FED MODELS	NTN	5R01 AM16560-02	19,043
BARRETT, JAMES T	DETECTION OF BACTEROIDES ANTIGENS IN INFECTED TISSUES	BM	1R01 AI12530-01	48,114
BARRETT, JAMES T	IMMUNOBIOCHEMISTRY OF LOXOSCELES RECLUSA VENOM	TMP	2R01 ES00598-04	35,636
BRUBAKER, LEONARD H	LEUKOCYTE TURNOVER IN ACUTE LEUKEMIA AND LEUKOPENIAS	HEM	5R01 CA11929-05	46,359
BURNS, THOMAS W	HUMAN ADIPOSE TISSUE: REGULATION OF FAT MOBILIZATION	MET	2R01 AM11265-07	65,561
CAMPBELL, BENEDICT J	METAL MEDIATION OF PITUITARY HORMONAL REGULATION	GMB	5R01 AM04660-13	21,184
CAMPBELL, BENEDICT J	CHARACTERIZATION OF KIDNEY PEPTIDASES	PC	5R01 AM08511-12	26,072
CAMPBELL, REX R	MIGRATION OF NEGROES TO THE SOUTH	POP	5R01 HD05852-04	76,564
CHAPMAN, LINDA F	REGULATORY MECHANISMS IN ISOLEUCINE-VALINE SYNTHESIS	PC	5R01 GM20330-06	21,257
DAVIS, JAMES O	HUMORAL FACTORS IN HEART FAILURE AND HYPERTENSION	CVB	5R01 HL10612-09	174,641
FORTE, LEONARD R	MOLECULAR PHARMACOLOGY OF RENAL PLASMA MEMBRANES	GMB	5R01 AM14787-05	37,826
FOSSLIEN, EGIL	AUTOMATED SYSTEM FOR HEMOGLOBIN ELECTROPHORESIS	MCHB	5R01 HL16017-02	31,951
GOLDBERG, HERBERT S	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05387-14	163,106
GRIGGS, DOUGLAS M, JR	CORONARY RESISTANCE AND CARDIAC METABOLISM	CVB	5R01 HL11876-08	62,813
HARRIS, PATRICK D	SMALL VESSEL MECHANISMS DURING HEMORRHAGIC SHOCK	CVB	5R01 HL13207-05	54,585
HEIMBERG, MURRAY	REGULATORY MECHANISMS IN LIPID METABOLISM	MET	1R01 AM18125-01	136,356
HEIMBERG, MURRAY	HEPATOTOXICITY OF TETRACYCLINES AND OTHER DRUGS	MET	7R01 AM18126-01	14,618
HENRY, PATRICK H	COOPERATIVE STUDY OF ACUTE LEUKEMIA	CCI	2R10 CA12046-05	71,023
HOOK, REUEL R, JR	IMMUNOLOGIC IMPAIRMENT IN PROTEIN-CALORIE DISEASE	IMB	5R01 HD07548-02	27,498
JACKSON, ROBERT L	VASCULAR CHANGES IN DIABETES MELLITUS	PTHA	5R01 HL13632-05	43,219
JOHNSON, JOSEPH A	MECHANISMS IN THE PRODUCTION OF RENAL HYPERTENSION	CVB	1R01 HL17366-01	15,283
JONES, ALLAN W	VASCULAR ION TRANSPORT AND HYPERTENSIVE MECHANISMS	PHY	5R01 HL15852-02	34,639
KAISER, EDWIN M	NOVEL CARBANIONS OF METHYLATED HETEROAROMATICS	MCHA	1R01 GM21500-01	31,657

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MISSOURI—Continued</b>				
KOIRTYOHANN, S R.....	BIOLOGICAL TRACE METAL ATOMIC EMISSION SPECTROMETER.....	MCHB	3R01 GM20795-01S1	855
LODWICK, GWILYM S.....	COMPUTER ANALYSIS OF TUMOR ROENTGENOGRAMS.....	RAD	5R01 CA06263-14	144,798
LODWICK, GWILYM S.....	DIAGNOSTIC CONTENT AND REDUNDANCY IN RADIANT IMAGES.....	RAD	5P01 GM17729-05	200,831
MACQUARRIE, RONALD A.....	STUDIES OF ALPHA-GLYCEROL PHOSPHATE DEHYDROGENASE.....	BIO	1R01 GM21938-01	36,684
MAYER, WILLIAM D.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00287-09	438,772
MENGEL, CHARLES E.....	STUDY OF HEMOSTASIS.....	HEM	5R01 HL07181-13	18,995
MEYER, DALLAS K.....	MYOCARDIAL CIRCADIAN METABOLIC RHYTHMS.....	CVB	5R01 HL16041-02	36,249
MILES, CHARLES D.....	PHOTOSYNTHESIS INHIBITION BY ENVIRONMENTAL TRACE METALS.....	BIO	5R01 ES00973-02	15,918
MULLEN, HELEN B.....	CELLULAR MECHANISMS REGULATING ANTIBODY PRODUCTION.....	IMB	1R01 AI12830-01	25,695
MUSACCHIA, X J.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07053-10	32,405
O'DELL, BOYD L.....	TRACE ELEMENTS IN NUTRITION.....	NTN	5R01 HL11614-08	61,319
ORTWERTH, BERYL J.....	ROLE OF TRNA IN THE CONTROL OF LENS PROTEIN SYNTHESIS.....	PC	2R01 EY00786-04	51,897
ORTWERTH, BERYL J.....	THE ROLE OF TRANSFER RNA IN THE CONTROL OF CELL DIVISION.....	MBY	5R01 GM20111-03	31,075
SCHUDER, JOHN C.....	MINIMALLY INVASIVE STIMULATION WITH IMPLANTED DIODE.....	SGYA	5R01 HL15439-03	42,995
SCHUDER, JOHN C.....	WAVEFORM DEPENDENCY IN DEFIBRILLATING 100 KG CALVES.....	SGYA	1R01 HL18040-01	51,067
SHERMAN, LOUIS A.....	ANALYSIS OF FLUORESCENCE MUTATIONS IN PHOTOSYNTHESIS.....	SSS	1R01 GM21827-01	34,457
SUN, ALBERT Y.....	AGING AND MEMBRANE FUNCTION IN THE BRAIN.....	NEUB	1R01 NS12752-01	39,746
THURSTON, RONALD J.....	MIGRATION OF PMN LEUKOCYTES INTO PULMONARY AIRWAYS.....	YIP	1R23 HL18358-01	39,101
VORBECK, MARIE L.....	MEMBRANE LIPIDS BIOSYNTHESIS AND FUNCTION.....	PC	5R01 HL12381-07	21,370
WAGNER, JOSEPH E.....	RESEARCH ANIMAL DIAGNOSTIC LABORATORY.....	AR	5P06 RR00471-07	92,765
WANG, RICHARD J.....	MITOSIS AND MITOTIC ARREST IN MAMMALIAN CELLS.....	GEN	3R01 GM21305-01S1	3,813
WEIDE, KENNETH D.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05602-09	32,409
WILSON, ROBERT B.....	DIETARY ANTIOXIDANTS AND ATHEROSCLEROSIS.....	NTN	5R01 HL16707-02	30,992
WIXOM, ROBERT L.....	HISTIDINE BIOSYNTHESIS IN ANIMAL DEVELOPMENT.....	NTN	2R01 AM12708-06	54,585
WOOD, RANDALL.....	METABOLIC AND STRUCTURAL STUDIES OF TUMOR LIPIDS.....	PC	5R01 CA12973-04	56,210
WOSILAIT, WALTER D.....	FACTORS AFFECTING THE ACTION OF ANTICOAGULANTS.....	PHRA	5R01 HL15698-09	29,948
ZATZMAN, MARVIN L.....	CARDIOVASCULAR AND RENAL FUNCTIONS OF MARMOTS.....	PHY	1R01 HL17847-01	41,481
ORGANIZATION TOTAL	54	3,095,549		
<b>JEFFERSON CITY</b>				
LINCOLN UNIVERSITY	ZIP CODE 65101			
MILLER, HERMAN T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08041-04	82,313
ORGANIZATION TOTAL	1	82,313		
<b>KANSAS CITY</b>				
KANSAS CITY COLLEGE OF OSTEOPATHIC MEDICINE	ZIP CODE 64124			
HALL, L RAYMOND.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17933-01	45,792
ORGANIZATION TOTAL	1	45,792		
MIDWEST RESEARCH INSTITUTE	ZIP CODE 64110			
COOK, MARY R.....	EFFECTS OF BIOFEEDBACK AND HYPNOSIS ON CANCER PAIN.....	CCG	1R18 CA17936-01	134,107
CORBETT, MICHAEL D.....	THIAMINE MEDIATED FORMATIVE OF HYDROXAMIC ACIDS.....	MCHB	7R01 CA18025-01	34,828
ORGANIZATION TOTAL	2	168,935		
ST. LUKE'S HOSPITAL	ZIP CODE 64111			
GOETZ, KENNETH L.....	ATRIAL RECEPTORS.....	CVB	5R01 HL13623-06	40,637
ORGANIZATION TOTAL	1	40,637		
UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT KANSAS CITY	ZIP CODE 64110			
BURDICK, HAROLD C.....	IMPLEMENTATION OF LABORATORY ANIMAL FACILITY.....	AR	3P06 RR00693-03S1	7,090
BURICH, RAYMOND L.....	EFFECTS OF ALKALOSIS ON RENAL METABOLISM.....	GMA	5R01 AM16103-03	6,980
COHN, DAVID V.....	METABOLIC PATHWAYS IN BONE.....	MET	5R01 DE01523-14	56,490
DIAS, JERRY R.....	SYNTHESIS OF ANTILEUKEMIC ANALOGS OF QUASSIN.....	MCHA	5R01 CA15824-02	40,333
LUBEN, RICHARD A.....	CHARACTERIZATION OF OSTEOCLAST ACTIVATING FACTORS.....	GMB	1R23 DE04211-01	11,619
ROBINSON, HAMILTON B G.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05323-14	14,528
SUN, GRACE Y.....	FATTY ACID METABOLISM IN BRAIN SUBCELLULAR MEMBRANES.....	NEUA	7R01 NS12118-01	21,864
ORGANIZATION TOTAL	7	158,904		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MISSOURI—Continued</b>				
<b>NORMANDY</b>				
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT ST. LOUIS      ZIP CODE 63121</b>				
BERNOT, ALAN F.....	THERMODYNAMIC PROPERTIES OF FLUORAPATITE.....	DEN	1R01 DE04038-01	13,721
HEBERLEIN, GARY T.....	GENETICS AND BIOCHEMISTRY OF TUMOR INDUCTION.....	GEN	2R01 CA14516-03	64,374
ORGANIZATION TOTAL	2      78,095			
<b>SAINT LOUIS</b>				
<b>CENTRAL INSTITUTE FOR THE DEAF      ZIP CODE 63110</b>				
HIRSH, IRA J.....	AUDITORY COMMUNICATION AND ITS DISORDERS.....	CDR	2P01 NS03856-13	667,252
ORGANIZATION TOTAL	1      667,252			
<b>DEACONESS HOSPITAL      ZIP CODE 63139</b>				
STERN, JOHN A.....	HYPNO-AND ACUPUNCTURE ANALGESIA-PHYSIOLOGICAL STUDY.....	SSS	7R01 GM22800-01	34,856
ORGANIZATION TOTAL	1      34,856			
<b>JEWISH HOSPITAL OF ST. LOUIS      ZIP CODE 63178</b>				
AVIOLI, LOUIS V.....	BONE METABOLISM IN CHRONIC DISORDERS.....	GMB	5R01 AM11674-09	81,177
BAUE, ARTHUR E.....	SURGICAL ASPECTS OF SHOCK AND HYPOXIA.....	SGYB	5R01 HL12278-07	91,521
BAUE, ARTHUR E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05491-13	66,764
BIRGE, STANLEY J.....	MECHANISMS OF CALCIUM TRANSPORT.....	GMB	5R01 AM14571-05	33,189
GEHA, ALEXANDER S.....	SURGICAL ASPECTS OF MYOCARDIAL HYPERTROPHY.....	SGYA	5R01 HL13088-06	60,989
GRAFF, RALPH J.....	IMMUNITY AND TOLERANCE TO TRANSPLANTATION ANTIGENS.....	IMB	5R01 AI07437-09	45,569
HADDAD, JOHN G, JR.....	QUANTITATIVE STUDIES OF VITAMIN D METABOLISM.....	GMB	5R01 AM14570-05	29,968
HANN, THEODORE J.....	ANTICONSULSANT, PSYCHOACTIVE DRUG-INDUCED OSTEOMALACIA.....	GMB	2R01 NS10262-04	31,343
LIEBHABER, HARVEY.....	STUDY OF ETIOLOGY OF VIRAL HEPATITIS.....	VR	5R01 AI11265-03	52,682
LUBOWITZ, HERBERT.....	TRANSPORT AND METABOLISM IN RED BLOOD CELLS.....	CVB	1R01 HL17778-01	38,596
PRESANT, CARY A.....	STRUCTURE OF HUMAN PLASMA MEMBRANE GLYCOPROTEINS.....	PC	5R01 CA15621-02	25,604
ROSENBLUM, DANIEL.....	HUMAN NEUTROPHIL GRANULES: STRUCTURE AND FUNCTION.....	HEM	1R01 CA16393-01A1	35,008
ORGANIZATION TOTAL	12      592,410			
<b>ST. LOUIS CITY HEALTH AND HOSPITALS DEPARTMENT      ZIP CODE 63104</b>				
NICHOLAS, HAROLD J.....	LIPIDS OF THE CENTRAL NERVOUS SYSTEM.....	MET	3R01 NS06011-09S1	17,716
ORGANIZATION TOTAL	1      17,716			
<b>ST. LOUIS UNIVERSITY      ZIP CODE 63103</b>				
BROUN, GORONWY O, JR.....	ANEMIA OF VITAMIN E DEFICIENCY.....	NTN	5R01 AM17428-02	57,427
BROUN, GORONWY O, JR.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	1R10 CA17214-01	30,095
CADDELL, JOAN L.....	THE MAGNESIUM STATUS OF POOR URBAN MOTHERS AND BABIES.....	HED	5R01 HD07900-02	40,404
COCKRELL, RONALD S.....	ION TRANSPORT AND METABOLIC REGULATION IN NEOPLASMS.....	BIO	5R01 CA11766-05	51,359
COSCIA, CARMINE J.....	FEEDBACK INHIBITION OF INDOLE ALKALOID BIOSYNTHESIS.....	BIO	5R01 GM19786-03	26,817
COSCIA, CARMINE J.....	ABERRANT L-DOPA METABOLISM.....	PHRA	1R01 NS12342-01	50,580
ELICEIRI, GEORGE L.....	RIBOSOMES OF HYBRID CELLS AND TUMOR VIRUS EFFECTS.....	VR	5R01 GM19835-03	57,897
ELLIOTT, WILLIAM H.....	METABOLISM OF NEUTRAL STEROLS.....	MET	5R01 HL07878-13	91,384
FELIX, ROBERT H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05388-14	169,075
FITCH, COY D.....	A RECEPTOR SITE RELATED TO DRUG RESISTANCE IN MALARIA.....	TMP	3R01 AI09973-03S1	257
FITCH, COY D.....	METABOLIC ADAPTATION OF MUSCLE: THE NEED FOR CREATINE.....	MET	5R01 AM16623-02	37,419
GOLD, ALVIN H.....	GLYCOCEN SYNTHETASE IN DEVELOPING LIVER.....	MET	1R01 HD07788-01A2	43,070
GRANDGENETT, DUANE P.....	STUDY OF AVIAN DNA POLYMERASE-RNASE H ENZYMES.....	BIO	3R01 CA16312-01S1	1,620
GRANDGENETT, DUANE P.....	STUDY OF AVIAN DNA POLYMERASE-RNASE H ENZYMES.....	BIO	5R01 CA16312-02	31,224
GREEN, MAURICE.....	BIOCHEMISTRY OF ANIMAL VIRUS MULTIPLICATION.....	VR	5R01 AI01725-18	124,203
GREGORY, JOHN G.....	OXALATE STONE DISEASE AFTER SMALL BOWEL BYPASS.....	SGYA	1R01 AM18589-01	65,369
GURGO, CORRADO.....	MECHANISM OF AMV REVERSE TRANSCRIPTASE INHIBITORS.....	VR	5R01 CA16266-02	34,320
HIRSCHBERG, CARLOS B.....	GLYCOLIPIDS: ROLE IN NORMAL AND TRANSFORMED CELLS.....	MBY	1R01 CA17015-01	41,011
KAMINSKI, DONALD L.....	BIOASSAY OF HEPATIC HORMONAL RECEPTOR SITES.....	SGYB	5R01 AM17084-02	43,738
KAMINSKI, DONALD L.....	CELL-MEMBRANE MECHANISMS CONTROLLING BILE FLOW.....	GMA	1R01 AM18779-01	44,725
LONGMORE, WILLIAM J.....	REGULATION OF LIPID METABOLISM IN THE LUNG.....	MET	5R01 HL13405-05	35,814
LOZERON, HOMER A.....	TRANSCRIPTIONAL CONTROLS IN PROVIRAL AND VIRAL SYSTEMS.....	VR	5R01 GM20639-03	34,997

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MISSOURI—Continued</b>				
MARRS, BARRY L.....	THE REGULATION OF BACTERIAL MEMBRANE FORMATION.....	MBG	5R01 GM20173-03	35,821
MARTONOSI, ANTHONY N.....	STUDIES ON SARCOPLASMIC RETICULUM AND MYOSIN.....	MBY	9R01 AM18117-08	110,312
MC GEE, JAMES F.....	DESIGN OF A HIGH-RESOLUTION X-RAY REFLECTION MICROSCOPE.....	MBY	5R01 GM15038-09	15,407
MUNNS, THEODORE W.....	CHARACTERIZATION OF tRNA IN ONCOGENIC SYSTEMS.....	PC	1R01 CA17715-01	49,527
NADEL, ELI M.....	EXPLORATORY STUDY FOR A ST LOUIS CANCER CENTER.....	SRC	1P01 CA17664-01A1	172,672
OLSON, ROBERT E.....	MODE OF ACTION OF THE FAT-SOLUBLE VITAMINS.....	AMP	5R01 AM09992-10	84,450
OLSON, ROBERT E.....	BIOSYNTHESIS OF UBIQUINONE (COENZYME Q).....	PC	3R01 AM10004-10S1	1,525
OLSON, ROBERT E.....	BIOSYNTHESIS OF UBIQUINONE (COENZYME Q).....	PC	5R01 AM10004-11	46,983
OLSON, ROBERT E.....	ETIOLOGY OF NUTRITIONAL ANEMIAS IN THAILAND.....	NTN	2R22 AM11044-09	308,666
OLSON, ROBERT E.....	REGULATION OF PROTHROMBIN SYNTHESIS IN CULTURED CELLS.....	HEM	5R01 HL15619-03	30,373
PADMANABHAN, RADHAKRISHNAN.....	DNA SEQUENCE ANALYSIS ON HUMAN ADENOVIRUS GENOMES.....	PC	1R01 CA17006-01	32,857
POGELL, BURTON M.....	CONTROL AND REGULATION OF CARBOHYDRATE BIOSYNTHESIS.....	PC	5R01 CA12080-05	66,258
RUH, MARY F.....	ECDYSONE AND JUVENILE HORMONE ACTION.....	END	1R01 HD08186-01A1	38,599
SCHOENBERG, HARRY W.....	METHODS OF MANAGING THE NEUROGENIC BLADDER.....	SGYA	5R01 AM16312-02	44,169
SCHULZE, IRENE T.....	STRUCTURE OF MYXOVIRUSES AND ONCORNAVIRUSES.....	VR	5R01 AI10097-05	56,770
SEARCEY, MARYLEE T.....	COUMARIN-VITAMIN K BINDING AND PROTHROMBIN SYNTHESIS.....	HEM	1R01 HL17469-01	46,382
WILLMAN, VALLEE L.....	STUDIES IN SURGICAL CARDIOLOGY.....	HEP	5P01 HL06312-14	371,614
ORGANIZATION TOTAL	39	2,625,190		
<b>UNIVERSITY CITY</b>				
<b>WASHINGTON UNIVERSITY</b>	<b>ZIP CODE 63130</b>			
ALLEN, ROBERT H.....	THE STRUCTURE AND FUNCTION OF B12 BINDING PROTEINS.....	HEM	5R01 AM16668-03	48,750
ALPERS, DAVID H.....	INTESTINAL PROTEIN METABOLISM AND FUNCTION.....	GMA	5R01 AM14038-06	81,658
APIRION, DAVID.....	THE FATE OF RNA IN MALIGNANT AND NORMAL CELLS.....	PC	5R01 CA15389-02	71,941
APIRION, DAVID.....	GENETICS OF RIBONUCLEASES AND RNA DEGRADATION.....	GEN	5R01 GM19821-02	47,306
ARTHUR, R MARTIN.....	PREPROCESSOR SYSTEM FOR CARDIOGRAMS.....	COM	1R01 HL18144-01	44,794
BALLINGER, WALTER F.....	STUDIES IN GASTROINTESTINAL PHYSIOLOGY.....	SGYB	5R01 AM12333-09	79,467
BALLINGER, WALTER F.....	SURGICAL TRANSPLANTATION OF ISLETS OF LANGERHANS.....	SGYB	5R01 AM17188-02	69,065
BALLINGER, WALTER F.....	ISLET TRANSPLANTATION IN THE TREATMENT OF DIABETES.....	SSS	1P01 AM18235-01	145,518
BANASZAK, LEONARD J.....	STRUCTURAL STUDIES ON DEHYDROGENASES AND LIPOPROTEINS.....	BBCB	2R01 GM13925-10	85,193
BECKER, BERNARD.....	TRANSPORT PROCESSES AND THE EYE.....	VISA	2R01 EY00004-21	124,887
BECKER, BERNARD.....	GLAUCOMA CLINICAL RESEARCH CENTER.....	VSN	5P01 EY00336-09	414,924
BELL, C ELLIOTT, JR.....	ANTIGENS AND IMMUNITY IN HUMAN BRONCHOGENIC CARCINOMA.....	PTHA	5R01 CA15556-02	46,954
BLAUSTEIN, MORDECAI P.....	THE PHYSIOLOGY OF PRESYNAPTIC NERVE TERMINALS.....	PHY	2R01 NS08442-07	76,866
BOHNE, BARBARA A.....	RESPONSE OF INNER EAR TO INJURY.....	CMS	5R01 NS01791-17	59,532
BOIME, IRVING.....	ISOLATION OF PROINSULIN MRNA.....	PC	5R01 AM16865-03	30,020
BRADSHAW, RALPH A.....	STUDIES ON STRUCTURE AND FUNCTION OF DEHYDROGENASES.....	BBCA	5R01 AM13362-07	45,503
BRADSHAW, RALPH A.....	STRUCTURE AND FUNCTION OF NERVE GROWTH FACTOR.....	NEUB	2R01 NS10229-04	55,802
BROWN, DAVID H.....	ENZYMATIC STUDY OF MAMMALIAN GLYCOGEN METABOLISM.....	MET	5R01 GM04761-19	85,449
BROWN, ELMER B.....	STUDY OF METABOLISM OF IRON IN MAMMALS.....	HEM	5R01 AM16577-03	72,735
BUNGE, RICHARD P.....	CYTOLOGICAL STUDIES OF DEVELOPING AND MATURE NEURONS.....	NEUB	5R01 NS09923-05	57,994
BUNGE, RICHARD P.....	FUNCTIONAL STUDIES OF SYNAPSES IN TISSUE CULTURE.....	NEUB	1R01 NS11888-01	56,453
BURTON, HAROLD.....	TEMPERATURE AND PAIN IN THE CENTRAL NERVOUS SYSTEM.....	NEUB	5R01 NS09809-05	37,730
CHAPLIN, HUGH, JR.....	SYMPTOMATIC HEMOLYTIC ANEMIA IN MALIGNANT DISEASES.....	HEM	5R01 CA02918-19	57,490
CHASE, LEWIS R.....	PARATHYROID HORMONE AND 3'5'-AMP IN CALCIUM METABOLISM.....	GMB	5R01 AM16926-03	53,073
CHILSON, OSCAR P.....	PURINE METABOLISM: ERYTHROCYTES OF DEVELOPING CHICKS.....	BIO	5R01 AM16741-02	35,241
CLARK, RICHARD E.....	ADVANCED CARDIAC VALVULAR AND VASCULAR PROSTHESES.....	SGYB	2R01 HL13803-05	207,669
COHEN, ADOLPH I.....	CYTOLOGY AND PHYSIOLOGY OF THE RETINA.....	VISB	2R01 EY00258-12	71,986
COMMONER, BARRY.....	MECHANISMS OF CHEMICAL CARCINOGENESIS.....	SSS	2R01 CA03983-17	158,458
COWAN, W MAXWELL.....	STUDIES OF NEURONAL SPECIFICITY IN THE HIPPOCAMPUS.....	NEUA	5R01 NS10943-03	61,865
COX, JEROME R, JR.....	A RESOURCE FOR BIOMEDICAL COMPUTING.....	COM	5P07 RR00396-08	1,259,100
DAUGHADAY, WILLIAM H.....	HORMONAL CONTROL OF CHONDROITIN SULFATE SYNTHESIS.....	END	5R01 AM01526-19	61,820
DAUGHADAY, WILLIAM H.....	THE MEASUREMENT OF PROTEIN HORMONES IN PLASMA.....	SSS	5R01 AM05105-14	98,951
DAUGHADAY, WILLIAM H.....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	SSS	5R01 AM06737-13	39,764
DAUGHADAY, WILLIAM H.....	DIABETES AND ENDOCRINOLOGY CENTER.....	SSS	1P17 AM17904-01A1	729,461
DAUTEN, CARL A.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07054-10	63,017
DAVIE, JOSEPH M.....	ROLE OF T CELLS IN B CELL DIFFERENTIATION.....	IMB	5R01 AI1635-02	57,797
DAW, NIGEL W.....	NEURAL MECHANISMS OF VISION.....	SSS	5R01 EY00053-06	42,215

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MISSOURI—Continued</b>				
DE WEER, PAUL J.	MODES OF OPERATION OF THE SODIUM PUMP	PHY	5R01 NS11223-03	44,061
DEVIVO, DARRYL C.	SEIZURES, KETOSIS, AND CEREBRAL METABOLISM	NEUB	5R01 NS09808-03	55,218
EISEN, ARTHUR Z.	ROLE OF COLLAGENASES IN COLLAGEN REMODELING	GMA	5R01 AM12129-08	135,466
ENDERS, ALLEN C.	MECHANISMS OF IMPLANTATION OF THE BLASTOCYST	HED	5R01 HD04962-05	52,537
ENDERS, ALLEN C.	CYTOLOGY OF PLACENTAL FUNCTION	HED	2R01 HD06415-04	30,885
FEIGIN, RALPH D.	STUDY OF NBI DYE TEST IN SELECTED CHILDHOOD DISORDERS	PTHA	5R01 HD06894-03	23,997
FEIGIN, RALPH D.	PROSPECTIVE EVALUATION OF CHILDHOOD MENINGITIS	BM	5R01 NS12284-01	56,964
FERRENDELLI, JAMES A.	REGIONAL CNS CYCLIC NUCLEOTIDE BIOCHEMISTRY	PHRA	2R01 NS09667-04A1	21,368
FLEISCHMAN, JULIAN B.	BIOSYNTHESIS OF IMMUNOGLOBULIN POLYPEPTIDE CHAINS	ALY	5R01 AI10810-09	39,485
FRIEDEN, CARL	METABOLIC REGULATION AND INTERACTING ENZYME SYSTEMS	PC	5R01 AM13332-07	73,568
GARDNER, RICHARD A.	FLUID SHEAR OR MAGNETIC ALIGNMENT OF BLOOD COMPONENTS	SGYB	1R01 HL18321-01	37,193
GELLER, DAVID M.	MECHANISM AND CONTROL OF SERUM ALBUMIN BIOSYNTHESIS	PC	5R01 AM16226-02	30,315
GLASER, LUIS	REGULATION AND MECHANISM OF CELL SURFACE SYNTHESIS	PC	3R01 GM18405-04S1	11,047
GOLDRING, SIDNEY	COORDINATED BASIC AND CLINICAL BRAIN RESEARCH PROGRAM	NSPB	2P01 NS04513-12	217,521
GOLDRING, SIDNEY	BIOELECTRIC STUDIES OF CEREBRAL CORTEX	NEUB	5R01 NS06947-09	43,033
GREIDER, MARIE H.	CELLULAR LOCALIZATION OF GASTRIN	GMA	2R01 AM13205-08	74,050
GUZE, SAMUEL B.	CANCER CENTER SUPPORT GRANT	CAK	1P01 CA16217-01	588,464
HAHN, BEVRA H.	SLE AND DRUG INDUCED LE: PATHOGENESIS AND THERAPY	IMB	5R01 AM17469-02	69,363
HAMBURGER, VIKTOR	PROBLEMS OF NEUROGENESIS AND OF DEVELOPMENT OF BEHAVIOR	CBY	5R01 NS05721-11	42,685
HARTMAN, BOYD K.	NORADRENERGIC SYSTEM IN BRAIN: ANATOMY AND FUNCTION	NEUA	1R01 NS12311-01	67,281
HARTROFT, PHYLLIS M.	ENVIRONMENTAL QUALITY: EFFECTS ON DISEASE PROCESSES	SSS	2P01 ES00734-04	277,032
HENRY, PHILIP D.	THE CONTRACTILE APPARATUS IN CARDIAC HYPERTROPHY	CVA	5R01 HL16853-02	39,357
HILL, GEORGE J., II	COOPERATIVE STUDY OF ONCOLOGY	CCI	5R10 CA15241-03	49,635
HILL, GEORGE J., II	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17955-01	85,487
HILLMAN, RICHARD E.	MEMBRANE TRANSPORT OF AMINO ACIDS	MET	2R01 AM15531-04	47,743
HOLLOSZY, JOHN O.	EXERCISE-INDUCED BIOCHEMICAL AND ANATOMIC ADAPTATIONS	CVB	5R01 HD01613-11	86,278
HOLMES, WILLIAM F.	A RESOURCE FOR BIOMEDICAL MASS SPECTROMETRY	SSS	1P07 RR00954-01	320,374
HOLTZER, ALFRED M.	PROPERTIES OF SUBSTANCES FORMING ALPHA-HELICES	BBCA	5R01 GM20064-03	38,823
HUNT, CARLTON C.	STUDY OF VERTEBRATE MUSCLE RECEPTORS	NEUB	5R01 NS07907-08	91,249
HUNTER, F EDMUND, JR	GLUTATHIONE ORGANIC NITRATE ESTER REDUCTASE	BIO	3R01 HL10107-08S1	2,197
JACKSON, CRAIG M.	LIPID PROTEIN INTERACTIONS IN BLOOD-CLOTTING	HEM	5R01 HL12820-06	44,690
JARETT, LEONARD	HORMONAL REGULATION OF FAT CELL METABOLISM	MET	5R01 AM11892-08	63,104
JONES, EDWARD G.	SYNAPTIC RELATIONS IN SENSORY SYSTEMS	NEUA	5R01 NS10526-03	40,021
KASS, MICHAEL A.	CYCLIC NUCLEOTIDE PHOSPHODIESTERASES AND PROSTAGLANDIN	VISA	1R01 EY01333-01A1	66,340
KAYES, JACK	CYTOLOGY, PATHOPHYSIOLOGY OF AQUEOUS PATHWAYS OF EYE	VIS	3R01 EY00015-10S1	12,962
KEUDELL, KENNETH C.	ENZYMES OF MICROBIAL ISOLATES FROM INFECTED PULP CANALS	DEN	5R23 DE03890-02	10,487
KING, BARRY F.	FUNCTIONAL CYTOLOGY OF THE PLACENTA AND FETAL MEMBRANES	HED	2R01 HD06734-04	34,902
KING, M KENTON	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05389-14	255,345
KINSKY, STEPHEN C.	EFFECT OF ANTIBODY-COMPLEMENT ON ARTIFICIAL MEMBRANES	ALY	5R01 AI09319-06	70,295
KIPNIS, DAVID M.	TRANSPORT PROCESSES IN MAMMALIAN CELLS	MET	5R01 AM01921-18	145,216
KIPNIS, DAVID M.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	2M01 RR00036-15	1,415,241
KLAHR, SAULO	STUDY OF RENAL DISEASE	SSS	2P01 AM00976-10	295,524
KORNFELD, STUART A.	THE STRUCTURE AND BIOLOGIC FUNCTION OF GLYCOPROTEINS	PC	2R01 CA08759-09	115,376
KRUKOWSKI, MARILYN	BONE DEVELOPMENT AND CALCIUM METABOLISM IN FETAL RATS	HED	5R01 HD07419-03	30,720
LACY, PAUL E.	ELECTRON MICROSCOPY OF ISLET CELLS	MBY	2R01 AM001226-19	76,776
LACY, PAUL E.	MICROENZYMATIC STUDIES OF ISLETS OF LANGERHANS	MET	2R01 AM03373-16	42,795
LACY, PAUL E.	STUDY OF SECRETION AND BIOSYNTHESIS OF INSULIN	MET	5R01 AM06181-14	121,891
LANDAU, WILLIAM M.	AN INTERDISCIPLINARY STROKE PROGRAM	NSPA	5P01 NS06833-09	347,730
LICHTENSTEIN, JACK R.	HERITABLE DISEASES OF COLLAGEN METABOLISM	GMA	1R01 AM18515-01	134,261
LOEB, VIRGIL, JR.	SOUTHEASTERN CANCER STUDY GROUP	CCI	3R10 CA03376-18S1	19,156
LOEB, VIRGIL, JR.	COOPERATIVE STUDY OF CANCER	CCI	2R10 CA03376-19	67,954
LOEWY, ARTHUR D.	DEGENERATIVE AND REGENERATIVE CHANGES IN THE CNS	NEUB	7R01 NS12751-01	50,828
LOWRY, OLIVER H.	QUANTITATIVE HISTOCHEMISTRY OF DEVELOPING ORGANS	PHY	5R01 HD03891-07	79,999
LOWRY, OLIVER H.	METABOLIC CONTROL IN PREIMPLANTATION MOUSE EMBRYOS	HED	1R01 HD08922-01	24,103
LOWRY, OLIVER H.	METABOLISM OF CELLS AND PARTS OF CELLS IN NERVOUS TISSUE	NEUA	2R01 NS08862-06	43,380
LYNCH, RICHARD G.	MECHANISMS OF IMMUNOSUPPRESSION OF MURINE MYELOMA	PTHB	5R01 CA15306-02	65,756
LYNCH, RICHARD G.	LOCALIZATION OF MYELOMA CELL SURFACE IMMUNOGLOBULIN	PTHB	1R01 CA17114-01	59,594
MAJERUS, PHILIP W.	SPECIALIZED CENTER OF RESEARCH IN THROMBOSIS	SRC	5P17 HL14147-05	517,260
MAJERUS, PHILIP W.	REGULATION OF METABOLISM IN FIBROBLASTS AND PLATELETS	PC	5R01 HL16634-10	133,862
MARSHALL, GARLAND R.	HYPERTENSION—CHEMISTRY AND BIOPHYSICS OF ANGIOTENSIN	BBCB	5R01 HL14509-04	51,424



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MISSOURI—Continued</b>				
MARSHALL, GARLAND R.	MECHANISM OF ACTION OF PEPTIDE NEUROTRANSMITTER MODEL	BBCB	5R01 NS11170-03	31,557
MATHEWS, F. SCOTT	STRUCTURAL STUDIES OF CYTOCHROME B562	BBCB	5R01 GM20530-03	69,072
MATSCHINSKY, FRANZ M.	METABOLISM OF ISLETS OF LANGERHANS AND HORMONE RELEASE	END	5R01 AM10591-10	73,379
MATSCHINSKY, FRANZ M.	STUDIES WITH PROSTAGLANDIN DEHYDROGENASE	PC	3R01 GM20758-01S1	820
MATSCHINSKY, FRANZ M.	BIOCHEMISTRY OF PROMINENT STRUCTURES OF THE COCHLEA	CMS	5R01 NS08000-08	52,521
MC DOUGAL, DAVID B., JR.	THE ROLE OF THIAMINE IN CNS FUNCTION AND METABOLISM	NTN	5R01 NS06800-08	48,756
MC DOUGAL, DAVID B., JR.	METABOLISM AND FUNCTION IN PERIPHERAL NERVE	NEUA	1R01 NS11941-01	37,925
MEDOFF, GERALD	TREATMENT OF FUNGAL INFECTIONS	BM	2R01 AI10622-04	73,838
MICHAELIDES, MARIA C.	IMMUNE STATUS OF THE LDV-INFECTED MOUSE	VR	1R01 AI12243-01	57,187
MILLER, JAMES E.	A STUDY OF NORMAL AND DISEASED EXTRAOCULAR MUSCLE	VISA	5R01 EY00519-06	79,545
MOLNAR, STEPHEN	EXPERIMENTAL ANALYSIS OF THE MASTICATORY FORCE SYSTEM	DEN	1R01 DE04029-01	28,328
MOOG, FLORENCE	FUNCTIONAL DIFFERENTIATION OF THE SMALL INTESTINE	CBY	5R01 HD03490-21	54,076
MOORE, BLAKE W.	FRACTIONATION OF BRAIN PROTEINS	BIO	5R01 NS05270-12	67,959
MOSES, ROBERT A.	FACTORS AFFECTING INTRAOCULAR PRESSURE	VIS	5R01 EY00256-12	141,337
NEEDLEMAN, PHILIP	STUDY OF ORGANIC NITRATES AND VASODILATORS	PHRA	5R01 HL11771-07	45,405
NEEDLEMAN, PHILIP	HYPERTENSION—BIOCHEMICAL PHARMACOLOGY OF ANGIOTENSIN	GMB	5R01 HL14397-04	52,075
OGURA, JOSEPH H.	PHYSIOLOGY OF THE LARYNX ANALOG	CMS	2R01 NS06200-09A1	68,678
OGURA, JOSEPH H.	STUDY OF COMMUNICATIVE DISORDERS	NSPB	5P01 NS11417-02	164,635
OLIVER, G. CHARLES	PREDICTION AND PREVENTION OF SUDDEN CARDIAC DEATH	SRC	1R01 HL18808-01	374,169
OLNEY, JOHN W.	CNS ULTRASTRUCTURE: DISEASE, DRUGS AND DEVELOPMENT	NEUB	5R01 NS09156-05	47,839
PAGLIARA, ANTHONY S.	MECHANISMS CONTROLLING GLUCAGON SECRETION	END	1R01 AM17810-01	39,490
PAGLIARA, ANTHONY S.	ETIOLOGY OF HYPOLYCEMIA IN INFANTS AND CHILDREN	MET	2R01 HD06355-04	39,636
PARKER, CHARLES W.	CLINICAL STUDY OF ASTHMA	AIRC	5P15 AI10405-05	77,923
PARKER, CHARLES W.	CYCIC NUCLEOTIDES IN IMMUNITY	SRC	5P01 AI12450-02	182,287
PARKER, CHARLES W.	CYTOTOXIC ANTITUMOR ANTIBODIES	IMB	2R01 CA12626-04	99,600
PEREZ, CARLOS A.	COOPERATIVE STUDY OF RADIATION THERAPY	CCI	5R10 CA12261-04	41,765
PERMUTT, MARSHALL A.	CONTROL OF INSULIN BIOSYNTHESIS	MET	5R01 AM16746-03	34,862
PERRY, H. MITCHELL, JR.	TOXICITY TO AND PHARMACOLOGY OF HYDRALAZINE	TOX	2R01 HL10906-10	27,338
PFIEFFER, RUSSELL R.	PERIPHERAL AUDITORY MECHANISMS	CMS	5R01 NS07498-08	63,852
PIERCE, JOHN A.	STUDY OF EMPHYSEMA	HEP	5P01 HL16118-02	276,260
POLAKOSKI, KENNETH L.	ACTIVE SITE CHARACTERIZATION OF ACROSIN	REB	1R01 HD09422-01	27,847
POWERS, WILLIAM E.	CLINICAL CANCER RADIATION ONCOLOGY CANCER CENTER	CAP	5P02 CA13053-04	1,710,239
PRICE, JOSEPH L.	STUDIES ON THE OLFACTORY CORTEX	NEUB	5R01 NS09518-05	30,346
PULLON, PETER A.	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17966-01	30,545
RAKOWSKI, ROBERT F.	THE ACTIVATION MECHANISM OF SKELETAL MUSCLE	PHY	5R01 AM16528-04	37,456
RASKAS, HESCHEL J.	GENE EXPRESSION OF ONCOGENIC VIRUSES	VR	5R01 CA16007-02	43,975
RASKAS, HESCHEL J.	CELLULAR ROLE IN REPLICATION OF ONCOGENIC VIRUSES	VR	1R01 CA18462-01	35,945
ROEDER, ROBERT G.	REGULATION OF ADENOVIRUS GENE EXPRESSION	VR	1R01 CA16640-01	55,040
ROGERS, JOHN C.	MECHANISM AND REASON FOR DNA EXCRETION FROM LYMPHOCYTES	MBV	1R01 CA17143-01	58,204
ROOS, ALBERT	STUDY OF TRANSMEMBRANE MOVEMENTS	PHY	5R01 HL00082-26	41,281
ROVAINEN, CARL M.	ORGANIZATION OF PRIMITIVE SPINAL CORD	NEUB	5R01 NS09367-05	47,588
SCHLAEPFER, WILLIAM W.	MECHANISMS OF PERIPHERAL NERVE DYSFUNCTION	PTHA	2R01 NS08620-05	73,398
SCHLESINGER, MILTON J.	EFFECTS OF ENVELOPED RNA VIRUSES ON MURINE IMMUNITY	VR	1R01 AI12237-01	63,347
SCHLESINGER, MILTON J.	RNA-ENVELOPE VIRUS FORMATION IN ANIMAL CELLS	VR	5R01 CA14311-03	69,112
SCHLESINGER, SONDRA	STRUCTURE AND REPLICATION OF ENVELOPED RNA VIRUSES	VR	5R01 AI11377-02	45,925
SCHLESINGER, SONDRA	REPLICATION AND HOST RANGE SPECIFICITY OF LD VIRUS	VR	5R01 AI12242-02	52,167
SCHLESSINGER, DAVID	PROCESSING AND TURNOVER OF HUMAN CELL NUCLEAR RNA	MBV	3R01 GM21357-01S1	3,697
SCHONFELD, GUSTAV	ASSAYS FOR THE PEPTIDES OF LIPOPROTEINS	MET	5R01 HL15308-03	40,173
SCHONFELD, GUSTAV	STUDIES ON THE SECRETION OF PLASMA LIPOPROTEINS	MET	5R01 HL15427-03	38,430
SHEARER, WILLIAM T.	STIMULATION OF TUMOR CELL GROWTH BY ANTIBODY	IMB	1R01 CA16391-01	40,041
SHERMAN, LAURENCE A.	CONTROLLING MECHANISMS FOR SYNTHESIS OF FIBRINOGEN	HEM	1R01 HL17753-01	35,703
SHERMAN, WILLIAM R.	THE METABOLISM OF THE INOSITOLS AND INOSITIDES	NEUB	5R01 NS05159-12	84,148
SILBERT, DAVID F.	BIOCHEMICAL GENETIC STUDY OF BACTERIAL FATTY ACIDS	MBC	5R01 GM16292-07	47,553
SILVER, SIMON D.	BIOCHEMISTRY OF MEMBRANE MUTANTS OF ESCHERICHIA COLI	MBC	2R01 AI08062-07	65,355
SIMMONS, DAVID J.	CIRCADIAN VARIATIONS IN CARTILAGE AND BONE GROWTH	AFY	2R01 AM16391-03	63,819
SIMMS, ERNEST S.	THE STRUCTURE OF IGA IMMUNOGLOBULINS	ALY	2R01 AI03231-16	102,394
SLY, WILLIAM S.	ENZYME THERAPY IN LYSOSOMAL STORAGE DISEASES	SSS	3P01 GM21096-01S1	34,024
SMITH, CARL H.	PLACENTAL MECHANISMS OF AMINO ACID TRANSFER	HED	5R01 HD07562-02	46,260
SMITH, E. KAYE	IMPROVING ANIMAL CARE FOR RESEARCH AND TRAINING	AR	3P06 RR00688-03S1	22,921

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MISSOURI—Continued</b>				
SOBEL, BURTON E.....	BIOCHEMICAL ASSESSMENT OF ISCHEMIC MYOCARDIUM.....	CVA	1R01 HL16705-01	44,796
SOBEL, BURTON E.....	STUDY OF ISCHEMIC HEART DISEASE.....	SRC	1P17 HL17646-01	1,180,892
SPARKS, ROBERT E.....	MEMBRANE FRACTIONATION OF PLASMA PROTEINS.....	BBCA	1R01 HL17825-01	22,895
STAHL, PHILIP D.....	BIOGENESIS OF LYOSOMES IN NORMAL AND NEOPLASTIC TISSUE.....	MBY	5R01 CA12858-04	37,183
STROUD, MALCOLM H.....	MENIERE'S DISEASE—SURGERY FOR CONSERVATION OF HEARING.....	CMS	5R01 NS10448-04	42,469
SUTERA, SALVATORE P.....	BLOOD DEGRADATION IN ARTIFICIAL ORGANS.....	SGYA	5R01 HL12839-06	124,352
SWEET, FREDERICK.....	STERIOD BIOSYNTHESIS, TRANSPORT & MECHANISM OF ACTION.....	END	5R01 AM16854-02	22,419
TER-POGOSSIAN, MICHEL M.....	CYCLOTRON PRODUCED ISOTOPES IN BIOLOGY AND MEDICINE.....	HEP	3P01 HL13851-12S1	55,556
TER-POGOSSIAN, MICHEL M.....	CYCLOTRON PRODUCED ISOTOPES IN BIOLOGY AND MEDICINE.....	HEP	5P01 HL13851-13	341,311
TER-POGOSSIAN, MICHEL M.....	MEASUREMENT OF REGIONAL CBV BY X-RAY FLUORESCENCE.....	RAD	5R01 HL15423-03	67,865
THACH, ROBERT E.....	CONTROL OF PROTEIN SYNTHESIS IN VIRAL ONCOGENESIS.....	VR	3R01 CA13008-03S1	19,608
THACH, ROBERT E.....	REPLICATION OF VIRULENT AND ONCOGENIC VIRUSES.....	VR	2R01 CA13008-04	79,189
THURSTON, JEAN H.....	CEREBRAL METABOLISM IN THE NEWBORN AND THE YOUNG.....	MET	5R01 NS06163-10	81,397
THURSTON, JEAN H.....	CEREBRAL METABOLISM IN THE NEWBORN AND THE YOUNG.....	MET	2R01 NS06163-11	83,233
TOLMACH, L J.....	EFFECTS OF X-RAYS ON NORMAL AND MALIGNANT CELLS.....	RAD	5R01 CA04483-16	134,965
TORACK, RICHARD M.....	CAPILLARY PERMEABILITY IN EXPERIMENTAL DIABETES.....	PTHA	5R01 AM17485-02	31,050
TROTTER, MILDRED.....	DEVELOPMENT OF SKELETAL WEIGHTS IN CHILDREN.....	GMB	5R01 HD02619-09	57,556
VIETTI, TERESA J.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA05587-15	204,108
VOLPE, JOSEPH J.....	REGULATION OF FATTY ACID SYNTHESIS DURING DEVELOPMENT.....	MET	5R01 HD07464-02	16,003
WALTMAN, STEPHEN R.....	STUDIES IN GLAUCOMA AND RELATED DISEASES.....	VISA	5R01 EY01167-03	19,507
WARREN, JAMES C.....	BINDING, BIOSYNTHESIS, AND ACTION OF STEROIDS.....	END	5R01 AM15708-04	90,367
WEEKS, PAUL M.....	THE BIOLOGY OF SCAR MATURATION.....	SGYA	1R01 GM21598-01	59,439
WILLARD, MARK B.....	AXONALLY TRANSPORTED PROTEINS IN THE VISUAL SYSTEM.....	NEUB	1R01 NS12450-01	44,529
WILLIAMSON, JOSEPH R.....	CAPILLARY BASEMENT MEMBRANE IN CARDIOVASCULAR DISEASE.....	PTHA	5R01 HL13694-05	63,654
WILLIAMSON, JOSEPH R.....	PHYSICAL PROPERTIES & STRUCTURE OF THE RED CELL MEMBRANE.....	BBCB	1R01 HL17819-01	42,196
WOOLSEY, THOMAS A.....	THE STRUCTURE OF THE SOMATOSENSORY NEOCORTEX.....	NEUB	2R01 NS10244-04	35,516
ORGANIZATION TOTAL	182	20,527,218		
STATE TOTAL	309	28,738,656		

## MONTANA

### BOZEMAN

<b>MONTANA STATE UNIVERSITY</b>		<b>ZIP CODE 59715</b>		
COKELET, GILES R.....	THE RHEOLOGY AND CAPILLARY FLOW OF BLOOD.....	CVB	2R01 HL12723-06	68,159
DIERKS, RICHARD E.....	EPIDEMIOLOGICAL STUDIES OF LATENT RABIES INFECTIONS.....	VR	7R22 AI12873-01	43,170
JENNINGS, P W.....	A STUDY OF ACTION AND METABOLIC FATE OF LIVER TOXINS.....	TOX	5R01 GM19783-02	31,511
JUTILA, JOHN W.....	STUDIES ON THE PATHOGENESIS OF WASTING DISEASES.....	IMB	5R01 AI06552-11	20,400
JUTILA, JOHN W.....	MEDICAL SIGNIFICANCE OF ANTI-IG IMMUNOSUPPRESSION.....	IMB	5R01 AI11625-02	16,288
REED, NORMAN D.....	IMMUNOLOGY OF GERMFREE GENETICALLY THYMUSLESS MICE.....	IMB	5R01 AI10384-05	20,654
REED, NORMAN D.....	CELLULAR AND HUMORAL IMMUNITY IN HELMINTH INFECTIONS.....	TMP	1R01 AI12854-01	23,843
REED, NORMAN D.....	ONCOGENESIS IN CONGENITALLY ATHYMIC MICE.....	IMB	5R01 CA15322-02	17,804
ORGANIZATION TOTAL	8	241,829		

### GREAT FALLS

<b>COLUMBUS HOSPITAL</b>		<b>ZIP CODE 59401</b>		
STIMPFEL, JACK H.....	THE HISTOCOMPATIBILITY ANTIGENS OF THE MOUSE.....	IMB	2R01 AI06525-11	82,689
ORGANIZATION TOTAL	1	82,689		

### MISSOULA

<b>STELLA DUNCAN MEMORIAL INSTITUTE</b>		<b>ZIP CODE 59801</b>		
LARSON, CARL L.....	INHIBITION OF MELANOMAS BY CELL WALLS AND LIPIDS.....	BM	5R01 CA15865-02	18,855
ORGANIZATION TOTAL	1	18,855		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>MONTANA—Continued</b>				
<b>UNIVERSITY OF MONTANA</b>	<b>ZIP CODE 59801</b>			
ANDERSON, C LE ROY .....	BIOMEDICAL SCIENCES SUPPORT GRANT .....	NSS	5S05 RR07134-03	23,664
FEVOLD, H RICHARD .....	ACTH ACTION ON ADRENAL 17ALPHA-HYDROXYLATION .....	END	1R01 AM18492-01	30,010
GUSTAFSON, GARY L .....	CONTROL OF ENZYME ACCUMULATION DURING DIFFERENTIATION .....	BIO	1R01 GM22188-01	30,236
HILL, WALTER E .....	PHYSICAL STUDIES OF ALTERED RIBOSOMAL SUBUNITS .....	BBCA	5R01 GM17436-05	52,444
LARSON, CARL L .....	IMMUNOLOGICAL ASPECTS OF RIBOSOMES OF MYCOBACTERIA .....	BM	5R01 AI05370-12	28,483
LARSON, CARL L .....	NONSPECIFIC RESISTANCE TO VIRAL-INDUCED TUMORS .....	VR	5R01 CA12795-04	60,804
PATENT, GREGORY J .....	NERVOUS REGULATION OF INSULIN RELEASE .....	END	1R01 AM17161-01A1	30,140
ORGANIZATION TOTAL	7 255,781			
<b>WESTERN MONTANA CLINIC</b>	<b>ZIP CODE 59801</b>			
WILSON, WESLEY W .....	COOPERATIVE STUDY OF CANCER .....	CCI	5R10 CA14443-03	14,050
ORGANIZATION TOTAL	1 14,050			
STATE TOTAL	18 613,204			
<b>NEBRASKA</b>				
<b>LINCOLN</b>				
<b>UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA AT LINCOLN</b>	<b>ZIP CODE 68508</b>			
BANERJEE, MIHIR R .....	HORMONES CELLULAR BIOSYNTHESIS/MAMMARY CARCINOGENESIS .....	PTHB	5R01 CA11058-07	81,302
BRUMBAUGH, JOHN A .....	TYPES OF GENETIC MECHANISMS CONTROLLING MELANOGENESIS .....	GEN	2R01 GM18969-04	44,379
BULLERMAN, LLOYD B .....	CARCINOGENIC MYCOTOXIN FORMATION IN REFRIGERATED FOOD .....	BM	5R01 CA14260-03	17,197
CROMWELL, NORMAN H .....	STUDIES IN HETEROCYCLIC SYNTHESIS .....	MCHA	2R01 CA02931-18	51,937
DYER, JOHN K .....	AMINO ACID FERMENTATION BY BACTERIOIDES MELANINOGENICUS .....	MBC	5R23 DE03672-03	10,090
GUPTA, NABA K .....	GENETIC CODE, PROTEIN SYNTHESIS IN MAMMALIAN SYSTEMS .....	PC	3R01 GM18796-03S1	7,672
GUPTA, NABA K .....	GENETIC CODE AND PROTEIN SYNTHESIS IN MAMMALIAN SYSTEMS .....	PC	2R01 GM18796-04	53,725
GUPTA, NABA K .....	PROTEIN SYNTHESIS INITIATION IN RED BLOOD CELLS .....	BIO	1R01 GM22079-01	74,463
MEINTS, RUSSEL H .....	STUDIES OF HEMOPOIETIC STEM CELL SURFACE CHARACTERS .....	HEM	5R01 AM17434-02	34,501
PARKHURST, LAWRENCE J .....	HEMOGLOBIN AND MYOGLOBIN KINETIC STUDIES .....	BBCB	5R01 HL15284-03	48,568
PETERS, ALEXANDER R .....	PROPHYLACTIC ANTIBIOTICS IN ACRYLIC CEMENT .....	AFY	1R01 AM18794-01	78,835
SCHMEHL, FRANCIS L .....	BIOMEDICAL SCIENCES SUPPORT GRANT .....	NSS	5S05 RR07055-10	32,010
SMITH, GARY L .....	GROWTH CONTROL IN NORMAL AND NEOPLASTIC CELLS .....	MBV	1R01 CA17620-01	33,471
VAN ETEN, JAMES L .....	MACROMOLECULAR ASPECTS OF FUNGAL SPORE GERMINATION .....	MBC	2R01 AI08057-07	27,988
VIDAVER, ANNE MARIE K .....	VIRUSES OF PSEUDOMONAS SPECIES .....	VR	2R01 AI10638-04	36,817
ORGANIZATION TOTAL	15 632,955			
<b>OMAHA</b>				
<b>CREIGHTON UNIVERSITY</b>	<b>ZIP CODE 68178</b>			
BAUMEL, JULIAN J .....	PUBLICATION OF ANATOMICAL NOMENCLATURE OF BIRDS .....	BCM	1R01 LM02420-01	17,568
HEANEY, ROBERT P .....	SUPPORT FOR BONE RESEARCH CENTER .....	GMB	5R01 AM07912-11	111,147
HERD, JOHN K .....	ISOLATION OF HURLER'S CORRECTIVE FACTORS FROM SERUM .....	MET	5R01 AM17020-03	36,468
HOLTHAUS, JOSEPH M .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05390-14	61,247
LYNCH, HENRY T .....	MAINTENANCE OF CANCER FAMILY SYNDROME RESOURCE .....	CCG	1R01 CA18408-01	50,015
MAGEE, DONAL F .....	STUDY OF SECRETION OF PEPsin .....	SGYB	5R01 AM17125-02	29,875
SANDERS, W EUGENE, JR .....	PREVENTION OF PYOGENIC INFECTIONS .....	BM	2R01 AI11584-03	25,083
TOWNLEY, ROBERT G .....	ALLERGIC DISEASES CENTER GRANT—MECHANISMS IN ASTHMA .....	AIRC	5P15 AI12029-02	67,869
WATT, DEAN D .....	BIOLOGICAL-IMMUNOLOGICAL ACTIONS OF TOXINS .....	TOX	1R01 NS12365-01	32,229
ORGANIZATION TOTAL	9 431,501			
<b>UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA AT OMAHA</b>	<b>ZIP CODE 68101</b>			
HENDRICKS, SHELTON E .....	NEUROENDOCRINE AND BEHAVIORAL CORRELATES OF AGING .....	EXP	2R01 NS10027-04	55,877
ORGANIZATION TOTAL	1 55,877			



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEBRASKA—Continued</b>				
<b>UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER</b>		<b>ZIP CODE 68105</b>		
ANGLE, CAROL R.....	LOW LEVEL LEAD TOXICITY IN CHILDHOOD ANEMIAS.....	TOX	2R01 ES00939-02	45,465
BARAK, ANTHONY J.....	METHOTREXATE INDUCED LIVER INJURY.....	ET	1R01 CA17009-01	28,652
BARKER, KENNETH L.....	SPECIFICITY OF UTERINE RESPONSE TO OVARIAN HORMONES.....	REB	2R01 HD02851-08	65,541
BENSCHÖTER, REBA A.....	3RD EDITION - 8MM FILMS IN MEDICINE AND HEALTH SCIENCES.....	BLR	1R01 LM02380-01	30,903
CAVALIERI, ERCOLE L.....	QUANTITATIVE STUDY OF CARCINOGENESIS BY HYDROCARBONS.....	ET	5R01 CA14826-03	55,466
COOK, DAVID E.....	REGULATION OF DIABETIC GLUCONEOGENESIS BY BIGUANIDES.....	MET	1R01 AM17400-01A1	31,230
ELLINGSON, ROBERT J.....	LONGITUDINAL STUDY OF EEGS AND EPS OF INFANTS.....	SSS	1R01 HD09338-01	87,056
GIBBS, GORDON E.....	RETINAL MICROANEURYSMS, EFFECT OF HYPOPHYSECTOMY.....	VISA	2R01 EY00437-06A1	7,946
GILMORE, JOSEPH P.....	NEURAL CONTROL OF BLOOD VOLUME.....	CVA	5R01 HL13427-05	36,660
GILMORE, JOSEPH P.....	REACTIVITY OF MAMMALIAN RENAL MICROCIRCULATION.....	CVB	1R01 HL17902-01	30,696
GRANDJEAN, CARTER J.....	METABOLISM AND MODE OF ACTION OF NITROSAMINES.....	ET	5R01 CA14659-03	59,923
HEIDRICK, MARGARET L.....	AGING OF IMMUNOCOMPETENT CELLS.....	ALY	1R01 AI12454-01	30,854
HEIDRICK, MARGARET L.....	CYCLIC AMP LEVELS IN TUMOR CELLS.....	MBY	5R01 CA16279-02	28,012
MORIARTY, C MICHAEL.....	CELLULAR MECHANISMS OF PITUITARY HORMONE SECRETION.....	GMB	1R01 AM18328-01	22,718
MORIARTY, GWEN C.....	CYTOCHEMICAL DIFFERENTIATION OF GONADOTROPHS.....	REB	1R01 HD08842-01	22,831
RAMALEY, JUDITH A.....	NEURAL CONTROL OF ADRENAL DEVELOPMENT.....	END	1R01 HD08703-01	32,685
RECORDS, RAYMOND E.....	NEOVASCULAR MACULAR DISEASE: PATHOGENESIS AND THERAPY.....	VISA	5R01 EY00827-02	8,224
RIGBY, PERRY.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05391-14	60,524
RUEGAMER, WILLIAM R.....	GROWTH FACTOR FROM PLEROCERCOIDS OF S. MANSONOIDES.....	END	5R01 AM17226-02	10,715
RYAN, WAYNE L.....	INITIATION-PROMOTION CARCINOGENESIS-ROLE OF ANTIBODY.....	ET	1R01 CA17846-01	40,542
SHUBIK, PHILIPPE.....	STUDIES IN TUMOR ANGIOGENESIS AND INVASIVENESS.....	PTHB	5R01 CA14766-03	38,800
STENBACK, FREJ G.....	STUDY OF IRREVERSIBILITY OF LATENT TUMOR CELLS.....	PTHB	5R01 CA14710-03	15,144
WILLINGHAM, ALLAN K.....	THE ROLE OF VITAMIN K IN PROTHROMBIN BIOSYNTHESIS.....	HEM	5R01 HL16912-02	38,913
ORGANIZATION TOTAL	23	829,500		
STATE TOTAL	48	1,949,833		
<b>NEVADA</b>				
<b>UNIVERSITY OF NEVADA SYSTEM—UNIVERSITY OF NEVADA RENO</b>		<b>ZIP CODE 89507</b>		
DILL, DAVID B.....	CARDIOVASCULAR ADAPTATION TO DESERT AND MOUNTAIN.....	AFY	2R01 HD05625-04A1	20,378
ORGANIZATION TOTAL	1	20,378		
STATE TOTAL	1	20,378		
<b>NEW HAMPSHIRE</b>				
<b>DURHAM</b>				
<b>UNIVERSITY OF NEW HAMPSHIRE SYSTEM—UNIVERSITY OF NEW HAMPSHIRE</b>		<b>ZIP CODE 03824</b>		
CHASTEEN, N DENNIS.....	VANADYL ION EPR: METAL-BIOPOLYMER INTERACTIONS.....	BBCB	2R01 GM20194-04	70,936
COLLINS, WALTER M.....	GENETICS, THE LYMPHOCYTE AND TUMOR REGRESSION.....	IMB	1R01 CA17680-01	42,190
GREEN, DONALD M.....	EARLY EXTRACELLULAR EVENTS IN DNA INFECTION.....	MBG	5R01 AI11318-02	31,124
HERBST, EDWARD J.....	POLYAMINES AS METABOLIC INDICATORS OF CARCINOGENESIS.....	ET	1R01 CA16827-01	49,007
LYLE, ROBERT E.....	SYNTHESIS OF THE ANTICANCER AGENT, CAMPTOTHECIN.....	MCHB	3R01 CA12149-03S1	5,538
MORRISON, JAMES D.....	SYNTHESIS OF AMBIPHILIC CYCLOPEPSIPEPTIDES.....	MCHA	5R01 HL15771-02	33,432
PISTOLE, THOMAS G.....	NATURALLY-OCCURRING AGGLUTININS FROM INVERTEBRATES.....	BM	1R01 AI12817-01	18,927
SMITH, ROBERT A, JR.....	THE PHYSIOLOGY OF TUNED CHANNELS IN HUMAN VISION.....	VISB	1R23 EY01475-01	8,782
STEWART, JAMES A.....	REGULATION OF PROTEIN SYNTHESIS IN NEURAL DEVELOPMENT.....	CBY	2R01 NS08391-07	41,899
ORGANIZATION TOTAL	9	301,835		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW HAMPSHIRE—Continued</b>				
<b>HANOVER</b>				
<b>DARTMOUTH COLLEGE</b>	<b>ZIP CODE 03755</b>			
ALLEN, ROBERT D.	STUDIES ON SELECTED BIOLOGICAL MOVEMENT PROCESSES	CBY	7R01 GM22356-01	116,906
BORISON, HERBERT L.	CHEMOSENSORS OF THE NERVOUS SYSTEM	NEUB	5R01 NS04456-13	67,586
BROWN, STANLEY A.	BIOELECTRO-MECHANICS OF FRACTURE MANAGEMENT	AFY	1R01 AM17749-01	53,485
CULP, WILLIAM J.	SODIUM CHANNEL COMPONENTS AND MEMBRANE EXCITATION	NEUB	1R01 NS12067-01	55,100
DAUBENSPECK, JOHN A.	VENTILATORY WORKRATE DYNAMICS IN CO2 REGULATION	SRC	1R23 HL17116-01	44,720
ESTAVILLO, JAIME A.	ANALYSIS OF END-NET RECEPTORS	CVA	1R01 HL16270-01A1	40,536
FERM, VERGIL H.	TERATOGENIC EFFECTS OF HEAVY METALS	HED	5R01 ES00697-04	61,839
FORSTER, ROY P.	CELLULAR ASPECTS OF ACTIVE TRANSPORT	PHY	5R01 HL04457-17	21,962
GALTON, VALERIE A.	THE METABOLISM AND ACTION OF THYROXINE IN THE PITUITARY	END	5R01 AM16172-02	33,316
GALTON, VALERIE A.	MECHANISMS OF THYROID HORMONE ACTION IN DEVELOPMENT	END	1R01 HD09020-01	29,466
GILBERT, JOHN J.	VITAMIN E: NEW BIOASSAY, NEW EFFECTS, NEW COMPOUND	CBY	5R01 HD08210-02	26,857
GOSSELIN, ROBERT E.	DRUG EFFECTS ON SOLUTE TRANSPORT ACROSS EPITHELIA	PHRA	5R01 GM11598-12	56,125
GRIBBLE, GORDON W.	SYNTHESES OF ANTITUMOR INDOLE ALKALOIDS	MCHA	5R01 CA14237-03	30,256
GRIBBLE, GORDON W.	SYNTHESIS OF POLYNUCLEAR AROMATIC HYDROCARBONS	MCHA	5R01 CA14968-02	24,933
HORNIG, JAMES F.	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	5S05 RR07056-02	19,729
INSELBURG, JOSEPH W.	STUDIES OF STABLE PLASMID-CELL ASSOCIATIONS	MBC	2R01 AI08937-07A1	50,291
KILHAM, LAWRENCE	INTRAUTERINE AND TRANSPLACENTAL VIRUS INFECTIONS	VR	5R01 HD07775-14	49,858
LEATON, ROBERT N.	BRAIN MECHANISMS AND REACTIONS TO NOVELTY	EXP	2R01 HD04199-06	33,837
LONGNECKER, DANIEL S.	STUDIES OF AZASERINE INDUCED DNA CHANGES IN RATS	ET	1R01 CA17843-01	44,740
LUBIN, MARTIN	NEUROBLASTOMA: AN E.M. STUDY OF TUMOR DIFFERENTIATION	PTHA	5R01 CA15085-02	29,248
LUBIN, MARTIN	MODIFICATION OF TUMOR CELLS AND TUMOR SYSTEMS	IMB	1R01 CA17293-01	147,194
MARIN-PADILLA, MIGUEL	NORMAL & ABNORMAL STRUCTURE, HUMAN CEREBRAL CORTEX	NEUA	1R01 HD09274-01	59,876
MC INTYRE, O. ROSS	COOPERATIVE STUDY OF ACUTE LEUKEMIA	CCI	2R10 CA04326-17	93,428
MICHAELS, GEORGE A.	STUDIES OF NUCLEAR ENVELOPE IN NORMAL AND TUMOR CELLS	MBY	5R01 CA15831-02	49,868
MUDGE, GILBERT H.	PHARMACOLOGY OF ANGIOGRAPHIC AND CHOLEGRAPHIC AGENTS	PHRA	5R01 AM06818-14	72,017
MUDGE, GILBERT H.	DRUG DISTRIBUTION: RENAL PARENCHYMA, LOOP OF HENLE	PHRA	5R01 AM16960-02	29,534
MUNCK, ALLAN U.	THE MODE OF ACTION OF STEROID HORMONES	END	5R01 AM03535-16	100,950
MUNCK, ALLAN U.	GLUCOCORTICOID-RESISTANT LEUKEMIC LYMPHOCYTES	ET	1R01 CA17323-01	52,725
NASON, ALEXIS P.	ABNORMAL TRACE METALS IN DISEASE	TOX	5R01 ES00699-16	75,037
NATTIE, EUGENE E.	K, CEREBRAL ACID BASE BALANCE AND RESPIRATORY CONTROL	YIP	1R23 HL18351-01	46,000
NODA, LAFAYETTE H.	HIGH-ENERGY PHOSPHATE-TRANSFERRING ENZYMES	BIO	5R01 HL03599-18	72,000
PATRICK, JAMES W.	TROPHIC INTERACTIONS OF NERVE AND MUSCLE	NEUB	2R01 NS11635-02	74,943
PETTENGILL, OLIVE S.	IN VITRO FACTORS ONCOGENICITY OF CULTURED TUMOR CELLS	PTHB	1R01 CA17487-01	40,259
PFEFFERKORN, ELMER R.	BIOCHEMICAL STUDIES OF ARBOVIRUS MULTIPLICATION	SSS	5R01 AI08238-09	50,609
PHILLIPS, PHILIP G.	BIOCHEMICAL PROBES OF MALIGNANT CELL SURFACES	PTHB	1R01 CA16169-01A1	59,620
SALANS, LESTER B.	MORPHOLOGIC AND METABOLIC STUDIES OF HUMAN OBESITY	MET	2R01 AM13321-07	112,554
SCORNIK, OSCAR A.	REGULATION OF PROTEIN SYNTHESIS IN MAMMALIAN LIVER	MBY	5R01 AM13336-07	55,617
SHARP, JOHN J.	THE INTERACTION OF BLOOD PLATELET MEMBRANE AND FIBRIN	HEM	5R01 HL16841-02	33,496
SMITH, KENDALL A.	TUMOR IMMUNITY IN HUMAN AND MURINE LEUKEMIA	IMB	1R01 CA17643-01	52,763
SMITH, LUCILE	RESPIRATORY CHAIN SYSTEM OF HEART MUSCLE AND BACTERIA	BIO	2R01 GM06270-16	67,911
SMITH, ROGER P.	SULFIDE POISONING AND METHEMOGLOBINEMIA	TOX	5R01 HL14127-13	55,143
SORENSEN, GEORGE D.	ELECTRON MICROSCOPY OF LYMPHORETICULAR TISSUES	PTHB	3R01 CA13595-03S1	10,956
SORENSEN, GEORGE D.	MYELOMA TUMORS IN CELL CULTURE	PTHB	5R01 CA13625-04	116,090
SPENCER, THOMAS A.	MECHANISM OF C4 DEMETHYLATION IN STEROID BIOGENESIS	MCHA	5R01 AM12855-07	31,242
SPIEGEL, MELVIN	REAGGREGATION OF DISSOCIATED EMBRYONIC AND ADULT CELLS	CBY	1R01 HD09320-01	52,675
STRICKLER, JAMES C.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05392-14	173,943
STROHBEHN, JOHN W.	A MATHEMATICAL INVESTIGATION OF TOMOGRAPHY	RAD	1R01 GM22081-01	28,847
TENNEY, STEPHEN M.	INTERRELATIONSHIPS OF CIRCULATION AND RESPIRATION	PHY	2R01 HL02888-19	42,415
THRON, CHRISTOPHER D.	MATHEMATICAL THEORY OF PHARMACOKINETICS	COM	3R01 GM21269-01S1	4,126
TRUMPOWER, BERNARD L.	STRUCTURE AND FUNCTION OF HEART MEMBRANE PROTEINS	BIO	5R01 GM20379-03	45,672
<b>ORGANIZATION TOTAL</b>	<b>50</b>			<b>2,798,300</b>
<b>STATE TOTAL</b>	<b>59</b>			<b>3,100,135</b>

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW JERSEY</b>				
<b>CAMDEN</b>				
<b>INSTITUTE FOR MEDICAL RESEARCH      ZIP CODE 08103</b>				
CORIELL, LEWIS L.....	CORE PROGRAM ON ETIOLOGY OF CANCER.....	CAP	5P01 CA11405-07	254,999
CORIELL, LEWIS L.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05582-08	60,030
LASFARGUES, ETIENNE Y.....	TISSUE CULTURE STUDIES OF THE MAMMARY TUMOR VIRUS.....	VR	3R01 CA08515-09S1	12,364
LASFARGUES, ETIENNE Y.....	TISSUE CULTURE STUDIES OF THE MAMMARY TUMOR VIRUS.....	VR	2R01 CA08515-10	63,399
MC GARRITY, GERARD J.....	MASS AIR FLOW FOR ANIMAL ISOLATION/QUARANTINE.....	AR	1R01 RR00903-01	35,820
MILLER, ROBERT C.....	CHEMICALLY INDUCED HERITABLE CHROMOSOME DEFECTS.....	GEN	1R01 ES01136-01	104,843
MOORE, DAN H.....	ETIOLOGICAL STUDIES OF MAMMARY CARCINOMA.....	VR	2R01 CA08740-09	166,905
ORGANIZATION TOTAL	7		698,360	
<b>JERSEY CITY</b>				
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY-NEW JERSEY DENTAL SCHOOL      ZIP CODE 07304</b>				
NAJJAR, TALIB A.....	EFFECTS OF INFLAMMATION ON MANDIBULAR BLOCK ANESTHESIA.....	DEN	5R23 DE03612-03	9,850
SHOVLIN, FRANCIS E.....	UPTAKE OF HYDROXYAPATITE PHOSPHORUS BY ORAL BACTERIA.....	DEN	5R01 DE03867-02	36,943
ORGANIZATION TOTAL	2		46,793	
<b>JERSEY CITY MEDICAL CENTER      ZIP CODE 07304</b>				
WEDEEN, RICHARD P.....	AUTORADIOGRAPHIC STUDIES OF CONCENTRATIVE TRANSPORT.....	GMB	2R01 AM16266-04	69,795
ORGANIZATION TOTAL	1		69,795	
<b>LONG BRANCH</b>				
<b>MONMOUTH MEDICAL CENTER      ZIP CODE 07740</b>				
SALWEN, MARTIN J.....	SYSTEM FOR THE POSITIVE IDENTIFICATION OF SPECIMENS.....	COM	5R01 GM19248-03	64,766
ORGANIZATION TOTAL	1		64,766	
<b>NEWARK</b>				
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY      ZIP CODE 07103</b>				
BARTELL, PASQUALE F.....	STUDIES ON THE EXTRACELLULAR SLIME OF P. AERUGINOSA.....	BM	2R01 AI08504-07	52,412
CHINARD, FRANCIS P.....	PULMONARY TRANSPORT AND METABOLISM IN VIVO.....	CVA	3R01 HL12879-05S1	54,979
CHINARD, FRANCIS P.....	PULMONARY TRANSPORT AND METABOLISM IN VIVO.....	CVA	2R01 HL12879-06	279,688
FARNSWORTH, PATRICIA N.....	COMPARATIVE STUDY OF AGING OF THE CRYSTALLINE LENS.....	VISA	1R01 EY01533-01	76,826
FERRANTE, FRANK L.....	EVALUATION OF OXYGEN CONSERVING REFLEXES.....	AFY	5R01 HL13443-04	9,893
FU, S JOSEPH.....	PROGRESSION OF CATARACTOGENESIS AND POSSIBLE REVERSAL.....	VISA	5R01 EY01156-02	58,205
GONA, AMOS G.....	NORMAL AND THYROID-INDUCED CEREBELLAR MATURATION.....	CBY	5R01 HD08157-02	26,398
HILDING, DAVID A.....	ELECTRON MICROSCOPY AND HISTOCHEMISTRY OF INNER EAR.....	CMS	5R01 NS11636-03	68,495
HIRSCHBERG, ERICH.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05393-14	138,737
HOWLAND, RICHARD D.....	HETEROGENEITY OF UDP-GLUCURONYLTRANSFERASE.....	BIO	5R01 GM20481-02	25,620
INGOGLIA, NICHOLAS A.....	RNA TRANSPORT IN NORMAL AND REGENERATING NERVES.....	NEUB	5R01 NS11259-02	24,194
KUMAR, SURIENDER.....	MECHANISM OF CONTROL OF FATTY ACID SYNTHESIS.....	PC	5R01 AM16070-02	44,283
LAEMLE, LOIS K.....	AN EXPERIMENTAL STUDY OF THE DEVELOPING VISUAL SYSTEM.....	VISB	5R01 EY01174-02	26,595
LAZARO, ERIC J.....	LIPID ROLE IN PANCREATITIS: PATHOPHYSIOLOGY & DIAGNOSIS.....	PTHA	1R01 AM17921-01A1	53,203
LEA, MICHAEL A.....	HISTONE METABOLISM IN NEOPLASTIC TISSUES.....	ET	2R01 CA12933-04	54,719
LEA, MICHAEL A.....	NON-HISTONE CHROMOSOMAL PROTEINS AND HEPATOMA GROWTH.....	ET	5R01 CA16274-02	29,331
LOURIA, DONALD B.....	INFLUENCE OF TRACE METALS ON EXPERIMENTAL INFECTIONS.....	TOX	5R01 ES00888-02	53,876
LOWNDES, HERBERT E.....	DRUG-INDUCED SENSORY AND MOTOR NERVE DYSFUNCTION.....	TOX	1R01 NS11948-01A1	36,275
MARKS, RICHARD H.....	STRUCTURE-FUNCTION RELATIONSHIPS IN COPPER PROTEINS.....	BIO	1R01 GM20824-01	27,599
MC ARDLE, JOSEPH J.....	CONTROL OF MUSCLE DURING REINNERVATION.....	PHRA	5R01 NS11055-03	22,725
MORSE, BERNARD S.....	REGULATION OF ERYTHROID MATURATION.....	HEM	3R01 AM15443-03S1	17,753
MOSCHOS, CHRISTOS B.....	STUDY OF CORONARY THROMBOSIS.....	CVB	5R01 HL13036-05	81,879
PERL, WILLIAM.....	TRACER KINETICS, FLOWS AND MASSES IN BODY ORGANS.....	CVA	5R01 HL12974-06	51,396
REGAN, TIMOTHY J.....	MYOCARDIAL FUNCTION AND METABOLISM IN CHRONIC DISEASE.....	CVB	5R01 HL09914-10	162,951
RUSH, BENJAMIN F, JR.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12289-05	18,844
RUSH, BENJAMIN F, JR.....	PATHOPHYSIOLOGY OF POST-TRAUMATIC AND SHOCK STATES.....	SGYB	5R01 HL13193-06	46,089



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW JERSEY—Continued</b>				
SALEN, GERALD	THE METABOLISM OF URSODEOXYCHOLIC ACID IN MAN	GMA	1R01 AM18707-01	44,676
SALEN, GERALD	METABOLISM OF CHOLESTANOL AND CHOLESTEROL IN MAN	MET	9R01 HL17818-02	54,543
SCHWALB, MARVIN N.	REGULATION OF MORPHOGENESIS IN THE HIGHER FUNGI	BM	2R01 AI09779-06	34,118
SIEGEL, ALLAN	ROLE OF THE LIMBIC SYSTEM IN HYPOTHALAMIC AGGRESSION	NEUA	5R01 NS07941-06	30,006
STEPHENS, GEORGE M.	SKIN ELECTRODE ELECTRORETINOGRAM: ITS VALUE FOR VER	VISA	1R01 EY01320-01A1	37,988
SWAN, KENNETH G.	VASOACTIVE AGENTS IN SPLANCHNIC VISCERA OF PRIMATES	SGYA	1R01 HL18096-01	24,620
VITALE, LEONARD F.	COOPERATIVE STUDY OF CHILDREN'S CANCER	CCI	2R10 CA12637-04	51,951
WILSON, ROBERT G.	EFFECTS OF CARCINOSTATIC COMPOUNDS ON RNA SYNTHESIS	ET	5R01 CA13161-03	24,149
YANG, CHUNG S.	CYTCHROME P-450 AND CARCINOGEN ACTIVATION	BIO	1R01 CA16788-01	35,314
ORGANIZATION TOTAL	35 1,880,330			
<b>NEWARK BETH ISRAEL MEDICAL CENTER ZIP CODE 07112</b>				
GOLDMAN, LESTER M.	GENERAL RESEARCH SUPPORT GRANT	NSS	1S01 RR05763-01	15,856
KIRSCHNER, MARVIN A.	ANDROGEN-ESTROGEN PRODUCTION RATES IN BREAST CANCER	END	5R01 CA14296-03	31,073
PARSONNET, VICTOR	POD CATHETER: CARDIAC APPLICATIONS	TEC	5R01 HL13057-06	31,244
PARSONNET, VICTOR	IMPROVEMENT OF ELECTRODES IN IMPLANTED PACEMAKERS	SGYA	5R01 HL15247-03	56,067
ORGANIZATION TOTAL	4 134,240			
<b>RUTGERS UNIVERSITY ZIP CODE 07102</b>				
HALL, JAMES C.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07059-10	38,230
HALL, STAN S.	GLYOXALASE I MECHANISM. TUMOR - GROWTH INHIBITORS	BIO	3R01 CA12984-03S1	1,922
JORDAN, FRANK	STUDY OF THIAMINE PYROPHOSPHATE AND MG(II) ENZYMES	BBCA	5R01 AM17495-02	27,342
JORDAN, FRANK	TOTAL APPROACH TO NUCLEOSIDE CONFORMATIONAL ANALYSIS	BBCB	3R01 GM19338-01A2S1	2,750
ORGANIZATION TOTAL	4 70,244			
<b>NEW BRUNSWICK</b>				
<b>RUTGERS UNIVERSITY ZIP CODE 08903</b>				
AMAREL, SAUL	SPECIAL RESEARCH RESOURCE: COMPUTERS IN BIOMEDICINE	COM	2P07 RR00643-04	395,244
BARFIELD, RONALD J.	ENDOCRINE & NEURAL BASES OF BEHAVIOR	EXP	5R01 HD04484-05	24,350
BISHOP, DAVID H.	TRANSCRIPTION AND REPLICATION OF ANIMAL RNA VIRUSES	VR	2R01 AI10692-04	91,673
BROWN, HARRY D.	MICROCALORIMETRY FOR CLINICAL CHEMISTRY	BBCA	7R01 GM22679-01	50,616
CHAMPE, SEWELL P.	GENETIC CONTROL OF BACTERIOPHAGE DEVELOPMENT	GEN	2R01 GM17020-07	73,579
COLLIER, GEORGE H.	NUTRITIONAL AND BIOCHEMICAL BASES OF ACTIVITY	EXP	5R01 HD03279-10	50,184
COUSINS, ROBERT J.	ZINC AND THE SYNTHESIS OF ZINC BINDING PROTEIN	NTN	1R01 AM18555-01	27,800
COUSINS, ROBERT J.	METABOLISM AND BIOCHEMICAL ACTIONS OF CADMIUM	TOX	5R01 ES00777-04	24,962
DAVIS, FRANK F.	NONIMMUNOGENIC ENZYMES FOR THERAPEUTIC USE	BIO	3R01 GM20946-01S1	2,627
DENNEY, DONALD B.	REACTIONS OF ORGANOPHOSPHORUS COMPOUNDS	MCHB	2R01 CA10737-11	56,579
FALK, JOHN L.	STUDY OF BEHAVIOR IN FLUID BALANCE AND HYPERTENSION	GMB	5R01 AM14180-06	40,278
FRANKEL, HARRY M.	PHYSIOLOGICAL REGULATION DURING CHRONIC HYPERTHERMIA	AFY	1R01 HL17352-01	31,265
GANDELMAN, RONALD J.	AGGRESSIVE BEHAVIOR OF PREGNANT AND LACTATING MICE	EXP	2R01 HD06863-03	17,422
GREEN, JAMES W.	PROSTAGLANDIN AND CA2O INTERACTIONS ON NA0 TRANSPORT	PHY	5R01 AM15534-03	29,599
GRIMINGER, PAUL	EFFECT OF AGE AND TRAUMA ON NUTRIENT REQUIREMENTS	NTN	1R01 AG00160-01	19,651
GROB, GERALD N.	HISTORY OF MENTAL HOSPITALS IN THE UNITED STATES TO 1900	HLS	5R01 LM02306-06	15,956
HERMAN, ROBERT	IMMUNOLOGICAL ASPECTS OF RODENT MALARIA	TMP	5R01 A111386-02	44,640
KAPLAN, MURRAY L.	EARLY NUTRITION-DEVELOPMENT OF OBESITY	NTN	1R01 AM18557-01	26,745
LAMPEN, J OLIVER	CELL PERMEABILITY AND INVERTASE BIOSYNTHESIS	MBG	5R01 AI04572-14	95,927
LEATHAM, JAMES H.	OVARIAN INVOLUTION IN AGING	REB	5R01 HD07972-02	32,936
MAC KAY, VIVIAN L.	ENZYMES, GENES, AND REGULATION OF RECOMBINATION	GEN	1R01 GM22149-01	38,422
MANDELES, STANLEY	DETERMINATION OF VIRUS NUCLEIC ACID SEQUENCES	BIO	1R01 GM19148-01A1	41,813
MOSS, ROBERT A.	SYNTHESES OF ELAIOMYCIN AND OTHER AZOXYALKANES	MCHA	5R01 CA14912-10	37,248
NEIMARK, EDITH D.	DEVELOPMENT OF MNEMONIC STRATEGIES	EXP	5R01 HD01725-09	21,178
NIEDERMAN, ROBERT A.	MOLECULAR ASPECTS OF MEMBRANE DEVELOPMENT	MBG	5R01 GM20367-03	47,188
OLSON, WILMA A.	NUCLEIC ACID CONFORMATION AND PROPERTIES	BBCA	5R01 GM20861-02	19,458
OTHMER, HANS G.	DYNAMIC PATTERN IN CHEMICALLY-REACTING SYSTEMS	COM	1R01 GM21558-01	19,812
PAGE, CHARLES H.	POSTURAL REGULATION OF LOAD COMPENSATING REFLEXES	PHY	7R01 NS12262-01	35,753
PORETZ, RONALD D.	DEVELOPMENT OF A TYPE B PHYTOHEMAGGLUTININ	PC	5R01 A111903-03	42,804
PORETZ, RONALD D.	STRUCTURAL ANALYSIS OF CELL SURFACE CARBOHYDRATES	PC	1R01 CA17193-01	57,990
PRAMER, DAVID	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07058-10	65,607

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW JERSEY—Continued</b>				
PRICE, CARL A.....	CONTROL OF PROTEIN SYNTHESIS IN DEVELOPING ORGANELLES.....	CBY	5R01 HD05602-05	58,914
SCHAFFNER, CARL P.....	CHEMISTRY OF POLYENE ANTIFUNGAL ANTIBIOTICS.....	MCMA	5R01 AI02095-17	70,514
SCHAFFNER, CARL P.....	POLYENE MACROLIDES - PHARMACOLOGY AND TOXICOLOGY.....	TOX	1R01 AI12602-01	104,651
SCHUGAR, HARVEY J.....	BIOINORGANIC AND MEDICAL ASPECTS OF CU-CYSTINATE.....	MCMB	5R01 AM16412-02	28,925
TEWARI, RAM P.....	IMMUNOGENICITY OF HISTOPLASMA RIBOSOMES AND RNA.....	BM	2R01 AI11094-03A1	39,251
WITKIN, EVELYN M.....	INDUCED MUTATIONS IN BACTERIA.....	GEN	2R01 AI10778-04	62,666
ORGANIZATION TOTAL	37	1,944,227		
<b>PISCATAWAY</b>				
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY—RUTGERS MEDICAL SCHOOL ZIP CODE 08854				
BRECKENRIDGE, BRUCE M.....	CYCLIC AMP AND METABOLIC CONTROL IN THE NERVOUS SYSTEM.....	PPR	5R01 NS10975-08	51,304
BROSTROM, CHARLES O.....	CONTROL OF CYCLIC NUCLEOTIDE PHOSPHODIESTERASE.....	BIO	5R01 NS11340-02	25,014
BROWNING, EDWARD T.....	METABOLIC REGULATION IN GLIOMA CELLS.....	NEUB	5R01 NS08436-05	28,676
CRANE, ROBERT K.....	BRUSH BORDER PHASE OF DIGESTIVE-ABSORPTIVE FUNCTION.....	GMA	5R01 AM10696-09	76,181
DUBIN, DONALD T.....	R-RNA & RIBOSOME SYNTHESIS IN BACTERIA & ANIMAL CELLS.....	MBY	5R01 GM14957-08	47,290
EDELMAN, NORMAN H.....	DETERMINANTS OF THE VENTILATORY RESPONSE TO HYPOXIA.....	CVA	5R01 HL16022-02	31,649
EGGER, M DAVID.....	NEUROANATOMICAL INVESTIGATIONS OF SPINAL INTERNEURONS.....	NEUB	1R01 NS12261-01	17,104
EICHHOLZ, ALEXANDER.....	STUDY OF THE TRANSPORT OF SUGARS IN THE INTESTINE.....	PHY	1R01 AM17874-01	25,113
GELLER, HERBERT M.....	MECHANISMS OF INTERNEURONAL COMMUNICATION IN CULTURE.....	NEUA	5R01 NS11295-02	20,997
GHOSH, BIJAN K.....	PHYSIOLOGICAL ROLE OF MEMBRANE BOUND ALKALINE PHOSPHATES.....	BIO	5R01 GM21712-02	28,725
GOCKE, DAVID J.....	VIRAL HEPATITIS: ROLE/AUSTRALIA ANTIGEN & OTHER AGENTS.....	VR	5R01 AI11593-03	56,753
HOLOWCZAK, JOHN A.....	TRANSCRIPTION & TRANSLATION IN POX VIRUS INFECTED CELLS.....	VR	2R01 CA11027-07	47,692
MALAMED, SASHA.....	ADRENAL CELLS IN VITRO: ULTRASTRUCTURE AND STEROIDS.....	END	5R01 AM16833-02	22,033
MC ALLISTER, WILLIAM T.....	REGULATION OF VIRAL GENE EXPRESSION.....	GEN	1R01 GM21783-01	23,674
MORRIS, N RONALD.....	BASE ANALOGS AND TEMPLATE ACTIVITY.....	ET	5R01 CA10665-08	61,706
PROCKOP, DARWIN J.....	BIOCHEMISTRY OF NORMAL AND DISEASED CONNECTIVE TISSUE.....	AMP	5P01 AM16516-04	214,592
RASKOVA, JANA.....	IMMUNOPATHOLOGY OF CHRONIC RENAL FAILURE.....	PTHA	5R01 AM16872-02	28,271
ROBINSON, ROBERT J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05576-11	132,915
ROISEN, FRED J.....	STUDIES ON NERVE DEVELOPMENT.....	NEUB	5R01 NS11299-02	45,106
SCHLESINGER, R WALTER.....	TOGAVIRUS REPLICATION IN INSECT AND VERTEBRATE CELLS.....	VR	5R22 AI05920-13	110,910
SHEA, STEPHEN M.....	GLOMERULAR PATHOLOGY FOLLOWING PARTIAL NEPHRECTOMY.....	PTHA	5R01 AM13495-06	50,875
SHIMAMURA, TETSUO.....	PATHOLOGY OF EXPERIMENTAL RENAL MEDULLARY LESIONS.....	PTHA	5R01 AM14411-06	28,995
STOLLAR, VICTOR.....	METABOLISM AND BIOCHEMISTRY OF CULTURED MOSQUITO CELLS.....	TMP	5R01 AI11290-02	21,673
STROHL, WILLIAM A.....	VIRAL CARCINOGENESIS AND LATENCY.....	VR	5R01 CA08851-12	93,955
TAKAHASHI, MARK T.....	REGULATION OF THREONINE-SENSITIVE ASPARTOKINASE ACTIVITY.....	BBCB	2R01 GM18628-04	45,769
WEISS, HARVEY R.....	NEW TECHNIQUE FOR REGIONAL O2 CONSUMPTION OF HEART.....	CVB	5R01 HL16134-02	29,191
WOLFF, DONALD J.....	FUNCTION OF A BRAIN CALCIUM-BINDING PROTEIN.....	NEUB	5R01 NS11252-02	23,015
ORGANIZATION TOTAL	27	1,389,178		
<b>PRINCETON</b>				
PRINCETON UNIVERSITY ZIP CODE 08540				
ALBERTS, BRUCE M.....	DNA-PROTEIN INTERACTIONS IN DNA-REPLICATION CONTROL.....	PC	3R01 GM14927-08S1	9,120
ALBERTS, BRUCE M.....	MECHANISMS OF GROWTH CONTROL IN MAMMALIAN CELLS.....	MBY	5R01 HD06855-03	45,039
APPLEBURY, MEREDITH L.....	PHOTORECEPTION AND TRANSDUCTION IN VISION.....	BBCA	1R01 EY01542-01	48,189
BONNER, JOHN T.....	THE ROLE OF CYCLIC AMP IN DEVELOPMENT.....	MBY	2R01 GM17856-04	39,441
CAMPBELL, BYRON A.....	ANIMAL MODELS OF DECLINING MEMORY IN THE AGED.....	EXP	1R01 AG00092-01	67,895
COALE, ANSLEY J.....	POPULATION RESEARCH CENTER.....	HDPR	1P01 HD08008-01A1	107,682
COHEN, EDWARD H.....	ORGANIZATION AND EVOLUTION OF DROSOPHILA DNA.....	GEN	1R01 GM21786-01	67,300
COX, EDWARD C.....	MUTATOR GENES OF ESCHERICHIA COLI.....	GEN	5R01 AI09392-06	68,672
FRESCO, JACQUES R.....	MACROMOLECULAR ASPECTS OF RNA STRUCTURE AND FUNCTION.....	BBCA	5R01 GM07654-15	97,051
FRESCO, JACQUES R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07057-10	55,914
GILVARG, CHARLES.....	PEPTIDE UTILIZATION.....	MCB	5R01 AM10336-10	45,733
KIRSCHNER, MARC W.....	BIOCHEMICAL STUDIES OF MITOSIS USING XENOPUS EGGS.....	CBY	5R01 GM19667-03	43,414
LAEMMLI, ULRICH K.....	HEAD MATURATION AND DNA PACKAGING OF BACTERIOPHAGE T4.....	PC	2R01 GM18776-04	46,215
LANGRIDGE, ROBERT.....	MOLECULAR STRUCTURES IN NORMAL AND TUMOR CELLS.....	BBCB	1R01 GM21582-01	101,433
LANGRIDGE, ROBERT.....	SPECIAL RESEARCH RESOURCE FOR BIOMOLECULAR GRAPHICS.....	COM	2P07 RR00578-05A1	223,937
LEVINE, ARNOLD J.....	DNA REPLICATION IN SV40 INFECTED CELLS.....	VR	5R01 CA11049-07	45,690

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW JERSEY—Continued</b>				
LEVINE, ARNOLD J. ....	REGULATION OF DEOXYPYRIMIDINE KINASES BY TUMOR VIRUSES.....	BIO	1R01 CA16380-01	19,384
NEWTON, AUSTIN.....	REGULATION OF DEVELOPMENT IN CAULOBACTER CRESCENTUS.....	MBY	1R01 GM22299-01	50,764
NORTON, JACK R.....	A GENERAL CATALYTIC SYNTHESIS OF ANTICANCER LACTONES.....	MCHA	1R01 CA18546-01	43,098
SANDERS, THOMAS G.....	Y CHROMOSOME STRUCTURE AND REGULATION IN DROSOPHILA.....	GEN	5R01 GM20770-02	43,299
SCHWARTZ, JEFFREY.....	THE CYCLIZATION OF METAL-COMPLEXED POLYOLEFINS.....	MCHB	5R01 GM19658-03	38,817
SHERRICK, CARL E.....	THE ROLE OF THE HAPTIC SYSTEM IN COMMUNICATION.....	CMS	5R01 NS04755-12	105,362
SPIRO, THOMAS G.....	METAL CENTERS IN BIOLOGICAL SYSTEMS.....	MCHB	5R01 GM13498-10	64,012
SPIRO, THOMAS G.....	RAMAN SPECTRA OF HEME PROTEINS AND RELATED MOLECULES.....	BBCB	5R01 HL12526-06	54,724
STEINBERG, MALCOLM S.....	CHEMISTRY AND MEASUREMENT OF INTERCELLULAR ADHESION.....	MBY	2R01 CA13605-04	121,460
TAYLOR, EDWARD C.....	CHEMICAL AND BIOCHEMICAL STUDIES OF PTERIDINES.....	MCHA	2R01 CA12876-04	108,196
WEVER, ERNEST G.....	STUDY OF THE NATURE OF HEARING.....	CDR	2P01 NS03798-13	191,414
WIPKE, W TODD.....	BIOGENETIC-LIKE CYCLIZATIONS OF MACROCYCLIC POLYENES.....	MCHA	1R01 GM20510-01	22,545
WITMAN, G BODO, III.....	MOLECULAR MECHANISM OF FLAGELLA MOTILITY AND ASSEMBLY.....	CBY	1R01 GM21586-01	67,654
WORCEL, ABRAHAM.....	CHROMOSOME STRUCTURE IN INTERPHASE AND MITOSIS.....	CBY	1R01 GM21574-01	87,328
ORGANIZATION TOTAL	30	2,130,782		
<b>SEWELL</b>				
GLoucester County College	ZIP CODE 08080			
FISCHER, KAREN M.....	GENETIC RELATEDNESS IN MULTIPLE BIRTHS.....	HED	1R01 HD09438-01	9,100
ORGANIZATION TOTAL	1	9,100		
<b>SKILLMAN</b>				
NEW JERSEY STATE DEPARTMENT OF INSTITUTIONS AND AGENCIES-NEW JERSEY NEUROPSYCHIATRIC INSTITUTE	ZIP CODE 08540			
HADDAD, RAEF K.....	CNS TERATOLOGY AND MENTAL DEFICIENCY.....	EXP	5R01 HD08346-02	70,174
ORGANIZATION TOTAL	1	70,174		
<b>SOUTH ORANGE</b>				
SETON HALL UNIVERSITY	ZIP CODE 07079			
ANDER, PAUL.....	COION INTERACTIONS WITH BIOLOGICAL POLYELECTROLYTES.....	MCHB	1R01 GM21234-01	16,808
ORGANIZATION TOTAL	1	16,808		
<b>TEANECK</b>				
FAIRLEIGH DICKINSON UNIVERSITY	ZIP CODE 07666			
ALFANO, MICHAEL C.....	NUTRITIONAL MODULATION OF ORAL MUCOSAL PERMEABILITY.....	DEN	1R23 DE04228-01	10,968
TOMASELLI, VINCENT P.....	FAR-INFRARED INVESTIGATION OF COLLAGEN.....	BBCB	5R01 AM17267-02	58,712
ORGANIZATION TOTAL	2	69,680		
<b>TRENTON</b>				
TRENTON STATE COLLEGE	ZIP CODE 08625			
HINCK, HARRIET M.....	A MULTIVARIATE ANALYSIS OF MORTALITY DIFFERENTIALS.....	POP	1R01 HD08852-01	8,120
ORGANIZATION TOTAL	1	8,120		
STATE TOTAL	154	8,602,597		
<b>NEW MEXICO</b>				
<b>ALBUQUERQUE</b>				
UNIVERSITY OF ALBUQUERQUE	ZIP CODE 87140			
PFEIFER, CHARLES H, JR.....	MINORITY STUDENT BIOMEDICAL RESEARCH TRAINING PROGRAM.....	GRS	5S06 RR08108-03	65,026
ORGANIZATION TOTAL	1	65,026		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW MEXICO—Continued</b>				
<b>UNIVERSITY OF NEW MEXICO</b>	<b>ZIP CODE 87131</b>			
ALLEN, FRITZ S.....	BASE SITES OF ANTITUMOR ANTIBIOTIC DNA BINDINGS BY CD.....	BBCA	5R01 CA14495-02	30,556
ANDERSON, ROBERT E.....	RADIATION INJURY IN SUBPOPULATIONS OF LYMPHOCYTES.....	RAD	5R01 CA13805-03	28,869
ANDERSON, ROBERT E.....	IMMUNE SURVEILLANCE IN RADIATION CARCINOGENESIS.....	RAD	5R01 CA14270-03	36,899
ANDERSON, ROBERT E.....	COMPUTER-ASSISTED ANALYSIS OF IRRADIATED LYMPHOCYTES.....	RAD	5R01 CA15593-02	42,445
CUSHING, ALICE H.....	PATHOGENIC E. COLI IN SPORADIC INFANTILE DIARRHEA.....	BM	1R22 AI12216-01	55,053
EATON, R. PHILIP.....	LIPOPROTEIN-CARBOHYDRATE METABOLISM.....	MET	2R01 HL12085-07A1	56,397
EDWARDS, W. STERLING.....	STUDY OF RADIOFREQUENCY HEAT IN CANCER THERAPY.....	RAD	5R01 CA15833-02	28,625
GALEY, WILLIAM R. JR.....	MECHANISMS OF PANCREATIC ELECTROLYTE AND H <sub>2</sub> O SECRETION.....	PHY	1R01 AM17843-01	32,093
HOLLSTEIN, ULRICH.....	BIOSYNTHESIS OF PHENAZINES.....	MCHA	5R01 AO9598-06	18,602
HOLLSTEIN, ULRICH.....	ACTINOMYCIN ANALOG WITH PHENAZINE SKELETON.....	MCHA	1R01 CA16344-01	11,713
HURWITZ, LEON.....	ACTION OF VASCULAR AND OTHER SMOOTH MUSCLE INHIBITORS.....	PHRA	5R01 HL16179-02	52,347
JOHNSON, PEDER J.....	INFLUENCE OF STRATEGIES IN CHILDREN'S COGNITIVE FUNCTION.....	DBR	2R01 HD03390-07	19,668
KELLEY, ROBERT O.....	BIOLOGY OF THE AGING CELL SURFACE.....	MBY	1R01 AG00191-01	40,654
KLIGERMAN, MORTON M.....	PRECLINICAL STUDIES FOR PION RADIOTHERAPY.....	CAP	5P01 CA14052-03	820,104
KLIGERMAN, MORTON M.....	CANCER RESEARCH AND TREATMENT CENTER PROGRAM.....	CAP	3P01 CA16127-01S1	26,458
KLIGERMAN, MORTON M.....	CANCER RESEARCH AND TREATMENT CENTER PROGRAM.....	CAP	5P01 CA16127-02	1,125,536
KLINGLER, EUGENE L. JR.....	RADIATION NEPHRITIS IN A NONHUMAN PRIMATE.....	RAD	5R01 CA14771-02	61,963
KOGOMA, TOKIO.....	DNA REPLICATION IN BACTERIA: REGULATORY MUTANTS.....	MBC	1R01 GM22092-01	28,936
LOTFIELD, ROBERT B.....	PROTEIN BIOSYNTHESIS.....	BIO	5R01 CA08000-11	54,056
MESSNER, RONALD P.....	ROLE OF LYMPHOCYTE ANTIGEN RECEPTORS IN COLLAGEN DISEASE.....	IMB	5R01 AM13789-06	36,250
NAPOLITANO, LEONARD M.....	THE FINE STRUCTURE AND LOCALIZATION OF CHOLESTEROL.....	PTHA	5R01 AM09432-11	58,024
NAPOLITANO, LEONARD M.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05583-11	205,235
OMDAHL, JOHN L.....	EFFECT OF MINERALS ON ACTION OF VITAMIN D.....	GMB	5R01 AM16905-02	26,637
POLLAY, MICHAEL.....	TRANSCAPILLARY EXCHANGE IN EXPERIMENTAL BRAIN TUMORS.....	PTHA	5R01 CA14910-03	49,291
REYES, PHILIP.....	STUDY OF A PHOSPHORIBOSYLTRANSFERASE FROM LEUKEMIC CELLS.....	ET	5R01 CA15036-03	39,213
SAIKI, JOHN H.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA12213-04	105,747
SAUNDERS, GEORGE C.....	MATURATION AND COMPONENT ACTIVITY OF IMMUNE SYSTEMS.....	IMB	5R01 AI11844-03	45,741
SCALLEN, TERENCE J.....	LIPID METABOLISM IN BIOLOGICAL SYSTEMS.....	MET	2R01 AM10628-10	100,538
SCALLEN, TERENCE J.....	CHOLESTEROL REGULATION BY HMG-COA REDUCTASE.....	MET	5R01 HL16796-02	54,712
TOKUDA, SEI.....	IMMUNOBIOLOGY OF THE H-Y (MALE) ANTIGENIC SYSTEM.....	IMB	5R01 AI11560-02	24,554
TOKUDA, SEI.....	IMMUNOLOGICAL ENHANCEMENT OF SARCOMA I TUMOR CELLS.....	IMB	5R01 CA10129-09	34,271
TOKUDA, SEI.....	BIOMEDICAL SCIENCES ADVANCEMENT PROGRAM.....	GRS	1S06 RR08139-01	264,722
TUNG, KENNETH S.....	EFFECT OF SPERM ANTIGEN ON REPRODUCTIVE BIOLOGY.....	REB	2R01 HD07591-03A1	52,651
VANDERJAGT, DAVID L.....	COMPARATIVE ENZYMOLOGY OF THE GLYOXALASE SYSTEM.....	BIO	5R01 CA11850-05	26,664
VANDERJAGT, DAVID L.....	GLUTATHIONE METABOLISM IN NORMAL AND ABNORMAL TISSUE.....	BIO	1R01 CA17298-01	21,617
WATERMAN, ROBERT E.....	STUDIES OF HUMAN SECONDARY PALATE FORMATION.....	DEN	5R01 DE03897-02	32,179
WATTS, RICHARD S.....	EXTERNAL ISOTOPE ASSAY OF ATHEROSCLEROSIS.....	RAD	5R01 HL14826-03	12,061
WILLIAMS, RALPH C. JR.....	STUDIES OF AUTOANTIBODIES AND IMMUNOGLOBULINS.....	IMB	5R01 AM13690-07	60,557
WILLIAMS, RALPH C. JR.....	INTERACTIONS OF CELLULAR AND HUMORAL IMMUNITY.....	IMB	5R01 AM13824-06	60,974
WOOD, STEPHEN C.....	RESPIRATORY FUNCTION REGULATION IN NUCLEATED RED CELLS.....	HEM	1R01 HL18026-01	12,379
ORGANIZATION TOTAL	40	3,894,991		

## LAS VEGAS

<b>NEW MEXICO HIGHLANDS UNIVERSITY</b>	<b>ZIP CODE 87701</b>			
ANSELMO, VINCENT C.....	COORDINATED RESEARCH AND TRAINING PROGRAM.....	GRS	5S06 RR08066-04	156,100
ORGANIZATION TOTAL	1	156,100		

## UNIVERSITY PARK

<b>NEW MEXICO STATE UNIVERSITY</b>	<b>ZIP CODE 88001</b>			
BIRNBAUM, EDWARD R.....	LANTHANIDE IONS AS PROBES OF PROTEIN STRUCTURE.....	BBCB	5R01 AM16582-03	41,244
DARNALL, DENNIS W.....	SUBUNIT INTERACTIONS AND CONTACT SITES IN PROTEINS.....	BBCA	1R01 GM22241-01	24,134
HAGEMAN, JAMES H.....	PROTEASES AND PROTEIN TURNOVER IN BACTERIAL SPORULATION.....	MBC	5R01 GM19643-03	21,865
KUEHN, GLENN D.....	CELL CYCLE STUDIES IN PHYSARUM POLYCEPHALUM.....	CBY	2R01 GM18538-04	32,000
MC CARTHY, CHARLOTTE M.....	CELL DIVISION IN MYCOBACTERIUM AVIUM.....	BM	5R01 AI11171-03	21,286
O'BRIEN, ROBERT T.....	HEALTH SCIENCE RESEARCH FOR MINORITY STUDENTS.....	GRS	1S06 RR08136-01	180,400
VILLA, VICENTE D.....	RIBOSOME-MEMBRANE INTERACTION IN MITOCHONDRIA.....	MBC	5R01 GM20449-02	26,071

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW MEXICO—Continued</b>				
WILKINS, RALPH G.....	KINETIC STUDIES OF HEMERYTHRIN REACTIONS.....	BBCB	1R01 HL17828-01	35,425
ORGANIZATION TOTAL	8 382,425			
STATE TOTAL	50 4,498,542			
<b>NEW YORK</b>				
<b>ALBANY</b>				
<b>NEW YORK STATE DEPARTMENT OF HEALTH ZIP CODE 12237</b>				
BERNS, DONALD S.....	BILIPROTEIN AND CHLOROPHYLL-LIPID MEMBRANE STUDIES.....	BBCB	1R01 GM22247-01	39,062
DODDS, W JEAN.....	COMPARATIVE STUDY OF COAGULATION AND VASCULAR DISEASE.....	HEM	5R01 HL09902-10	149,907
EDWARDS, MERCEDES R.....	ULTRASTRUCTURE AND PATHOGENESIS OF INFECTIOUS AGENTS.....	BM	5R01 AI08119-06	21,520
FENTON, JOHN W, II.....	STUDY OF HUMAN THROMBIN.....	HEM	2R01 HL13160-05A1	41,838
FLAHERTY, LORRAINE.....	IMMUNOGENETICS AND DIFFERENTIATION.....	ALY	1R01 AI12603-01	41,434
GREENWALD, PETER.....	CANCER EPIDEMIOLOGY PROGRAM GRANT.....	CAP	2P01 CA12707-04	327,941
JANERICH, DWIGHT T.....	HALF-SIBLING STUDY OF ANENCEPHALY AND SPINA BIFIDA.....	EDC	5R01 HD07700-02	26,023
KUSAMA, HIDEO.....	PERMEABILITY FACTOR OF PSEUDOMONAS AERUGINOSA.....	BM	5R01 AI10998-03	3,500
LAWSON, WILLIAM B.....	ENZYME MODIFICATION WITH BIFUNCTIONAL INHIBITORS.....	BIO	5R01 AM05299-14	41,807
LAWSON, WILLIAM B.....	ENZYMES OF BLOOD COAGULATION AND FIBRINOLYSIS.....	HEM	5R01 HL15887-02	30,077
MALEY, GLADYS F.....	REGULATORY PROCESSES AFFECTING ENZYME ACTIVITY.....	BIO	5R01 GM20371-02	9,000
MEUWISSEN, HILAIRE J.....	ADENOSINE DEAMINASE DEFICIENCY IN IMMUNOLOGICAL DISEASE.....	ALY	5R01 AI11717-02	48,266
MITCHELL, DOUGLAS G.....	DETERMINATION OF TRACE METALS IN BIOLOGICAL SAMPLES.....	MCHB	5R01 GM20431-02	24,998
PLUMMER, THOMAS H, JR.....	COMPARATIVE STUDIES ON HUMAN CARBOXYPEPTIDASES.....	PC	2R01 GM11764-10	31,516
POLLARA, BERNARD.....	SPECIFICITY OF HUMAN NEPHROTOXIC ANTIGENS.....	IMB	9R01 AM18158-05	94,685
POLLARA, BERNARD.....	SPECIFICITY OF HUMAN NEPHROTOXIC ANTIGENS.....	IMB	3R01 HL13389-04S1	25,707
VANDERLINDE, RAYMOND E.....	OPTIMIZED INTERLABORATORY ENZYME ASSAYS: LDH, ASPAT.....	BIO	3R01 GM20878-01S1	1,693
VIANNA, NICHOLAS J.....	EPIDEMIOLOGICAL STUDY OF LYMPHOPROLIFERATIVE DISORDERS.....	EDC	5R01 CA13893-03	163,025
WARREN, WILLIAM A.....	ENZYMATIC AND NONENZYMATIC REACTIONS OF GLYOXYLATE.....	PC	5R01 AM17551-03	27,090
WARREN, WILLIAM A.....	FACTORS IN MAST TUMOR IMPLANTATION AND GROWTH.....	PTHB	5R01 CA17099-02	61,312
WHALEN, ROBERT P.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05649-09	118,924
ORGANIZATION TOTAL	21 1,329,325			
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE ZIP CODE 12229</b>				
BELMONT, LILLIAN.....	BIRTH ORDER, FAMILY SIZE AND INTELLIGENCE.....	EDC	2R01 HD06808-03	33,438
BROCKERHOFF, HANS.....	ROLE OF CHOLESTEROL IN BIOLOGICAL MEMBRANES.....	BBCB	1R01 GM21875-01	56,045
STEADMAN, HENRY J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05748-03	23,474
ORGANIZATION TOTAL	3 112,957			
<b>STATE UNIVERSITY OF NEW YORK AT ALBANY ZIP CODE 12222</b>				
BAGLIONI, CORRADO.....	STRUCTURE AND SYNTHESIS OF IMMUNOGLOBULINS.....	ALY	2R01 AI11887-02	105,793
BAGLIONI, CORRADO.....	SELECTIVE REPLICATION OF HEMOGLOBIN GENES.....	GEN	7R01 HL17710-01	24,649
BAGLIONI, CORRADO.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07122-07	40,476
BERGER, EDWARD M.....	GENETIC CONTROL OF PROTEIN SYNTHESIS IN EUKARYOTES.....	GEN	1R01 GM22866-01	51,472
CHRISTIAN, JOHN J.....	REGULATION OF SPERMATOGENESIS IN WHITE-FOOTED MICE.....	REB	5R01 HD08411-02	41,430
DAS, TARA P.....	THEORY OF ELECTRONIC PROPERTIES OF METALLOPROTEINS.....	BBCB	2R01 HL15196-03	32,932
EDWARDS, CHARLES.....	PHYSIOLOGY OF MUSCLE FUNCTIONS.....	NEUB	5R01 NS07681-08	41,566
EDWARDS, DAVID L.....	MOLECULAR GENETICS OF MEMBRANE ASSEMBLY IN NEUROSPORA.....	GEN	2R01 GM19410-04	63,576
HIRSCH, HELMUT V B.....	DEVELOPMENT AND FUNCTIONS OF THE VISUAL CORTEX.....	VISB	5R01 EY01268-03	36,163
IZZARD, COLIN S.....	CONTROL OF CALCIUM LEVELS IN FIBROBLAST MOTILITY.....	CBY	5R01 GM20582-02	51,251
JACKLET, JON W.....	PERIPHERAL AND CENTRAL MODULATION OF SPECIFIC NEURONS.....	PHY	2R01 NS08443-07	43,320
KING, TSOO E.....	BIOENERGETICS OF AGING: FACTS AND MECHANISMS.....	BIO	1R01 AG00069-01	59,696
KING, TSOO E.....	RECONSTITUTION OF MITOCHONDRIAL RESPIRATORY CHAIN.....	BIO	2R01 GM16767-07	43,520
KING, TSOO E.....	BIOENERGETIC APPARATUS IN HEART MITOCHONDRIA.....	BIO	2R01 HL12576-07	79,306
MILLIS, ALBERT J.....	REGULATION OF HUMAN AND MAMMALIAN CELL PROLIFERATION.....	CBY	1R01 HD09515-01	49,980
RIKMENSPOL, ROBERT.....	CONTROL OF SPERM MOTILITY.....	REB	1R01 HD08752-01	47,034
SARMA, RAMASWAMY H.....	MAGNETIC RESONANCE STUDIES OF BIOLOGICAL INTERACTIONS.....	BBCB	5R01 CA12462-05	43,769
SAUNDERS, JOHN W, JR.....	CONTROL OF LIMB DEVELOPMENT AND DEFORMITY.....	CBY	5R01 HD07390-02	80,305

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
SCHOLES, CHARLES P.	ELECTRON NUCLEAR DOUBLE RESONANCE OF HEME	BBCB	1R01 AM17884-01	47,758
SHUB, DAVID A.	REGULATION OF DEVELOPMENT OF BACTERIOPHAGE SP01	GEN	5R01 AI11323-03	41,057
ORGANIZATION TOTAL	20 1,025,053			
<b>UNION COLLEGE AND UNIVERSITY SYSTEM—ALBANY MEDICAL COLLEGE ZIP CODE 12208</b>				
ALLEN, S. H.	PRODUCTION OF PROPIONIC ACID BY ORAL MICROORGANISMS	MBC	1R01 DE04284-01	25,920
BALINT, JOHN A.	METABOLISM OF PULMONARY SURFACTANT	PTHB	5R01 HL15273-03	81,836
BARRON, KEVIN D.	ENZYME HISTOCHEMISTRY OF AXON INJURY	NEUB	2R01 NS08735-07	35,904
BONDURANT, STUART	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00749-03	386,660
BONDURANT, STUART	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05394-14	176,909
BOURKE, ROBERT S.	TREATMENT OF MALIGNANT DISEASE OF THE BRAIN	ET	7R01 CA17516-01	54,949
BOURKE, ROBERT S.	TREATMENT OF MALIGNANT DISEASE OF THE BRAIN	ET	5R01 CA17516-02	97,549
COWGER, MARILYN L.	BIOENERGETICS OF AGING: FACTS AND MECHANISM	BIO	1R01 AG00070-01	44,362
COWGER, MARILYN L.	MECHANISM OF BILIRUBIN TOXICITY	GMA	5R01 HD05333-05	55,556
DOYLE, JOSEPH T.	PROGNOSTICATION BY COMPUTER-ANALYZED VECTORCARDIOGRAM	EDC	3R01 HL16403-01S1	5,829
DOYLE, JOSEPH T.	PROGNOSTICATION BY COMPUTER-ANALYZED VECTORCARDIOGRAM	EDC	5R01 HL16403-02	10,636
DUTTON, ROBERT E., JR.	CONTROL OF RESPIRATION AND BLOOD GASES	AFY	5R01 HL12564-06	63,130
FULLER, GENE B.	ESTROGEN-STIMULATED PROGESTERONE SYNTHESIS IN-VITRO	REC	7R01 HD09278-01	22,171
FURTH, EUGENE D.	THYROID STIMULATORS AND THYROID CYCLIC NUCLEOTIDES	END	5R01 AM16931-02	31,347
GOLBERG, LEON	COMPARATIVE ENVIRONMENTAL TOXICOLOGY	SSS	5P01 ES00226-09	296,799
HALL, CHARLES A.	TRANSCOBALAMIN II IN THE TRANSPORT OF VITAMIN B-12	GMA	5R01 HD05755-05	13,014
HAN, JAO-K	EXPERIMENTAL CARDIAC ARRHYTHMIAS	SRC	1R01 HL18796-01	54,368
HOOK, ERNEST B.	ENVIRONMENTAL FACTORS RELATED TO CHROMOSOME DAMAGE	GEN	1R01 ES01207-01	30,779
HOOK, ERNEST B.	MINOR BIRTH DEFECTS & NEED FOR ENVIRONMENTAL MONITORING	EDC	5R01 HD05755-05	14,299
HOOK, ERNEST B.	EPIDEMIOLOGY OF VOMITING IN PREGNANCY	EDC	1R01 HD09374-01	54,524
HORTON, JOHN	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA06594-13	147,377
HORTON, JOHN	CLINICAL CANCER EDUCATION PROGRAM	REC	1R25 CA17971-01	71,226
KENNEDY, MARGARET W.	LOCAL CONTROL OF PROGESTERONE LEVELS IN PREGNANCY	END	5R01 HD06579-03	31,038
KRASNEY, JOHN A.	MECHANISMS OF THE CARDIOVASCULAR RESPONSE TO ANOXIA	CVA	3R01 HL11982-06S1	1,409
LAM, KWOK-WAI	BIOCHEMISTRY AND CYTOLOGY OF SUBRETINAL FLUIDS	VISA	1R01 EY01464-01	42,268
LAM, KWOK-WAI	BIOCHEMICAL STUDIES OF ACID PHOSPHATASE 5	BIO	1R01 GM22260-01	33,983
LAWRENCE, DAVID A.	ANTIGEN-ACTIVATION OF THYMUS-DERIVED LYMPHOCYTES	IMB	1R01 AI12527-01	37,340
LEE, PEI-FEI	STUDY OF LASER-BASED SURGICAL PROCEDURE FOR GLAUCOMA	VISA	5R01 EY01047-02	51,780
LEE, PEI-FEI	COLLAGEN TUBES FOR AQUEOUS-VEINOUS SHUNT	VISA	1R01 EY01164-01A1	36,481
LOEGERING, DANIEL J.	MECHANISM OF RETICULOENDOTHELIAL FAILURE IN SHOCK	SGYA	1R01 HL18051-01	26,496
LOOSE, LELAND D.	MACROPHAGE MEDIATED MALARIAL IMMUNOSUPPRESSION	BM	7R01 AI12839-01	24,317
MALIK, ASRAR B.	PULMONARY VASCULAR ADJUSTMENTS IN CIRCULATORY COLLAPSE	CVA	1R01 HL17355-01A1	30,474
MC KNEALLY, MARTIN F.	SURGERY AND REGIONAL NERVE STIMULATION FOR LUNG CANCER	SGYA	1R01 CA17346-01	18,020
MC SHARRY, JAMES J.	BIOCHEMICAL ANALYSIS OF VIRAL ENVELOPE PROTEINS	VR	5R01 AI11877-02	4,363
POULOS, DENNIS A.	CENTRAL PROCESSING OF TEMPERATURE INFORMATION	CMS	5R01 NS11384-02	32,412
POWERS, SAMUEL R., JR.	ON-LINE COMPUTER STUDY OF THERAPY FOR HUMAN SHOCK	GMP	5P01 GM15426-08	195,814
REINECKE, ROBERT D.	STEREOPSIS AND MICROPTROPIA IN AMBLYOPIA PATHOGENESIS	VIS	5R01 EY00752-04	39,003
REINECKE, ROBERT D.	SUPPORT FOR CONFERENCE ON VISION	NSS	2R13 EY01371-02	10,492
RODGERS, JOHN B., JR.	USE OF THE GUT FOR THERAPY OF CORONARY ARTERY DISEASE	SGYB	1R01 HL17332-01	53,719
SABA, THOMAS M.	SYSTEMIC HOST DEFENSE FOLLOWING TRAUMA	SGYB	1R01 GM21447-01	45,831
SMITH, RICHARD S.	ULTRASTRUCTURAL STUDY OF OCULAR VASCULAR PERMEABILITY	VISA	5R01 EY00538-06	48,152
STROMINGER, NORMAN L.	NEUROANATOMICAL CIRCUITS OF SOMATIC MOTOR FUNCTION	NEUA	1R01 NS12208-01	30,025
THOMAS, WILBUR A.	CENTER FOR PREVENTION & TREATMENT OF ATHEROSCLEROSIS	SRC	5P17 HL14177-05	826,320
TSAPOGAS, MAKIS J.	THROMBOLYTIC THERAPY IN RETINAL VASCULAR OCCLUSION	VISA	5R01 EY00794-02	9,688
VAN HEUVEN, WICHARD A.	DEVELOPMENT OF SYSTEM TO STUDY OCULAR VASCULAR DYNAMICS	VISA	2R01 EY00791-04	53,555
ZWAAN, JOHAN	DEVELOPMENT AND GROWTH OF THE LENS	VISA	7R01 EY01694-01	82,644
ORGANIZATION TOTAL	46 3,540,948			
<b>BINGHAMTON</b>				
<b>STATE UNIVERSITY OF NEW YORK AT BINGHAMTON ZIP CODE 13901</b>				
CANTOR, NORMAN F.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07149-02	21,123
DONOVICK, PETER J.	NUTRITION, EXPERIENCE, CNS LESIONS: AGE AND BEHAVIOR	EXP	1R01 HD08498-01	13,000
FRANKEL, ARTHUR I.	REGULATION OF REPRODUCTION IN THE MALE	REB	2R01 HD04081-06	52,967



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
KULL, FREDRICK J.....	RNA-IODO-PROTEINACEOUS COMPLEXES OF THYROID.....	END	5R01 AM15292-02	23,165
PASTORE, RICHARD E.....	AUDITORY ATTENTION: TEMPORAL & FREQUENCY EFFECTS.....	CMS	1R01 NS10995-01A2	30,754
SCHRIER, EUGENE E.....	THE EFFECTS OF SALTS ON INTERACTIONS IN AQUEOUS MEDIA.....	BBCB	5R01 GM11762-11	44,081
SHRIFT, ALEX.....	SELENIUM TOXICITY: ROLE OF METHIONYL-TRNA SYNTHETASES.....	TOX	5R01 ES00807-02	35,678
ORGANIZATION TOTAL	7 220,768			
<b>BUFFALO</b>				
<b>CHILDREN'S HOSPITAL ZIP CODE 14222</b>				
BANNERMAN, ROBIN M.....	GENETIC ASPECTS OF HUMAN FETAL DEVELOPMENT.....	HDPB	5P01 HD06321-03	173,698
CORTNER, JEAN A.....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.....	CLR	5M01 RR00628-05	259,690
ELLIS, ELLIOT F.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05493-13	80,195
NETER, ERWIN.....	STUDY OF BACTERIAL TOXINS AND HEMAGGLUTINATION.....	BM	5R01 AI00658-19	30,564
WAGNER, HENRY R.....	NATURAL HISTORY OF CONGENITAL HEART DEFECTS—JOINT STUDY.....	TEC	5R01 HL09474-11	15,038
WAGNER, HENRY R.....	NATURAL HISTORY OF CONGENITAL HEART DEFECTS—JOINT STUDY.....	TEC	5R01 HL12542-07	27,916
ORGANIZATION TOTAL	6 587,101			
<b>INDIVIDUAL AWARD—SIEGEL, RUDOLPH E. ZIP CODE 14213</b>				
SIEGEL, RUDOLPH E.....	DOCTRINES OF IRREGULAR PULSE: GALEN TO THE 20TH CENTURY.....	SSS	2R01 LM00984-05	10,760
ORGANIZATION TOTAL	1 10,760			
<b>MEDICAL FOUNDATION OF BUFFALO ZIP CODE 14203</b>				
CODY, VIVIAN.....	MOLECULAR STRUCTURES OF THYROACTIVE COMPOUNDS.....	BBCA	2R01 AM15051-04	60,289
DORSET, DOUGLAS L.....	ELECTRON DIFFRACTION OF MEMBRANE PHOSPHOLIPIDS.....	BBCA	5R01 GM21047-02	52,577
DUAX, WILLIAM L.....	MOLECULAR STRUCTURE OF STEROIDS.....	BBCA	5R01 CA10906-08	147,626
DUAX, WILLIAM L.....	IONOPHORES TRANSPORT AND MEMBRANE STRUCTURE.....	BBCB	5R01 GM19684-03	75,898
DUAX, WILLIAM L.....	DISSEMINATION OF MOLECULAR DATA FOR BIOMEDICAL USE.....	BCM	1R01 LM02353-01	72,405
HAUPTMAN, HERBERT A.....	ULTRASTRUCTURE OF ANTIHYPERTENSIVE PROSTAGLANDINS.....	BBCA	5R01 HL15378-03	72,025
HAUPTMAN, HERBERT A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05716-04	71,133
OSAWA, YOSHIO.....	HUMAN DEVELOPMENT AND ESTROGEN BIOSYNTHESIS.....	END	5R01 HD04945-05	66,487
ORGANIZATION TOTAL	8 618,440			
<b>NEW YORK STATE DEPARTMENT OF HEALTH—ROSWELL PARK MEMORIAL INSTITUTE ZIP CODE 14263</b>				
AUNGST, C WILLIAM.....	CANCER CONTROL OUTREACH PROGRAM.....	CCG	1R18 CA16411-01A1	239,683
BARLOW, JOSEPH J.....	GYNECOLOGIC ONCOLOGY GROUP.....	CCI	5R10 CA12535-05	31,703
BERNACKI, RALPH J.....	PLASMA MEMBRANE RECOGNITION IN TUMOR CHEMOTHERAPY.....	ET	5R01 CA15757-02	29,489
BLESSING, JOHN A.....	GYNECOLOGIC ONCOLOGY GROUP STATISTICAL SERVICE.....	CCI	5R10 CA10378-09	163,986
BLOCH, ALEXANDER.....	DEVELOPMENT OF ANTITUMOR NUCLEOSIDES AND NUCLEOTIDES.....	ET	2R01 CA12585-05	134,784
BOX, HAROLD C.....	THE MOLECULAR BASIS OF RADIATION SENSITIZATION.....	BBCB	2R01 CA14434-03	14,900
BROSS, IRWIN D.....	PROGRAM IN BIOMETRICS OF CANCER EPIDEMIOLOGY.....	CAP	5P01 CA11531-06	361,491
BUFFETT, RITA F.....	IMMUNOLOGICAL PREVENTION OF LEUKEMIA INDUCTION.....	PTHB	5R01 CA13377-03	59,126
CARTER, WILLIAM A.....	CHEMOTHERAPY AND REGULATION OF ONCOGENIC VIRUSES.....	CAP	5P01 CA14801-03	376,827
CARTER, WILLIAM A.....	VIROGENE IN PROSTATIC TISSUES AND FLUIDS.....	SRC	5R26 CA15502-02	64,913
CHAPMAN, VERNE M.....	CONTROL OF GENE EXPRESSION DURING EARLY EMBRYOGENESIS.....	GEN	1R01 HD08768-01	73,142
CHHEDA, GIRISH B.....	ROLE OF MODIFIED NUCLEOSIDES IN CANCER CHEMOTHERAPY.....	ET	5R01 CA14185-03	72,525
CHU, TSANN M.....	ACID AND ALKALINE PHOSPHATASES IN PROSTATIC CANCER.....	SRC	3R26 CA15126-02S1	23,331
CHU, TSANN M.....	STUDY OF CARCINOFOETAL ANTIGENS OF PROSTATIC CANCERS.....	SRC	5R26 CA15437-02	45,919
DAO, THOMAS L.....	STUDY OF MAMMARY CARCINOGENESIS.....	CAP	5P01 CA14812-02	244,507
DAVE, CHANDRAKANT.....	BISGUANYLHYDRAZONES, POLAMINES, AND CELL PROLIFERATION.....	ET	5R01 CA15143-02	52,999
DOUGHERTY, THOMAS J.....	ACTIVATED DYES AS SPECIFIC CANCER DRUGS.....	ET	1R01 CA16717-01	45,327
DOYLE, DARRELL J.....	PROTEINS OF THE HEPATOMA CELL PLASMA MEMBRANE.....	SSS	1R01 CA17149-01	83,761
DOYLE, DARRELL J.....	GENETIC REGULATION OF MOUSE LIVER ENZYMES.....	PC	5R01 HD08410-03	52,854
EVANS, MARY J.....	DNA POLYMERASES IN MURINE LYMPHOID CELLS.....	ALY	1R01 CA18646-01	32,525
FIEL, ROBERT J.....	POLYANIONS: MODEL GENE REGULATORS.....	ET	5R01 GM19883-02	23,335
FUJII, HIROSHI.....	CONTROL OF TUMOR GROWTH BY INDUCTION OF B-CELL TOLERANCE.....	IMB	1R01 CA16866-01A1	30,038
GAETA, JOHN F.....	SCANNING MICROSCOPY OF PROSTATIC CANCER.....	SRC	1R26 CA18052-01	31,655
GESSNER, TERESA.....	DETOXICATION PATHWAYS IN NORMAL AND NEOPLASTIC TISSUES.....	ET	5R01 CA14729-03	43,443
GRINDEY, GERALD B.....	RATIONAL APPROACHES TO COMBINATION CHEMOTHERAPY.....	ET	1R01 CA17156-01	64,441
GROSSBERG, ALLAN L.....	CHEMICAL NATURE OF LIGAND BINDING SITES OF MYELOMA.....	ALY	5R01 CA11656-05	45,670

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
GURTGO, HIRA L.	MICROSOMAL OXYGENASES-AFLATOXIN ACTIVATION-DNA DAMAGE	PTHB	1R01 ES00993-01A2	30,075
HAKALA, MAIRE T.	CELL CULTURE STUDIES ON DRUGS AND ANTIMETABOLITES	ET	5R01 CA04175-17	104,840
HAN, TIN	IN VITRO LYMPHOCYTE RESPONSES IN HODGKIN'S DISEASE	PTHA	3R01 CA12318-03S1	4,062
HAN, TIN	IN VITRO LYMPHOCYTE RESPONSES IN HODGKIN'S DISEASE	PTHA	2R01 CA12318-04	43,330
HAN, TIN	EFFECT OF NEURAMINIDASE ON CELL-MEDIATED IMMUNITY	ET	5R01 CA14323-03	33,063
HELD, WILLIAM A.	ASSEMBLY OF E. COLI 30S RIBOSOMES FROM PRECURSOR RNA	PC	1R01 GM22204-01	54,306
HELMSTETTER, CHARLES E.	BIOCHEMISTRY AND RADIATION EFFECT DURING THE CELL CYCLE	MBC	5R01 CA08232-11	48,986
HELMSTETTER, CHARLES E.	THE CELL CYCLE IN RELATION TO CANCER CHEMOTHERAPY	ET	5R01 CA14365-03	19,521
HENDERSON, EDWARD S.	ACUTE LEUKEMIA GROUP B	CCI	3R10 CA02599-20S1	22,961
HENDERSON, EDWARD S.	COOPERATIVE STUDY OF ACUTE LEUKEMIA	CCI	2R10 CA02599-21	105,173
HENDERSON, EDWARD S.	CANCER CLINICAL RESEARCH CENTER	CAP	5P02 CA05834-14	656,906
HENDERSON, EDWARD S.	CHEMOTHERAPY OF MAN IN A PROTECTED ENVIRONMENT	CCI	3R10 CA10044-08S1	538,670
HENDERSON, EDWARD S.	LEUKEMIA CENTER PLATELET TRANSFUSION PROGRAM	CCI	5R10 CA11987-21	138,166
HOLTERMANN, OLE A.	ANTITUMOR EFFECTS OF NONSPECIFICALLY ACTIVATED W.B.C.	SSS	1R01 CA17205-01	42,278
HOLYOKE, EDWARD D.	IMMUNE STATUS: GASTROINTESTINAL TUMOR (COLON)	SRC	5R26 CA15263-02	88,563
HUANG, CHESTER C.	CELL LINES FROM PERSONS WITH HIGH RISK OF CANCER	GEN	5R01 CA14011-03	40,975
HUI, SEK W.	ELECTRON DIFFRACTION OF CANCER CELL MEMBRANES	MBY	5R01 CA15330-02	29,688
JACOBSON, KENNETH A.	SURFACE DYNAMICS OF NORMAL AND TRANSFORMED CELLS	CBY	1R01 CA16743-01	71,304
JOHNSON, RICHARD J.	RADIATION THERAPY ONCOLOGY GROUP	CCI	5R10 CA14058-02	30,360
KIROANI, RASHAD Y.	METABOLITES AND CONJUGATES IN BILE AND URINE	GMA	5R01 AM11754-08	40,458
KLEIN, EDMUND	RELATION OF IMMUNE REACTIONS TO CUTANEOUS NEOPLASIA	IMB	5R01 CA13599-05	82,253
KORYTNYK, WALTER	VITAMIN B6 INHIBITORS AND POTENTIAL ANTICANCER AGENTS	MCHA	3R01 CA08793-08S1	15,084
KORYTNYK, WALTER	CANCER CHEMOTHERAPY AND PLASMA MEMBRANE	MCHA	2R01 CA08793-09A1	43,781
KUNDU, NAKULESWAR	FETAL HEALTH AND ESTEROL PRODUCTION	END	5R01 HD08928-02	21,762
LASKOWSKI, MICHAEL, SR.	STUDY OF LIMITED ENZYMATIC CLEAVAGES OF NATIVE DNA	BIO	1R01 CA17788-01	32,595
LIBBY, PAUL R.	POLYAMINE METABOLISM IN MAMMARY CANCER	ET	5R01 CA15362-02	45,653
MASLOW, DAVID E.	SPECIFICITY IN NORMAL AND CANCER CELL INTERACTIONS	PTHB	5R01 CA14370-03	19,158
MAYHEW, ERIC G.	MECHANISM OF ANTITUMOR EFFECTS OF POLYNUCLEOTIDES	ET	5R01 CA14405-03	19,945
MC LIMANS, WILLIAM F.	DIRECT SUSPENSION CULTURE OF HUMAN PROSTATE CELLS	SRC	1R26 CA18652-01	73,387
MIHICH, ENRICO	CANCER CHEMOTHERAPY AND INHIBITORS OF DNA SYNTHESIS	ET	5R01 CA05298-15	83,126
MIHICH, ENRICO	EXPERIMENTAL THERAPEUTICS AND CANCER DRUG PROGRAM	CAK	2P01 CA13038-04	1,041,886
MIHICH, ENRICO	CANCER CHEMOTHERAPY AND IMMUNOLOGIC EFFECTS	ET	5R01 CA15142-02	97,387
MINOWADA, JUN	STUDY OF HUMAN LYMPHATIC NEOPLASIA	PTHB	5R01 CA14413-03	64,834
MIRANO, EDWIN A.	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA18201-01	220,509
MITTELMAN, ARNOLD	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA12296-05	77,362
MOAYERI, HOUSHANG	LEUKOCYTE THYMIDINE UPTAKE IN CHRONIC LEUKEMIA	HEM	1R01 CA17668-01	24,508
MORREALE, CHARLES E.	MECHANISMS OF HYDROCARBON CARCINOGENESIS IN THE RAT	ET	5R01 CA15162-02	48,446
MUNYON, WILLIAM H.	CELL TRANSFORMATION BY HERPES SIMPLEX VIRUS	VR	2R01 CA13114-04	66,944
MURPHY, GERALD P.	NATIONAL PROSTATIC CANCER PROJECT	BP	3R26 CA14716-02S1	10,000
MURPHY, GERALD P.	COOPERATIVE STUDY OF PROSTATIC CANCER	BP	5R26 CA14716-03	420,027
MURPHY, GERALD P.	NATIONAL STUDY OF CANCER OF THE BLADDER	BP	3R26 CA15937-01S1	2,289
MURPHY, GERALD P.	NATIONAL STUDY OF CANCER OF THE BLADDER	BP	5R26 CA15937-02	46,096
MURPHY, GERALD P.	SUPPORT FOR CANCER CORE CENTER	CAP	1P01 CA16056-01	380,780
MURPHY, GERALD P.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00262-10	582,912
MURPHY, GERALD P.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05648-09	255,345
NEEMAN, MOSHE	INHIBITION OF INITIATION-PROMOTION CARCINOGENESIS	ET	1R01 CA15890-01A1	29,690
NOYES, WILBUR F.	CARCINOGEN EFFECTS ON ORGAN CULTURES	ET	5R01 CA14387-03	30,924
PAIGEN, KENNETH	GENETIC STUDY OF MAMMALIAN CONTROL SYSTEMS	SSS	5P01 GM19521-04	613,438
PAPAHADJOPOULOS, P. D.	PHOSPHOLIPID-PROTEIN INTERACTIONS AND MEMBRANE FUNCTION	BBCB	2R01 GM18921-04	63,127
PARSONS, DONALD F.	REPLICATION OF WET CANCER CELL SURFACES	MBY	3R01 CA13845-02S1	38,341
PARSONS, DONALD F.	FUNDAMENTAL STUDIES ON BIOLOGICAL ELECTRON IMAGING	MBY	2R01 GM16454-07	97,666
PARTHASARATHY, RENGACHARY	STRUCTURE AND FUNCTION OF MODIFIED BASES OF T-RNA	BBCA	1R01 CA16844-01	40,273
PAULY, JOHN L.	WHOLE BLOOD MICROCULTURE ASSAY OF LYMPHOCYTE FUNCTION	HEM	1R01 CA17658-01	22,829
POSTE, GEORGE H.	REVERSION OF PROPERTIES IN VIRUS-TRANSFORMED CELLS	VR	5R01 CA13393-03	75,726
PREISLER, HARVEY D.	PATHOPHYSIOLOGY OF MURINE MYELOID LEUKEMIA	PTHB	1R01 CA17785-01	57,502
PRESSMAN, DAVID	STRUCTURE AND CHEMICAL NATURE OF SPECIFIC ANTIBODY SITES	ALY	2R01 AI03962-15	111,180
PRESSMAN, DAVID	IMMUNOBIOLOGICAL STUDIES WITH CULTURED HUMAN LYMPHOCYTES	IMB	5R01 AI08999-07	136,225
PRESSMAN, DAVID	IMMUNOMODIFICATION OF IMMUNE RESPONSE AND TUMOR GROWTH	IMB	5R01 CA14562-03	79,995
PRESSMAN, DAVID	MEMBRANE ANTIGENS FROM NORMAL AND LEUKEMIC LYMPHOCYTES	ALY	1R01 CA17276-01	58,155

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
PRESSMAN, DAVID .....	CANCER CELL PROPERTIES AND HOST RESPONSE .....	CAK	1P01 CA17609-01	240,834
ROHOLT, OLIVER A. ....	BINDING SITES OF MYELOMA PROTEINS AND ANTIBODIES .....	ALY	3R01 AI12100-01S1	6,000
ROHOLT, OLIVER A. ....	BINDING SITES OF MYELOMA PROTEINS AND ANTIBODIES .....	ALY	5R01 AI12100-02	30,944
ROSEN, FRED .....	GLUCOCORTICOID RECEPTORS IN NORMAL AND MALIGNANT TISSUE .....	ET	5R01 CA05671-15	65,471
SANDBERG, AVERY A. ....	PROTEIN BINDING AND BILIARY EXCRETION OF STEROIDS .....	END	2R01 AM01240-19	95,976
SANDBERG, AVERY A. ....	CHROMOSOMES OF HUMAN BLADDER TUMORS .....	SRC	5R26 CA14555-03	59,581
SANDBERG, AVERY A. ....	TEST SYSTEMS FOR DRUGS AGAINST PROSTATIC CANCER .....	SRC	5R26 CA15436-02	43,401
SANDBERG, AVERY A. ....	ESTROGEN RECEPTORS AND CANCER OF THE PANCREAS .....	SRC	1R26 CA18396-01	32,006
SCHWARTZ, HERBERT S. ....	CYTOTOXIC SELECTIVITY OF ANTICANCER DRUGS .....	ET	5R01 CA14750-03	28,105
SHEDD, DONALD P. ....	REED FISTULA SPEECH FOLLOWING PHARYNGOLARYNGECTOMY .....	CMS	5R01 NS10941-02	12,635
SHOWS, THOMAS B. ....	HUMAN GENE LINKAGE RELATIONSHIPS IN CELL HYBRIDS .....	GEN	5R01 GM20454-03	91,889
SHOWS, THOMAS B. ....	AN APPROACH TO HUMAN DEVELOPMENT WITH CELL HYBRIDS .....	GEN	5R01 HD05196-05	63,791
SINKS, LUCIUS F. ....	COOPERATIVE STUDY OF CHEMOTHERAPY OF ACUTE LEUKEMIA .....	CCI	2R10 CA07918-11	71,259
SLACK, NELSON H. ....	BLADDER ADJUVANT STUDY, FOLLOW-UP AND ANALYSIS .....	SRC	1R26 CA16901-01	30,218
SRIVASTAVA, B. I. ....	POLYNUCLEOTIDES & STREPTOVARICINS IN CANCER CHEMOTHERAPY .....	ET	5R01 CA16045-02	38,172
SRIVASTAVA, B. I. ....	TERMINAL DEOXYNUCLEOTIDYL TRANSFERASE AND LEUKEMIA .....	PTHB	1R01 CA17140-01	45,042
TABER, ROBERT L, JR. ....	PROTEOLYSIS IN CELL SYNTHETIC AND GROWTH PROCESSES .....	SSS	1R01 CA16705-01	48,577
TAKITA, HIROSHI .....	IMMUNOTHERAPY IN LUNG CARCINOMA WITH AUTOLOGOUS TUMOR ...	ET	5R01 CA15691-02	49,956
WEISS, LEONARD .....	THE EFFECT OF IMMUNOLOGIC FACTORS ON METASTASIS .....	IMB	5R01 CA14993-02	29,646
WENNER, CHARLES E. ....	THE EFFECT OF COCARCINOGENS ON CELLULAR MEMBRANES .....	BBCB	5R01 CA13784-03	42,571
WENNER, CHARLES E. ....	PURIFYING & RECONSTITUTING ACETYLCHOLINE RECEPTORS .....	BBCB	5R01 NS11356-02	35,182
ZAKRZEWSKI, SIGMUND F. ....	DEVELOPMENT AND STUDY OF NEW ANTICANCER AGENTS .....	ET	5R01 CA14078-03	72,679
ORGANIZATION TOTAL	107	11,051,134		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE—RESEARCH INSTITUTE ON ALCOHOLISM ZIP CODE 14203</b>				
FABER, DONALD S. ....	VERTEBRATE NEURONAL INTERACTIONS AND ELECTROGENESIS .....	NEUB	7R01 NS12132-01	17,207
ORGANIZATION TOTAL	1	17,207		
<b>RESEARCH FOR HEALTH IN ERIE COUNTY ZIP CODE 14215</b>				
WICHER, KONRAD J. ....	CELLULAR IMMUNITY IN SYPHILIS .....	IMB	5R01 AI11102-03	35,073
ORGANIZATION TOTAL	1	35,073		
<b>STATE UNIVERSITY OF NEW YORK AT BUFFALO ZIP CODE 14214</b>				
ACARA, MARGARET A. ....	RENAL METABOLISM OF CHOLINE: ENHANCEMENT OF EXCRETION .....	GMB	1R01 AM17201-01A1	35,455
ANDERSON, WAYNE K. ....	THE SYNTHESIS OF POLYFUNCTIONAL TUMOR INHIBITORS .....	MCHB	5R01 CA11880-04	31,078
ANDRES, GIUSEPPE A. ....	IMMUNOPATHOLOGY OF NEPHRITIS AND RENAL TRANSPLANTS .....	PTHA	2R01 AI10334-05	125,235
APICELLA, MICHAEL A. ....	CLASSIFICATION OF N. MENINGITIDIS GROUP C SUBGROUPS .....	BM	5R01 AI10236-05	28,347
APICELLA, MICHAEL A. ....	SUBGROUPS OF NEISSERIA GONORRHOEA .....	BM	1R01 AI11873-01A1	39,238
ARBESMAN, CARL E. ....	CLINICAL & IMMUNOLOGIC EFFECTS OF SPECIFIC IMMUNOTHERAPY .....	IMB	5R01 AI01303-19	74,051
ARBESMAN, CARL E. ....	STUDIES OF SYSTEMIC REACTIONS TO STINGING INSECTS .....	AIRC	5P15 AI10397-03	71,527
BACK, NATHAN .....	VASOACTIVE REGULATORS IN TUMOR TISSUE .....	ET	5R01 HL11492-08	39,090
BAHL, OM P. ....	THE CHEMISTRY OF SUBMAXILLARY MUCIN IN CYSTIC FIBROSIS .....	PC	5R01 AM13490-05	46,407
BAHL, OM P. ....	CHARACTERIZATION OF GLYCOSIDASES & GLYCOSYL TRANSFERASES .....	PC	1R01 AM17441-01	62,469
BAHL, OM P. ....	STUDIES ON CHORIONIC GONADOTROPIN .....	REB	9R01 HD08766-09	116,245
BARDOS, THOMAS J. ....	CHEMICAL AND BIOLOGICAL STUDIES IN CANCER CHEMOTHERAPY .....	MCHA	2R01 CA06695-13	69,288
BARNARD, ERIC A. ....	AUTORDIAGNOSTIC STUDIES OF RECEPTORS AND ENZYMES .....	CBY	5R01 GM11754-12	57,803
BARNARD, ERIC A. ....	ACTIVE CENTER STUDIES OF ENZYMES .....	BBCA	3R01 GM16726-05A1S1	18,550
BARNETT, MICHAEL L. ....	ROLE OF MAST CELL IN GINGIVAL AND PERIODONTAL LESIONS .....	DEN	7R23 DE04162-01	10,186
BEUTNER, ERNST H. ....	MODEL OF HYPERSENSITIVITY INDUCED PERIODONTAL DISEASE .....	DEN	5R01 DE03723-03	37,270
BROWNE, ALEXANDER C. ....	CONTROL OF STEROIDOGENESIS IN ADRENAL CORTICAL TISSUE .....	END	1R01 AM18141-01	41,149
BROWNE, ALEXANDER C. ....	PATHOGENESIS AND PREVENTION OF HYPERTENSION .....	CVB	2R01 HL06975-14	154,100
BRUENN, JEREMY A. ....	SEQUENCING OF YEAST KILLER-FACTOR RNAS .....	MBY	1R01 GM22200-01	30,992
CADENHEAD, DAVID A. ....	SURFACE STUDIES OF MEMBRANE LIPIDS .....	BBCB	5R01 HL12760-06	32,061
CHANG, HSIN-KANG .....	ROLE OF MULTICOMPONENT DIFFUSION IN GAS EXCHANGE .....	CVA	1R01 HL18022-01	23,654
CHLOUVERAKIS, CONSTANTINE .....	A FAMILY APPROACH TO THE STUDY OF HUMAN OBESITY .....	MET	5R01 AM16346-03	2,894
CUDKOWICZ, GUSTAVO .....	FACTORS CONTROLLING GRAFT-HOST INTERACTIONS .....	ALY	5R01 AM13969-07	85,675
DANIELLI, JAMES F. ....	EXPERIMENTAL & THEORETICAL STUDIES OF CELL SENESCENCE .....	HDAG	5P01 HD07328-02	98,552
DOBSON, RICHARD L. ....	MECHANISM OF ECCRINE SWEAT GLAND FUNCTION .....	GMA	5R01 AM16258-03	34,886
ECCLES, JOHN C. ....	ROLE OF CEREBELLUM IN CONTROL OF MOVEMENT .....	PHY	2R01 NS08221-07	76,992
ELLIOTT, WILLARD B. ....	PROPERTIES OF CYTOCHROME OXIDASE .....	BIO	5R01 GM06241-17	47,017



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
ELLISON, ROSE R.	CHEMOTHERAPY OF CANCER: ACUTE LEUKEMIA GROUP B	CCI	1R10 CA16451-01	49,747
ELLISON, ROSE R.	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17978-01	72,601
ELLISON, SCOLAN A.	HOST RESPONSE IN DENTAL DISEASE	SSS	5P01 DE03841-02	363,536
EMMINGS, FRED G.	SALIVARY ANTIBODIES TO S. MUTANS: INDUCTION AND EFFECTS	DEN	1R01 DE04061-01	40,327
ETTINGER, MURRAY J.	THE MOLECULAR BASIS OF ANTIDIURETIC HORMONE ACTION	GMB	1R01 AM17911-01	32,328
FARHI, LEON E.	CARDIORESPIRATORY PERFORMANCE & ENVIRONMENTAL FACTORS	HEP	5P01 HL14414-04	309,460
FEDOR, LEO R.	ENZYME, NONENZYME CATALYZED CARBON ACID PROTOTROPY	MCHA	3R01 GM18999-03S1	700
GARRICK, MICHAEL D.	STUDIES ON HEMOGLOBIN: BIOSYNTHESIS AND GENETICS	HEM	5R01 AM14923-04	37,265
GENCO, ROBERT J.	ANTIBODIES OF SALIVA AND OTHER SECRETIONS	ALY	2R01 DE02814-07	55,603
GENCO, ROBERT J.	SYMPOSIUM ON THE IMMUNOLOGIC ASPECTS OF DENTAL CARIES	NSS	1R13 DE04090-01A1	37,655
GIBALDI, MILO	CLINICAL PHARMACOKINETICS AND BIOPHARMACEUTICS	SRC	5P11 GM20852-02	259,466
GORDON, MILDRED	SPERM MEMBRANES DURING POST-GONADAL DIFFERENTIATION	REB	1R01 HD10031-01	89,261
GRAHAM, SAXON	SOCIAL EPIDEMIOLOGY OF CANCER AND ITS PREVENTION	CAP	3P01 CA11535-05S1	49,332
GREEN, FLOYD A.	ERYTHROCYTE MEMBRANE SULFHYDRYL AND RH ACTIVITY	HEM	5R01 HD02370-09	75,333
GRUSHKA, ELI	SEPARATION OF AMINO ACIDS USING LIQUID CHROMATOGRAPHY	MCHB	1R01 GM20846-01	26,907
GUTHRIE, ROBERT	DETECTION AND STUDY OF INBORN ERRORS	GEN	5R01 HD03967-10	54,735
HARFORD, AGNES G.	NATURAL CORRECTION OF GENE DEFICIENCIES	GEN	1R01 GM21487-01	36,753
HOGAN, PERRY M.	MECHANISMS OF CARDIAC AUTORHYTHMICITY	CVA	5R01 HL16135-02	21,554
HRESHCHYSHYN, MYROSLAW M.	COOPERATIVE STUDY OF NEW GYNECOLOGIC CANCER PATIENTS	CCI	5R10 CA12476-05	83,808
HULL, MC ALLISTER H, JR.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07066-10	43,094
JUNG, CHAN Y.	IDENTIFICATION AND ISOLATION OF SUGAR TRANSPORT CARRIER	BBCB	2R01 AM13376-07	38,920
KALMAN, THOMAS I.	SELECTED STUDIES IN NUCLEIC ACID METABOLISM	ET	3R01 CA13604-03S1	7,302
KALMAN, THOMAS I.	SELECTED STUDIES IN NUCLEIC ACID METABOLISM	ET	2R01 CA13604-04	51,917
KLOCKE, FRANCIS J.	PATHOPHYSIOLOGY OF CARDIOPULMONARY DYSFUNCTION	HEP	5P01 HL15194-03	358,294
KOENIG, EDWARD	PROTEIN SYNTHESIZING MACHINERY OF THE AXON	NEUB	5R01 NS04656-12	44,555
KRASNEY, JOHN A.	MECHANISMS OF THE CARDIOVASCULAR RESPONSE TO ANOXIA	CVA	1R01 HL18416-01	39,978
LEE, GEORGE C.	SOLID AND STRUCTURAL MECHANICS OF LUNGS	AFY	5R01 HL14495-02	46,356
LEVY, GERHARD	PHARMACOKINETICS OF SALICYLATE IN CHILDREN	PHRA	2R01 GM19568-08	60,471
LOEWUS, FRANK A.	STUDY OF INOSITOL METABOLISM	MBY	2R01 GM12422-11	118,846
MC ISAAC, ROBERT J.	INFLUENCE OF PREGANGLIONIC NERVE ON GANGLION RESPONSES	PHRA	5R01 NS06990-09	48,011
MILGROM, FELIX	HUMORAL ANTIBODIES ACCOMPANYING HOMOGRAFTS	IMB	5R01 AM17317-11	120,557
MILGROM, FELIX	AUTOIMMUNE RESPONSES TO NORMAL AND MALIGNANT TISSUES	CAP	5P01 CA02357-21	440,296
MILLER, ROBERT F.	GLIAL CONTRIBUTIONS TO RETINAL FUNCTION	VISB	2R01 EY00844-04	54,717
MILLER, WILLIAM A.	EXPLANTATION OF DENTAL LAMINA	DEN	2R01 DE02908-04A1	38,219
MILLER, WILLIAM A.	DIFFERENTIATION OF ODONTOBLASTS IN PULPAL HEALING	DEN	1R01 DE04048-01	28,933
MOHN, JAMES F.	BLOOD GROUP ANTIGENS AND ANTIBODIES	HEM	5R01 HL05351-15	41,601
NANCOLLAS, GEORGE H.	THE KINETICS OF MINERALIZATION OF TEETH	DEN	5R01 DE03223-05	52,889
NATIELLA, JOSEPH R.	STRUCTURAL-FUNCTIONAL CHANGES IN FREEZING ORAL TISSUE	DEN	1R01 DE03991-01	44,800
NATIELLA, JOSEPH R.	A STUDY OF SUBPERIOSTEAL ORAL IMPLANTS IN PRIMATES	DEN	1R01 DE04226-01	75,872
NISENGARD, RUSSELL J.	IMMUNOPATHOLOGY OF GINGIVITIS AND PERIODONTITIS	DEN	2R01 DE03408-04	29,012
NOBLE, ROBERT W.	REACTION OF HEMOGLOBIN WITH LIGANDS AND ANTIBODIES	BBCA	5R01 HL12524-07	29,546
NOLAN, JAMES P.	ROLE OF ENDOTOXIN IN ACUTE AND CHRONIC LIVER INJURY	BM	5R01 A111552-03	33,569
PADWA, ALBERT	HETEROCYCLIC SMALL RING COMPOUNDS	MCHA	5R01 CA12195-08	36,637
PANNILL, F CARTER, JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05400-14	214,883
PHIPPS, GRANT T.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05330-14	60,793
PROVOST, THOMAS T.	COMPLEMENT ACTIVATION VIA THE C3 SHUNT IN SKIN DISEASE	IGMA	5R01 AM16593-02	17,790
RECHNITZ, GARRY A.	CLINICAL ANALYSIS WITH ION-SELECTIVE MEMBRANE ELECTRODES	MCHB	5R01 GM17576-05	46,896
RECHNITZ, GARRY A.	POTENTIOMETRIC CARBONATE ASSAY IN BODY FLUIDS	MCHB	1R01 GM21744-01	26,372
REICHLIN, MORRIS	IMMUNOCHEMISTRY OF HEMOGLOBIN VARIANTS	ALY	5R01 AM10428-10	45,579
RENNICK, BARBARA R.	ACTIVE TRANSPORT OF BASES BY RENAL TUBULE	PHY	3R01 AM10420-09S1	9,798
RENNICK, BARBARA R.	HOMEOSTATIC REGULATION OF PLASMA CHOLINE	CVB	2R01 HL14092-04A1	38,997
REYNARD, ALAN M.	A STUDY OF BACTERIAL DRUG RESISTANCE MECHANISMS	CDC	5R01 A111842-06	40,425
RITCHIE, CALVIN D.	PROTON TRANSFER REACTIONS	MCHA	5R01 GM12832-10	36,443
ROTHSTEIN, MORTON	BIOCHEMISTRY OF NEMATODES AND OTHER INVERTEBRATES	TMP	5R01 A107145-11	45,463
ROTHSTEIN, MORTON	STUDIES OF AGING IN A NEMATODE MODEL SYSTEM	HDAG	5P01 HD06644-04	193,741
SCHENK, WORTHINGTON G, JR.	SEQUENCE OF ORGAN FAILURES FOLLOWING TRAUMA	SSS	5P01 GM15768-07	293,241
SCHENK, WORTHINGTON G, JR.	HEMODYNAMICS AS APPLIED TO SURGICAL PROBLEMS	SGYA	2R01 HL03181-18	77,295
SCHUSSLER, GEORGE C.	SERUM THYROXINE BINDING AND THYROXINE TURNOVER	END	5R01 AM11454-09	42,928
SCHWARTZ, MICHAEL A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05454-13	79,253
SEGAL, HAROLD L.	ENZYMIC RESPONSES TO ALTERED ENDOCRINE STATES	PC	3R01 AM08873-10S1	22,940

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
SEGAL, HAROLD L .....	ENZYMIC RESPONSES TO ALTERED ENDOCRINE STATES.....	PC	2R01 AM08873-11A1	51,338
SEGAL, HAROLD L .....	MECHANISMS AND REGULATION OF PROTEIN TURNOVER.....	SSS	1R01 AM18187-01	42,070
SIEGEL, JOHN H .....	PATTERNS AND PROCESSES IN HUMAN SHOCK AND TRAUMA.....	SSS	5R01 GM20280-04	167,387
SIEGEL, JOHN H .....	THE ROLE OF OCCULT MYOCARDIAL FAILURE IN HUMAN SHOCK.....	SGYA	3R01 HL15676-02S1	23,964
SIEGEL, JOHN H .....	THE ROLE OF OCCULT MYOCARDIAL FAILURE IN HUMAN SHOCK.....	SGYA	2R01 HL15676-03	150,000
SREBRO, RICHARD .....	MOLECULAR BASIS OF PHOTORECEPTOR ACTIVITY.....	VISB	5R01 EY00435-07	51,099
TRIGGLE, DAVID J .....	SOURCES AND ROLES OF CALCIUM IN SMOOTH MUSCLE EXCITATION.....	PHRA	5R01 HL16003-05	32,363
TUFARIELLO, JOSEPH J .....	OXIDATIVE CYCLIZATION IN ALKALOID SYNTHESIS.....	MCHA	5R01 CA14611-02	39,413
VAN OSS, CAREL J .....	BACTERIAL SURFACES, VIRULENCE, AND PHAGOCYTOSIS.....	BM	5R01 AI10666-03	15,106
WANG, JUI H .....	MECHANISM OF ENZYME ACTION AND ALLIED MODEL REACTIONS.....	BBCA	5R01 GM19990-03	104,459
WEISSTEIN, NAOMI .....	THE ORGANIZATION OF COMPLEX VISUAL PERCEPTION.....	EXP	5R01 EY01330-02	40,233
ZELIN, MARVIN .....	DESIGN OF STATISTICAL MODELS OF BIOMEDICAL PHENOMENA.....	COM	5R01 CA10810-08	60,313
ZELIN, MARVIN .....	COOPERATIVE STUDY OF CLINICAL CANCER.....	CCI	2R10 CA12721-04	457,925
ORGANIZATION TOTAL	100 7,599,481			
<b>STATE UNIVERSITY OF NEW YORK—COLLEGE AT BUFFALO ZIP CODE 14222</b>				
WAGNER, MAZIE E .....	CHILD SPACING AND FAMILY SIZE IN POPULATION PLANNING.....	POP	2R01 HD07551-02	76,850
ORGANIZATION TOTAL	1 76,850			
<b>COLD SPRING HARBOR</b>				
<b>COLD SPRING HARBOR LABORATORY ZIP CODE 11724</b>				
GESTELAND, RAYMOND F .....	SELECTED COLD SPRING HARBOR SUMMER WORKSHOPS.....	NSS	5R13 CA16224-02	65,820
GESTELAND, RAYMOND F .....	CONFERENCE ON PROTEASES AND BIOLOGICAL CONTROL (REVISED).....	NSS	1R13 CA17452-01	13,610
GESTELAND, RAYMOND F .....	CONFERENCE ON PROTEASES AND BIOLOGICAL CONTROL.....	NSS	1R13 GM21553-01	8,000
WATSON, JAMES D .....	SUPPORT FOR SYMPOSIA ON QUANTITATIVE BIOLOGY.....	GEN	5R13 CA02809-20	19,000
WATSON, JAMES D .....	CANCER RESEARCH PROGRAM.....	CAP	5P01 CA13106-04	1,668,215
WATSON, JAMES D .....	CONFERENCE ON CELL MOTILITY.....	MBY	1R13 CA18788-01	14,500
WATSON, JAMES D .....	CONFERENCE ON CELL MOTILITY.....	MBY	1R13 GM22667-01	10,000
WATSON, JAMES D .....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05717-05	145,638
ZIPSER, DAVID .....	THE POLYPEPTIDE PRODUCTS OF LAC OPERON MUTATIONS.....	MBC	3R01 GM17612-05S1	6,225
ORGANIZATION TOTAL	9 1,951,008			
<b>COOPERSTOWN</b>				
<b>MARY IMOGENE BASSETT HOSPITAL AND CLINICS ZIP CODE 13326</b>				
ASHLEY, CHARLES A .....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05498-11	43,564
BLUMENSTOCK, DAVID A .....	ALLOGRAFT TOLERANCE WITH RADIATION AND MARROW.....	SGYA	1R01 AI12270-01	48,696
PETERS, THEODORE, JR .....	FORMATION AND FUNCTION OF SERUM ALBUMIN.....	BJO	5R01 HL02751-18	60,888
SAUER, LEONARD A .....	CONTROL OF THE ADENINE NUCLEOTIDES IN ASCITES TUMORS.....	BIO	7R01 CA17450-01	29,416
ORGANIZATION TOTAL	4 182,564			
<b>EAST MEADOW</b>				
<b>MASSAU COUNTY MEDICAL CENTER ZIP CODE 11554</b>				
MACRI, JAMES N .....	ANTENATAL DIAGNOSIS OF NEURAL TUBE DEFECTS.....	HED	1R01 HD08724-01	5,032
MADDAIAH, V T .....	MECHANISM OF ACTION OF GROWTH HORMONE.....	END	5R01 AM16649-02	9,200
NEVINS, ALAN J .....	APICAL CALCIFICATION OF NONVITAL TEETH.....	DEN	5R23 DE03931-02	8,260
ROSS, AVRON H .....	CRITERIA FOR USE OF ZOSTER IMMUNE GLOBULIN.....	VR	5R01 AI09785-05	53,916
ORGANIZATION TOTAL	4 76,408			
<b>GARDEN CITY</b>				
<b>ADELPHI UNIVERSITY ZIP CODE 11530</b>				
BETTELHEIM, FREDERICK A .....	OPTICOMECHANICAL STUDY OF GEL STRUCTURES IN THE EYE.....	BBCA	2R01 EY00501-07	33,956
COOPERSTEIN, DEBORRA F .....	ASCORBIC ACID EFFECTS ON CORNEAL TRANSPORT.....	VISA	1R23 EY01485-01	7,500
HAMPTON, JOHN K, JR .....	MATERNAL RESPONSE TO THE FETAL ALLOGRAFT.....	ALY	5R01 HD08746-02	16,419
JONES, ROBERT D .....	DIAMINE OXIDASE AND POLYAMINES IN GROWTH REGULATION.....	HED	1R01 HD09512-01	21,039
ORGANIZATION TOTAL	4 78,914			

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
<b>HASTINGS ON HUDSON</b>				
<b>INSTITUTE OF SOCIETY, ETHICS AND THE LIFE SCIENCES</b>		<b>ZIP CODE 10706</b>		
LAPPE, MARC A.	SOCIAL AND LEGAL ASPECTS OF HUMAN GENETIC RESEARCH.....	SSS	5R01 GM19922-03	89,999
ORGANIZATION TOTAL	1		89,999	
<b>ITHACA</b>				
<b>CORNELL UNIVERSITY</b>		<b>ZIP CODE 14850</b>		
ALBRECHT, ANDREAS C.	BASIC PHOTOELECTRIC STUDIES IN ORGANIC SOLID STATE.....	BBCA	5R01 GM10865-16	67,295
ANDREWS, EDWIN J.	RELATIONSHIP OF REGENERATION, ONCOGENESIS AND IMMUNITY.....	IMB	1R01 CA17080-01	34,078
ANDREWS, EDWIN J.	LABORATORY ANIMAL DIAGNOSTIC RESOURCE.....	AR	1P06 RR00979-01	102,162
BARNES, RICHARD H.	EFFECTS OF MALNUTRITION IN EARLY LIFE.....	NTN	5R01 HD02581-15	75,993
BATEMAN, DURWARD F.	BIOCHEMISTRY OF INFECTIONS: CELL WALL DEGRADATION.....	MBC	5R01 AI04930-13	45,583
BENSADOUN, ANDRE	LIPID TRANSPORT IN AVIAN SPECIES.....	MET	5R01 HL14990-03	50,731
BERGMAN, EMMETT N.	CARBOHYDRATE AND KETONE BODY METABOLISM.....	MET	5R01 AM05976-14	68,855
BLACKLER, ANTONIE W.	ORGANIZATION OF THE AMPHIBIAN EGG.....	CBY	5R01 HD07720-02	36,015
CALNEK, BRUCE W.	STUDIES ON THE AVIAN LEUKOSIS COMPLEX.....	VR	5R01 CA06709-13	58,559
CAMHI, JEFFREY M.	BEHAVIORAL NEUROPHYSIOLOGY.....	PHY	5R01 NS09083-05	27,701
CAPRANICA, ROBERT R.	ENCODING OF VOCAL SIGNALS IN THE AUDITORY SYSTEM.....	CMS	2R01 NS09244-04	69,005
COOKE, W DONALD	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07061-10	76,375
CORRADINO, ROBERT A.	SYNTHESIS AND FUNCTION OF CALCIUM BINDING PROTEIN.....	GMB	5R01 AM15355-05	15,750
EDELSTEIN, STUART J.	SUBUNIT INTERACTIONS AND HEMOGLOBIN PATHOLOGY.....	BBCA	5R01 HL13591-05	59,954
EISNER, THOMAS	SECRETIONS OF ARTHROPODS.....	TMP	2R01 AI02908-16	61,136
ELDEFRAWI, AMIRA T.	TOXICOLOGICAL STUDIES ON INSECT ACH-RECEPTORS.....	TOX	1R01 AI12543-01	43,507
ELDEFRAWI, MOHYEE E.	DRUG MOLECULAR INTERACTIONS WITH CHOLINERGIC RECEPTORS.....	PHRA	1R01 NS11280-01A1	38,059
ELLIOT, JOHN M.	SYNTHESIS AND ABSORPTION OF VITAMIN B12.....	NTN	5R01 AM14165-05	26,606
ELSON, ELLIOT L.	DYNAMICS OF BIOPHYSICAL MEMBRANE PROCESSES.....	BBCB	1R01 GM21661-01	96,031
ELSON, ELLIOT L.	BIOPOLYMERIC TRANSCONFORMATIONS BY SMALL PERTURBATION.....	BBCB	1R01 GM22082-01	55,066
FEIGENSON, GERALD W.	LIPID-PROTEIN INTERACTIONS AND CALCIUM TRANSPORT.....	BBCB	1R01 HL18255-01	53,229
FERGER, MARTHA F.	AMINO ACIDS, POLYPEPTIDES, AND RELATED COMPOUNDS.....	PC	5R01 HL11680-09	56,489
FESSENDEN-RADEN, JUNE M.	ROLE OF ADENYL CYCLASE IN NORMAL AND CANCER CELLS.....	BIO	5R01 CA14713-03	33,022
FINK, GERALD R.	REGULATION OF HISTIDINE BIOSYNTHESIS IN YEAST.....	GEN	5R01 MS15408-08	46,572
FITCHEN, DOUGLAS B.	HEME PROTEIN SOLUTION STRUCTURE FROM RAMAN SPECTRA.....	BBCB	1R01 AM18048-01	47,412
FOOTE, ROBERT H.	MATURATION, METABOLISM AND AGING OF GAMETES.....	REB	5R01 HD03471-11	31,363
GAYLOR, JAMES L.	STEROL BIOSYNTHESIS.....	PC	2R01 AM10767-09	100,235
GIBSON, QUENTIN H.	KINETICS OF ENZYMES AND HEMOGLOBIN LIGAND REACTIONS.....	BBCA	2R01 GM14276-11	127,564
HABEL, ROBERT E.	ILLUSTRATED VETERINARY ANATOMICAL DICTIONARY.....	BCM	1R01 LM02496-01	23,758
HAINES, MICHAEL R.	OCCUPATION AND THE ECONOMIC DETERMINANTS OF FERTILITY.....	POP	5R01 HD07599-02	16,574
HALLBERG, RICHARD L.	DNA AND PROTEIN METABOLISM IN OOCYTES.....	CBY	2R01 HD06448-04	38,419
HAMMES, GORDON G.	KINETICS OF PHYSIOLOGICALLY IMPORTANT REACTIONS.....	BBCA	5R01 GM13292-11	101,783
HANSEL, WILLIAM	THE ROLE OF ESTROGEN IN CONTROL OF THE FEMALE CYCLE.....	REB	2R01 HD06718-04	78,740
HEPPEL, LEON A.	MECHANISMS OF ACTIVE TRANSPORT AND MEMBRANE ENZYMES.....	BIO	5R01 AM11789-08	62,937
HESS, GEORGE P.	INTERRELATIONSHIP BETWEEN PROTEIN STRUCTURE AND FUNCTION.....	BIO	5R01 GM04842-19	41,467
HESS, GEORGE P.	CHEMICAL REACTIONS IN TRANSMISSION OF NERVE IMPULSES.....	BIO	5R01 NS08527-06	40,136
HINKLE, PETER C.	ENERGY CONSERVATION IN HEART MITOCHONDRIA.....	BIO	5R01 HL14483-05	46,240
HOARD, JAMES L.	STEREOCHEMISTRY OF HEMES AND RELATED MODEL SYSTEMS.....	BBCA	2R01 GM09370-14	44,150
HOUP, T RICHARD	CONTROL OF FOOD INTAKE: GLUCOSTATIC AND GI FACTORS.....	NTN	1R01 AM17601-01A1	32,159
JAGENDORF, ANDRE T.	MEMBRANE-ASSOCIATED PHOSPHORYLATION.....	BIO	5R01 GM14479-09	54,379
KELLER, ELIZABETH B.	THE BIOSYNTHESIS OF RNAS: MECHANISMS AND CONTROLS.....	PC	5R01 GM10791-13	58,019
KIM, MYUNGHWAN	STUDY OF CANCER CELL KINETICS AND CHEMOTHERAPY.....	COM	1R01 CA16259-01	29,790
LEWIS, AARON	TUNABLE LASER RAMAN SPECTROSCOPY OF THE VISUAL PROCESS.....	VISB	1R01 EY01377-01	136,960
LEWIS, BERTHA A.	ROLE OF PROTEIN STRUCTURE IN AMINO ACID AVAILABILITY.....	NTN	5R01 AM14762-05	28,958
LOUDON, G MARC	A NEW REAGENT FOR PROTEIN SEQUENCING AND MODIFICATION.....	MCHA	5R01 GM20315-03	34,327
MC CORMICK, DONALD B.	INVESTIGATIONS OF FLAVIN SYSTEMS.....	BIO	5R01 AM04585-15	41,639
MC FARLAND, WILLIAM N.	ENVIRONMENTAL LIGHT AND VISUAL PIGMENTS.....	VISB	2R01 EY00323-10	54,127
MC LAFFERTY, FRED W.	MASS SPECTROMETRY IN BIOMEDICAL RESEARCH.....	MCHB	5R01 GM16609-07	94,488
MEINWALD, JERROLD	CHEMISTRY OF ARTHROPOD SECRETIONS.....	MCHA	5R01 AI12020-02	58,783
MOFFAT, JOHN K.	OXYGEN TRANSPORT: HEMOGLOBINS WITH MODIFIED HEMES.....	BBCB	1R01 HL18309-01	47,500



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
MOFFAT, JOHN K.....	SICKLE CELL HEMOGLOBIN AGGREGATION: PHYSICAL STUDIES.....	BBCB	1R01 HL18817-01	27,074
MORAFF, HOWARD.....	COMPUTER RESOURCE RESEARCH AND DEVELOPMENT.....	COM	5P07 RR00326-09	43,978
MORRISON, GEORGE H.....	ANALYSIS OF TRACE ELEMENTS IN BIOLOGICAL SYSTEMS.....	MCHB	5R01 GM19905-03	50,310
NESHEIM, MALDEN C.....	NUTRITIONAL NEEDS AS INFLUENCED BY GENETIC VARIATION.....	NTN	5R01 AM06850-13	32,284
O'BRIEN, RICHARD D.....	MECHANISMS OF INSECTICIDE SELECTIVITY.....	TOX	5R01 ES00901-15	75,274
O'BRIEN, RICHARD D.....	ATTEMPTED ISOLATION OF ACETYLCHOLINE RECEPTOR.....	TOX	5R01 NS09144-06	63,499
PODLESKI, THOMAS R.....	MOLECULAR CONTROL OF EXCITABILITY OF MUSCLE MEMBRANE.....	MBY	5R01 NS10638-03	54,475
POPPENSIEK, GEORGE C.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05462-13	91,487
RACKER, EFRAIM.....	ENERGY METABOLISM IN NORMAL AND TUMOR CELLS.....	BIO	5R01 CA08964-09	235,301
RACKER, EFRAIM.....	MEMBRANES IN NORMAL AND CANCER CELLS.....	CAP	5P01 CA14454-02	123,817
ROBERTS, JEFFREY W.....	GENE CONTROL IN INFECTION & LYSOGENY BY PHAGE LAMBDA.....	GEN	1R01 GM21941-01	57,336
ROE, DAPHNE A.....	FETAL EFFECTS OF SULFOCONJUGATION IN PREGNANT RATS.....	TOX	5R01 HD07240-06	39,156
SALPETER, MIRIAM M.....	ULTRAHIGH RESOLUTION AUTORADIOGRAPHY.....	CBY	5R01 GM10422-13	46,116
SALPETER, MIRIAM M.....	FUNCTIONAL ULTRASTRUCTURE OF THE NERVOUS SYSTEM.....	NEUA	2R01 NS09315-06	77,992
SCHERAGA, HAROLD A.....	INTERACTIONS IN SYNTHETIC POLYAMINO ACIDS.....	BBCB	5R01 AM08465-10	49,004
SCHERAGA, HAROLD A.....	MOTION AND PROXIMITY RELATIONS IN POLYPEPTIDES.....	BBCB	5R01 AM13743-06	38,817
SCHERAGA, HAROLD A.....	INTERNAL BONDING IN PROTEINS.....	BBCB	5R01 GM14312-21	84,244
SCHERAGA, HAROLD A.....	EQUILIBRIA IN THE FIBRINOGEN-FIBRIN CONVERSION.....	BBCA	5R01 HL01662-22	52,075
SCHULTZ, ARTHUR G.....	THE TOTAL SYNTHESIS OF VERNOLEPIN AND VERNOMENIN.....	MCHA	1R01 CA16624-01	46,741
SCHULTZ, ARTHUR G.....	VINYL SULFIDES IN ORGANIC SYNTHESIS.....	MCHB	5R01 GM21159-02	35,382
SCHWARK, WAYNE S.....	NEUROCHEMICAL CORRELATES OF EXPERIMENTAL CRETINISM.....	END	5R01 NS11137-03	29,404
SCHWARTZ, RUTH.....	STABLE 26MG AND 28MG IN MEASUREMENT OF MG UTILIZATION.....	NTN	1R01 AM18569-01	76,361
SCOTT, FREDRIC W.....	DEVELOPMENT OF HERPES VIRUS VACCINES.....	VR	5R01 RR00885-02	37,548
SCOTT, MILTON I.....	BIOCHEMICAL MODES OF ACTION OF SELENIUM AND VITAMIN E.....	SSS	1R01 AM17208-01A1	56,087
SCOTT, NORMAN R.....	STUDY ON THERMOREGULATION.....	AFY	5R01 GM19716-02	42,360
SELLERS, ALVIN F.....	BLOOD FLOW AND ABSORPTION IN THE RUMINANT STOMACH.....	PHY	5R01 AM04679-15	65,479
SEMMEHLACK, MARTIN F.....	NATURAL PRODUCT SYNTHESSES.....	MCHA	2R01 A108687-07	68,570
SEMMEHLACK, MARTIN F.....	HIGH RESOLUTION MASS SPECTROMETER FACILITY.....	MCHB	3P07 RR00355-08S1	43,342
SIEGEL, BENJAMIN M.....	BIOMOLECULAR HIGH RESOLUTION ELECTRON MICROSCOPY.....	MBY	5R01 GM12873-11	96,286
SIEGEL, BENJAMIN M.....	BIOMOLECULAR STRUCTURE BY ELECTRON MICROSCOPY.....	MBY	5R01 GM16195-07	49,605
SRB, ADRIAN M.....	DEVELOPMENTAL GENETIC STUDIES OF NEUROSPORA.....	GEN	2R01 GM12953-26	41,248
STEVENS, CHARLES E.....	GASTROINTESTINAL ABSORPTION IN THE HERBIVORE.....	PHY	3R01 AM09280-10S1	8,652
STEVENS, CHARLES E.....	COMPARATIVE STUDIES OF LARGE INTESTINAL FUNCTION.....	PHY	2R01 AM09280-11	36,435
STEVENSON, JAMES F.....	PERMEABILITY MEASUREMENTS FOR HOLLOW FIBER MEMBRANES.....	BBCB	5R01 AM17009-02	10,453
STYCOS, J MAYONE.....	FEMALE COLLEGE GRADUATE'S SEX ROLE, MODERNITY, FERTILITY.....	POP	1R01 HD08518-01	30,330
SUCI, GEORGE J.....	COGNITIVE-SEMANTIC BASES FOR EARLY LANGUAGE.....	DBR	5R01 HD08246-02	15,467
TAPPER, DANIEL N.....	NEURAL CORRELATES OF SKIN SENSIBILITY.....	NEUB	5R01 NS07505-07	36,374
WASSERMAN, ROBERT H.....	INTESTINAL ABSORPTION OF MINERAL IONS.....	GMB	5R01 AM04652-15	116,082
WILKINSON, CHRISTOPHER F.....	MICROSOMAL ENZYMES IN INSECTS.....	TMP	2R01 ES00400-07	87,242
WILSON, DAVID B.....	REGULATION OF GALACTOSE METABOLISM IN E. COLI.....	MBC	5R01 AM11923-08	40,771
WINTER, ALEXANDER J.....	INVESTIGATION OF VENEREAL DISEASE IN ANIMAL MODELS.....	SSS	5R01 A11160-08	52,793
WRIGHT, LEMUEL D.....	PANTOTHENIC ACID AND/OR PANTETHEINE BINDING PROTEIN.....	BIO	5R01 AM16554-03	11,188
WU, RAY.....	ANALYSIS OF DNA SEQUENCE IN POLYOMA AND SV40 TUMOR VIRUS.....	VR	5R01 CA14989-02	96,112
WU, RAY.....	PROMOTER AND OPERATOR SITE DNA SEQUENCE ANALYSIS.....	BIO	5R01 GM18887-04	50,926
ZILVERSMIT, DONALD B.....	FAT METABOLISM AND EXPERIMENTAL ATHEROSCLEROSIS.....	NTN	5R01 HL10933-10	96,918
ZILVERSMIT, DONALD B.....	STUDY OF LIPID TRANSPORT.....	MET	5R01 HL10940-10	93,055
ORGANIZATION TOTAL	96	5,483,130		
<b>ITHACA COLLEGE      ZIP CODE 14850</b>				
PASTERNAK, ROBERT F.....	FAST REACTIONS IN SOLUTION.....	BBCB	2R01 GM17574-04	28,016
ORGANIZATION TOTAL	1	28,016		
<b>LAKE PLACID</b>				
<b>TISSUE CULTURE ASSOCIATION-W. ALTON JONES CELL SCIENCE CENTER      ZIP CODE 12946</b>				
KAIGHN, M EDWARD.....	MONOLAYER CULTURES OF HUMAN PROSTATIC CARCINOMA.....	SRC	5R26 CA15766-02	89,901
ORGANIZATION TOTAL	1	89,901		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
<b>LARCHMONT</b>				
<b>INDIVIDUAL AWARD—FRIEDEN, NANCY M.      ZIP CODE 10538</b>				
FRIEDEN, NANCY M. ....	PHYSICIANS AND PUBLIC HEALTH IN RUSSIA, 1856-1906 .....	SSS	1R01 LM02590-01	14,160
ORGANIZATION TOTAL	1      14,160			
<b>MANHASSET</b>				
<b>NORTH SHORE UNIVERSITY HOSPITAL      ZIP CODE 11030</b>				
BIRNBAUM, GARY .....	STUDIES ON MULTIPLE SCLEROSIS .....	IMB	5R01 NS11698-02	18,260
TEICHBERG, SAUL .....	AXONAL TRANSPORT OF PROTEIN AND MEMBRANE IN NEURONS .....	NEUB	1R01 NS12148-01	44,890
ORGANIZATION TOTAL	2      63,150			
<b>NEW YORK</b>				
<b>AMERICAN CANCER SOCIETY      ZIP CODE 10017</b>				
ARJE, SIDNEY L. ....	NATIONAL CONFERENCE ON ADVANCES IN CANCER MANAGEMENT .....	NSS	1R13 CA17469-01	50,000
MILDER, JACK W. ....	CONFERENCE ON NUTRITION IN THE CAUSATION OF CANCER .....	NSS	1R13 CA17724-01	59,000
ORGANIZATION TOTAL	2      109,000			
<b>AMERICAN HEALTH FOUNDATION      ZIP CODE 10019</b>				
PEACOCK, PETER B. ....	CANCER CONTROL AND PREVENTION PROGRAM .....	CGG	1R18 CA17867-01	709,131
WEISBURGER, JOHN H. ....	MECHANISMS OF CANCER INDUCTION IN THE DIGESTIVE TRACT .....	PTHB	5R01 CA14298-03	128,290
WEISBURGER, JOHN H. ....	MECHANISM OF ACTION OF COLON CARCINOGENESIS .....	SRC	5R26 CA15400-03	137,320
WYNDER, ERNST L. ....	ENVIRONMENTAL CARCINOGENESIS .....	CAK	2P01 CA12376-04	677,430
WYNDER, ERNST L. ....	METABOLIC EPIDEMIOLOGY OF COLON CANCER .....	SRC	5R26 CA16382-02	170,423
WYNDER, ERNST L. ....	CORE SUPPORT, CANCER CENTER PROGRAM .....	CAK	1P01 CA17613-01	1,106,349
ORGANIZATION TOTAL	6      2,928,943			
<b>AMERICAN HEART ASSOCIATION      ZIP CODE 10010</b>				
LABARTHE, DARWIN R. ....	TRAINING WORKSHOP IN CARDIOVASCULAR EPIDEMIOLOGY .....	TEC	1R13 HL18810-01	5,539
ORGANIZATION TOTAL	1      5,539			
<b>AMERICAN MUSEUM OF NATURAL HISTORY      ZIP CODE 10024</b>				
ARONSON, LESTER R. ....	BEHAVIORAL EFFECTS OF SELECTED DENERVATION .....	EXP	2R01 HD00348-14	48,276
ORGANIZATION TOTAL	1      48,276			
<b>AMERICAN THORACIC SOCIETY      ZIP CODE 10019</b>				
PIERCE, ALAN K. ....	CONFERENCE ON SCIENTIFIC BASIS OF RESPIRATORY THERAPY .....	NSS	3R13 HL16740-01S1	2,600
ORGANIZATION TOTAL	1      2,600			
<b>BETH ISRAEL MEDICAL CENTER      ZIP CODE 10003</b>				
CHRYSSANTHOU, CHRYSSANTHOS P. ....	BETH ISRAEL MEDICAL CENTER ANIMAL RESOURCE RENOVATION .....	AR	1P06 RR00845-01	147,668
EISENSTEIN, ALBERT B. ....	DIETARY EFFECTS ON CARBOHYDRATE METABOLISM .....	NTN	5R01 AM16507-03	36,186
ORGANIZATION TOTAL	2      183,854			
<b>BRONX-LEBANON HOSPITAL CENTER      ZIP CODE 10456</b>				
EVIATAR, LYDIA .....	OTONEUROLOGICAL EVALUATION OF INFANTS AND CHILDREN .....	CMS	2R01 NS10238-04	76,794
ORGANIZATION TOTAL	1      76,794			
<b>CENTER FOR POLICY RESEARCH      ZIP CODE 10027</b>				
TREIMAN, DONALD J. ....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05739-03	71,795
ORGANIZATION TOTAL	1      71,795			
<b>CITY UNIVERSITY OF NEW YORK—BROOKLYN COLLEGE      ZIP CODE 11210</b>				
DONNEE, LOUISE H. ....	VISUAL PERCEPTUAL DEVELOPMENT IN INFANCY .....	DBR	1R01 HD08706-01	12,876
GUTTMAN, RITA .....	EXCITATION PROCESS IN NERVE .....	PHY	1R01 NS12272-01	26,898
HURST, DONALD .....	BIOMEDICAL SCIENCES SUPPORT GRANT .....	NSS	5S05 RR07119-04	20,641
LI, HSUEH-JEI .....	INTERACTION BETWEEN DNA AND MODEL PROTEINS .....	BBCA	1R01 GM21481-01	44,540

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
OSMAN, ELI	DETECTION AND RECOGNITION IN AUDITION AND VISION	CMS	5R01 NS10843-02	19,242
SCHUSTER, FREDERICK L	CYTOPATHOLOGY INDUCED BY NAEGLERIA INFECTIOUS AGENT	TMP	2R01 AI12058-02	24,052
ORGANIZATION TOTAL	6 148,249			
<b>CITY UNIVERSITY OF NEW YORK—COLLEGE OF NEW YORK ZIP CODE 10031</b>				
BIRKE, RONALD L	REDOX CHEMISTRY OF VITAMIN B12 DERIVATIVES	MCHB	1R01 AM18440-01	37,075
GROSSFIELD, JOSEPH	GENETIC DISSECTION OF BEHAVIOR IN DROSOPHILA	GEN	1R01 GM21630-01	38,483
MAZUR, ABRAHAM	BIOCHEMICAL PROPERTIES OF CROSS-LINKED HEMOGLOBINS	HEM	5R01 HL14885-03	37,380
MAZUR, ABRAHAM	STRUCTURE AND PROPERTIES OF SIX HEMOGLOBINS	HEM	5R01 HL15383-03	43,891
RUSSELL, CHARLOTTE S	BIOSYNTHESIS OF UROPORPHYRINOGEN III	SSS	1R01 AM17890-01	27,304
SCHIFF, GARY	THE POLITICS OF POPULATION POLICY: THE CASE OF ISRAEL	POP	1R01 HD09165-01	32,946
SCHULZ, HORST H	FATTY ACID METABOLISM IN THE HEART AND ITS REGULATION	PC	1R01 HL18089-01	54,497
THAU, FREDERICK E	MODERN CONTROL THEORY APPLIED TO POPULATION CONTROL	COM	5R01 HD06040-02	53,909
ORGANIZATION TOTAL	8 325,485			
<b>CITY UNIVERSITY OF NEW YORK—GRADUATE SCHOOL AND UNIVERSITY CENTER ZIP CODE 10036</b>				
PARKER, RONALD K	LEARNING AND COGNITIVE DEVELOPMENT IN CHILDREN	DBR	5R01 HD05089-05	83,744
PROSHANSKY, HAROLD M	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07126-04	37,234
ORGANIZATION TOTAL	2 120,978			
<b>CITY UNIVERSITY OF NEW YORK—HERBERT H. LEHMAN COLLEGE ZIP CODE 10468</b>				
SALTZSTEIN, HERBERT D	SOCIAL INFLUENCES ON CHILDREN'S STANDARDS	DBR	5R01 HD06519-03	37,599
WALLACE, SUSAN S	MODIFICATION OF X-RAY INDUCED DAMAGES IN PHAGE T4	RAD	2R01 CA12693-04	53,315
ORGANIZATION TOTAL	2 90,914			
<b>CITY UNIVERSITY OF NEW YORK—HUNTER COLLEGE ZIP CODE 10021</b>				
ABBOTT, EDWIN H	THE GENERAL INTERMEDIATE FOR VITAMIN B-6 CATALYSIS	MCHB	2R01 AM15705-04	43,015
BATES, DANIEL G	POPULATION, FAMILY AND PRODUCTION IN RURAL IRAN	POP	1R01 HD08892-01	15,517
BEVERIDGE, DAVID L	SOLVENT EFFECTS ON BIOMOLECULAR CONFORMATIONAL STABILITY	BBCA	1R01 NS12149-01	43,385
CHAPPELL, RICHARD L	NEURAL INTERACTIONS OF THE RETINA	VISB	2R01 EY00777-04A1	43,607
FRIEDMAN, S MARVIN	STRUCTURE AND FUNCTION OF MEMBRANE-BOUND RIBOSOMES	MBC	1R01 GM22164-01	51,743
HANDLER, EVELYN E	ERYTHROPOIESIS IN ACUTE MYELOGENOUS LEUKEMIA	HEM	5R01 CA13773-03	53,542
HASCHMEYER, AUDREY E	MOLECULAR BASIS OF THYROID ACTION IN DEVELOPMENT	END	5R01 HD04670-05	73,936
HERSKOWITZ, IRWIN H	BIBLIOGRAPHY ON THE GENETICS OF DROSOPHILA	GEN	1R01 GM20705-01	21,666
KRAKOW, JOSEPH S	RNA SYNTHESIS BY AZOTOBACTER VINELANDII RNA POLYMERASE	PC	2R01 GM18673-04	69,661
LICHTER, ROBERT L	NATURAL ABUNDANCE 15N NMR STUDIES FOR BIOCHEMISTRY	BBCB	5R01 GM21148-02	38,360
MAWE, RICHARD C	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07109-07	29,815
PENNER, MERRILYNN J	TEMPORAL ANALYSIS	CMS	1R01 NS12085-01	44,570
RUDNER, RIVKA	MACROMOLECULAR ASPECTS OF SYNCHRONOUS CELL DIVISION	MBC	2R01 GM16059-07	44,417
SAGER, RUTH	CYTOPLASMIC GENETIC CONTROL SYSTEMS	GEN	3R01 GM13970-08S1	30,782
TOMASZ, MARIA	BASIS OF THE ANTIBIOTIC ACTION OF THE MITOMYCINS	MBC	2R01 AI08325-07	11,142
ORGANIZATION TOTAL	15 615,158			
<b>CITY UNIVERSITY OF NEW YORK—MOUNT SINAI SCHOOL OF MEDICINE ZIP CODE 10029</b>				
AARONSON, ROBERT P	BIOCHEMICAL STUDIES OF THE NUCLEAR PORE COMPLEX	SSS	1R01 GM21950-01	56,688
ABRAMSON, RUTH G	MICROPUNCTURE STUDY OF URATE TRANSPORT IN RAT KIDNEY	GMB	5R01 AM12872-07	90,458
ACS, GEORGE	STUDIES ON CHEMOTHERAPEUTIC DEOXYRIBONUCLEOSIDES	VR	5R01 CA16890-02	78,675
BARKA, TIBOR	SALIVARY GLAND HYPERPLASIA AND HYPERTROPHY	DEN	5R01 CA11155-07	99,474
BARKA, TIBOR	POSTNATAL DIFFERENTIATION OF THE SUBMANDIBULAR GLAND	SSS	5R01 CA17038-02	55,586
BEATTIE, DIANA S	SYNTHESIS OF MITOCHONDRIAL PROTEIN	PC	5R01 HD04007-06	27,678
BENTLEY, PETER J	PHARMACOLOGY OF LENTICULAR ION TRANSPORT	VISA	5R01 EY01278-02	28,357
BERL, SOLL	AMINO ACIDS & PROTEINS IN BRAIN STRUCTURE & FUNCTION	NEUB	5R01 NS11824-02	71,959
BERMAN, A J	PURPOSIVE MOVEMENT IN THE ABSENCE OF SENSORY FEEDBACK	NEUB	7R01 NS12330-01	56,448
BRODSKY, WILLIAM A	RENAL TRANSPORT MECHANISMS	GMB	5R01 AM16928-02	74,808
CANDIA, OSCAR A	ELECTROLYTE AND FLUID TRANSPORT IN OCULAR MEMBRANES	VISA	5R01 EY00160-06	105,549
CHALMERS, THOMAS C	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00071-12	742,557
CHURCH, JACOB	RENAL, VASCULAR AND PULMONARY STRUCTURE IN DISEASE	PTHA	5R01 AM00918-20	111,274
COHEN, BERNARD	THE OCULOMOTOR SYSTEM AND BODY POSTURAL MECHANISMS	NEUA	2R01 NS00294-21A2	90,695
DE SALEGUI, MIRIAM	ANALYSIS OF CILIOINHIBITORY CYSTIC FIBROSIS FACTORS	SSS	1R01 AM18060-01	68,020
EGGENA, PATRICK	NEUROHYPOPHYSEAL HORMONE SECRETION AND ACTION	GMB	2R01 AM15622-04	49,660



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
FRIEND, CHARLOTTE	FILTERABLE AGENTS AND TUMOR INDUCTION IN MICE	VR	2R01 CA10000-09	132,453
FRIEND, CHARLOTTE	CONTROL MECHANISMS OF DIFFERENTIATION AND MALIGNANCY	PTHB	2R01 CA13047-04	145,418
GABRILOVE, J. LESTER	GYNECOMASTIA: HORMONAL AND TESTICULAR ABNORMALITIES	END	5R01 HD07685-02	68,852
GARRO, ANTHONY J.	REGULATION OF LYSOGENY IN BACTERIOPHAGE PH105	GEN	1R01 GM21541-01	76,482
GITLOW, STANLEY E.	CATECHOLAMINE METABOLISM IN HYPERTENSIVE DISEASES	PHRA	5R01 HL12648-06	100,868
GOLDFARB, JOSEPH	USE AND DISUSE OF SPINAL PATHWAYS	NEUB	7R01 NS12197-01	59,851
GORLIN, RICHARD	CARDIOVASCULAR RESEARCH PROJECT	NSS	1R01 HL18033-01	52,087
GORLIN, RICHARD	CARDIOVASCULAR RESEARCH PROJECT	NSS	5R01 HL18033-02	133,098
GREEN, JACK P.	ACH TURNOVER AND CHOLINE METABOLISM IN THE CNS	PHRA	5R01 NS08829-07	106,833
GREENBERG, MICHAEL L.	KINETICS OF CELL TURNOVER IN LEUKEMIA	PTHB	2R01 CA10515-08	67,681
GURPIDE, ERLIO	STERIOD DYNAMICS IN HUMAN ENDOMETRIAL CANCER	END	5R01 CA15648-02	60,900
GURPIDE, ERLIO	STUDY OF DYNAMICS OF STEROID HORMONES	REB	5R01 HD07197-03	116,770
HENLEY, WALTER L.	PATHOGENIC MECHANISMS OF CHRONIC EYE DISEASE	VISA	5R01 EY00145-06	96,516
HIRSCHHORN, KURT	STUDY OF PROBLEMS IN CLINICAL GENETICS	SSS	5P01 GM19443-04	560,748
HIRSCHHORN, KURT	CELLULAR ASPECTS OF HUMAN GENETICS AND IMMUNOLOGY	GEN	5R01 HD02552-09	280,251
HIRSCHMAN, SHALOM Z.	STUDIES ON HEPATITIS ASSOCIATED ANTIGEN	PTHB	3R01 AI11472-01A1S2	6,873
HIRSCHMAN, SHALOM Z.	STUDIES ON HEPATITIS ASSOCIATED ANTIGEN	PTHB	5R01 AI11472-02	28,133
HOLLAND, JAMES F.	SPECIALIZED CANCER CENTER	CAK	5P01 CA15936-02	1,461,261
HOLLAND, JAMES F.	ACUTE LEUKEMIA GROUP B OPERATIONS OFFICE	CCI	2R10 CA16118-02	444,626
KATSOYANNIS, PANAYOTIS G.	SYNTHETIC INSULINS AND ANALOGS	MCMA	3R01 AM12925-06S1	5,134
KATSOYANNIS, PANAYOTIS G.	SYNTHETIC INSULINS AND ANALOGS	MCMA	5R01 AM12925-07	91,330
KATZ, ARNOLD M.	ACTIONS OF DRUGS AND IONS ON CARDIAC MEMBRANES	CVA	2R01 HL13191-05	130,350
KATZ, ARNOLD M.	CONTROL OF CALCIUM FLUXES ACROSS CARDIAC MEMBRANES	SRC	1R01 HL18801-01	64,118
KEHOE, J. MICHAEL	AN IMMUNOCHEMICAL STUDY OF HUMAN GAMMAGLOBULINS	ALY	5R01 AI09810-06	72,423
KILBOURNE, EDWIN D.	INFLUENZA VIRUS AND EXPERIMENTAL INFLUENZA	VR	2R01 AI09304-07	219,427
KIRCHBERGER, MADELEINE A.	CAMP DEPENDENT PROTEIN KINASE IN CARDIAC CONTRACTION	CVA	5R01 HL15764-02	48,303
KNITTLE, JEROME L.	EFFECT OF EARLY NUTRITION ON GROWTH AND DEVELOPMENT	NTN	5R01 HD03326-08	117,002
KOFFLER, DAVID	TISSUE INJURY IN SYSTEMIC LUPUS ERYTHEMATOSUS	PTHB	2R01 AM13721-06	52,121
KOFFLER, DAVID	IMMUNO-DIAGNOSIS OF OVARIAN CARCINOMA	IMB	5R01 CA14297-03	61,944
KORITZ, SEYMOUR B.	ADRENAL METABOLISM POSSIBLY RELATED TO ACTH ACTION	END	5R01 AM13361-08	85,167
KRAKOFF, LAWRENCE R.	RENIN AND VASCULAR HYPERREACTIVITY IN HYPERTENSION	CVB	5R01 HL13595-05	25,829
KRAKOFF, LAWRENCE R.	PATHOGENESIS OF GLUCOCORTICOID HYPERTENSION	CVB	5R01 HL16847-02	32,099
KRIEGER, DOROTHY T.	CENTRAL NERVOUS SYSTEM-PITUITARY-ADRENAL INTERRELATIONS	NEUA	5R01 NS02893-12	97,496
KRIEGER, DOROTHY T.	CENTRAL NERVOUS SYSTEM-PITUITARY-ADRENAL INTERRELATIONS	NEUA	2R01 NS02893-13	95,549
KRULWICH, TERRY A.	INDUCIBLE ENZYMES AND SUGAR TRANSPORT IN ARTHROBACTER	MBC	5R01 AM14663-05	35,364
KUPFER, SHERMAN	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05653-08	255,345
LANGER, ARTHUR M.	INORGANIC PARTICLES IN CIGARETTES AND CIGARETTE SMOKE	TOX	5R01 ES00797-02	48,426
LEFEVRE, MARIAN E.	CORRELATION OF ION TRANSPORT WITH METABOLISM	PHY	5R01 AM13953-05	44,251
LEONARD, CHRISTIANA M.	NEURAL SUBSTRATE OF BEHAVIORAL DEVELOPMENT	EXP	7R01 NS12458-01	45,568
LEOPOLD, IRVING H.	CLINICAL OUTPATIENT CENTER FOR OCULAR PHARMACOLOGY	SRC	3P15 EY00404-08S1	66,646
LI, HENG-CHUN	STUDIES ON THE AMIDE TRANSFERASES	BIO	5R01 GM19271-02	33,217
LI, SHOEI-LUNG	ANTITUMOR LECTINS RICIN ABRIN AND MOMORDIN	BIO	1R01 CA18621-01	34,051
LIEBER, CHARLES S.	BIOCHEMICAL AND FINE STRUCTURAL EFFECTS OF ETHANOL	MET	5R01 AM12511-07	54,983
MAKER, HOWARD S.	MICROCHEMISTRY AND CHEMOTHERAPY OF BRAIN TUMORS	ET	5R01 CA12166-03	52,760
MILVY, PAUL	RADIOPROTECTION AND SENSITIZATION IN DNA AND BACTERIA	BBCB	7R01 CA16958-01	60,199
MITTAG, THOMAS W.	ROLE OF ACH IN THE CORNEA AND IN OCULAR PRESSURE	PHRA	5R01 EY01243-02	47,974
MITTAG, THOMAS W.	DRUG EFFECTS ON MEMBRANE-BOUND ENDPATE CHOLINESTERASE	PHRA	2R01 NS10124-04	56,948
NICOLIS, GIORGIO L.	HORMONAL STEROIDS IN HUMAN ADRENAL VENOUS BLOOD	END	5R01 AM16317-02	45,568
NIEMETZ, JULIAN	PROCOAGULANT ACTIVITY OF LEUKOCYTES	HEM	5R01 HL13155-06	22,699
ONTELL, MARCIA R.	MUSCLE SATELLITE CELL: REACTION TO DISEASE AND TRAUMA	PTHA	1R01 NS11835-01	46,196
ORLOWSKI, MARIAN	5-OXOPROLINE, AMINOACIDURIAS, AND MENTAL RETARDATION	MET	5R01 AM17113-02	42,480
PALESE, PETER	STUDIES WITH SYNTHETIC NEURAMINIDASE SUBSTRATES	VR	5R01 AI11823-02	61,270
PAPATESTAS, ANGELOS E.	THE EFFECTS OF THYMECTOMY IN ONCOGENESIS IN HUMANS	PTHB	5R01 CA14827-02	27,964
PERTSEMLIDIS, DEMETRIUS	HUMAN BILE ACID METABOLISM AND CHOLESTEROL GALLSTONES	SGVB	5R01 AM17273-02	53,649
PODOS, STEVEN M.	IN VIVO INHIBITORS OF OCULAR PROSTAGLANDIN SYNTHESIS	VISA	1R01 EY01661-01	60,196
PUSZKIN, SAUL	NEUROTRANSMITTERS, SYNAPSOSES AND CONTRACTILE PROTEINS	NEUB	1R01 NS12467-01	77,180
RAYFIELD, ELLIOT J.	CARBOHYDRATE METABOLISM-INFECTION INTERRELATIONS	MET	1R01 AM18522-01	46,486
REINACH, PETER S.	EFFECT OF DIURETICS ON CORNEAL HYDRATION	VISA	1R23 EY01380-01	10,491
ROSENFELD, RICHARD E.	ABO ERYTHROBLASTOSIS	HEO	5R01 HD03972-17	93,162
RUBIN, ARNOLD D.	LYMPHOCYTE PROLIFERATION IN LYMPHOCYTIC LEUKEMIA	NEM	5R01 CA10478-08	102,955

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
SCHER, WILLIAM	MECHANISM OF ACTION OF DMSO IN FRIEND CELL MATURATION	CBY	1R01 CA16682-01	66,303
SCHWARTZ, IRVING L	MECHANISM OF ACTION OF PEPTIDE HORMONES	GMB	2R01 AM10080-10	86,880
SELIKOFF, IRVING J	ENVIRONMENTAL AGENTS: RELATION TO HUMAN HEALTH EFFECTS	SSS	5P10 ES00928-02	815,187
SETHY, VIMALA H	CENTRAL CHOLINERGIC SYSTEM IN EXTRAPYRAMIDAL DISORDERS	PTHA	1R01 NS12320-01	42,634
SILTZBACH, LOUIS E	FRACTIONATION OF NICKERSON-KVEIM TISSUE SUSPENSIONS	ALY	5R01 HL13853-16	114,686
STEINMAN, CHARLES R	ETIOLOGY OF RHEUMATOID ARTHRITIS RA AND SLE	GMA	5R01 AM15544-04	72,094
TAUB, ROBERT N	IMMUNOTHERAPY OF HUMAN LEUKEMIA (RENEWAL)	PTHB	2R01 CA12827-04	100,704
TAUB, ROBERT N	HETEROANTISERA FOR HUMAN LEUKEMIA-ASSOCIATED ANTIGENS	ET	5R01 CA14502-03	44,654
ULICK, STANLEY	DISORDERS OF STEROID HORMONE BIOSYNTHESIS	END	5R01 AM14040-07	53,359
VAN WOERT, MELVIN H	SEROTONIN METABOLISM IN MYOCLONUS AND EPILEPSY	PHRA	1R01 NS12341-01	60,587
WASSERMAN, LOUIS R	COOPERATIVE STUDY OF ACUTE LEUKEMIA	CCI	2R10 CA04457-16	236,903
WASSERMAN, LOUIS R	COOPERATIVE STUDY OF POLYCYTHEMIA VERA	CCI	5R10 CA10728-08	332,863
WASSERMAN, LOUIS R	LEUKEMIA CENTER PLATELET PROGRAM	CCI	2R10 CA11816-15A1	105,959
WAXMAN, SAMUEL	FOLIC ACID BINDING PROTEIN IN FOLATE METABOLISM	PHRB	5R01 AM16690-03	54,205
WAXMAN, SAMUEL	NOVEL TRANSPORT GLYCOPROTEINS IN HEPATOMA	SSS	5R01 CA14491-02	48,535
WEINREB, NEAL J	BIOCHEMICAL AND CLINICAL STUDIES IN GAUCHER'S DISEASE	MET	5R01 AM17529-02	62,486
WERTHER, J LAWRENCE	ABSORPTION OF CARCINOGENS AND MUCOSAL BARRIER FUNCTION	GMA	1R01 CA15541-01	51,786
WETMUR, JAMES G	RENATURATION AND HYBRIDIZATION OF NUCLEIC ACIDS	BBCA	7R01 GM22029-01	38,231
WOLF, BERNARD S	CEREBRAL VEINS—ANATOMIC AND RADIOLOGICAL CORRELATIONS	RAD	5R01 HL09913-10	20,971
YAGR, MELVIN D	PARKINSONS AND ALLIED DISEASES CLINICAL RESEARCH	NSPA	5P01 NS11631-02	750,859
YU, TS'AI-FAN	PURINE METABOLISM AND GOUTY ARTHRITIS	GMA	2R01 AM00162-24	72,680
ORGANIZATION TOTAL	97	11,764,473		
<b>CITY UNIVERSITY OF NEW YORK—QUEENS COLLEGE ZIP CODE 11367</b>				
BERKOWITZ, WILLIAM F	CONVERSION OF IRIDOIDS TO PROSTAGLANDINS	MCHA	1R01 GM22098-01	44,115
MICHELS, CORINNE A	YEAST: A MODEL FOR STUDYING REGULATION IN CANCER CELLS	MBY	1R01 CA18394-01	37,453
TROPP, BURTON E	A CHEMICAL REGULATOR OF PHOSPHOLIPID METABOLISM	MBC	5R01 GM21400-02	41,469
WASSERMAN, MARVIN	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07064-09	28,382
ORGANIZATION TOTAL	4	151,419		
<b>CITY UNIVERSITY OF NEW YORK—RICHMOND COLLEGE ZIP CODE 10301</b>				
NAIDER, FRED R	PEPTIDE TRANSPORT IN MICROORGANISMS	MBC	1R01 GM22086-01	25,000
ORGANIZATION TOTAL	1	25,000		
<b>CITY UNIVERSITY OF NEW YORK—YORK COLLEGE ZIP CODE 11432</b>				
HAMPTON, SUZANNE H	DEVELOPMENTAL BIOLOGY AND GAMETOGENESIS	REB	3R01 HD08695-01S1	8,366
HAMPTON, SUZANNE H	REPRODUCTIVE BIOLOGY OF MARMOSETS	REB	2R01 HD08695-02	37,364
ORGANIZATION TOTAL	2	45,730		
<b>COLUMBIA UNIVERSITY ZIP CODE 10027</b>				
ANDERSON, ETHEL I	INTERMEDIARY METABOLISM OF THE CORNEA	VISA	5R01 EY00699-05	52,429
AXEL, RICHARD	MOLECULAR CONTROL OF CHROMATIN TRANSCRIPTION	MBY	1R01 CA16346-01A1	81,135
BANCROFT, F CARTER	REGULATION OF GROWTH HORMONE MESSENGER RNA	MBY	5R01 GM21000-02	43,301
BANK, ARTHUR	COOPERATIVE STUDY OF ACUTE LEUKEMIA	CCI	2R10 CA12011-04	76,165
BASSETT, C ANDREW	BIOELECTRIC PHENOMENA CONTROLLING BONE GROWTH	AFY	3R01 AM07822-11S1	19,714
BASSETT, C ANDREW	BIOELECTRIC PHENOMENA CONTROLLING BONE GROWTH	AFY	2R01 AM07822-12	74,739
BENESCH, REINHOLD	AGING OF HEMOGLOBIN IN THE ERYTHROCYTES	HEM	5R01 HL06787-13	48,618
BENESCH, RUTH E	STUDY OF STRUCTURE AND FUNCTION IN HEMOGLOBINS	PC	5R01 HL05791-15	45,946
BENESCH, RUTH E	CHEMICAL MODIFICATION SICKLING INHIBITION OF HEMOGLOBIN	PC	1R01 HL17552-01	39,681
BERSOHN, RICHARD	BIFUNCTIONAL STUDIES OF PROTEINS	BBCB	5R01 GM19019-12	62,502
BETCHOK, SHERMAN	STUDIES ON PROTEINS OF PLASMA CELL CANCERS	BBCA	2R01 CA13014-04	65,634
BITO, LASZLO Z	OCULAR FLUID COMPOSITION AND OCULAR TISSUE PHYSIOLOGY	VIS	5R01 EY00333-09	67,235
BITO, LASZLO Z	THE CONTROL OF TISSUE-SENSITIVITY TO AUTONOMIC AGENTS	VISA	5R01 EY00402-08	49,313
BLANK, MARTIN	MEMBRANE CHANGES IN MAMMALIAN SPERMATOZOA	REB	5R01 HD06908-03	32,265
BLOOM, ARTHUR D	GENE FUNCTION IN CULTURED HUMAN LYMPHOCYTES	GEN	1R01 GM22052-01	93,450
BRADLEY, STANLEY E	INTRARENAL HETEROGENEITIES IN SHORT-NEPHRON DISORDER	GMB	5R01 AM16409-02	74,251
BRANDT, PHILIP W	CELL PHYSIOLOGY CORRELATED WITH ULTRASTRUCTURE	PHY	2R01 NS05910-09	50,255
BRASEL, JO A	NUTRITION AND CELL GROWTH	HED	5R01 HD07195-03	30,300
BRASEL, JO A	NUTRITION AND ADIPOCYTE GROWTH AND DEVELOPMENT	SSS	1R01 HD08965-01	76,146
BRESLOW, RONALD C	SYNTHESIS OF NOVEL CONJUGATED MOLECULES	MCHB	5R01 GM13651-10	71,779

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
BRESLOW, RONALD C.	BIOCHEMICAL MODEL REACTIONS.....	MCHA	5R01 GM18754-14	72,084
BRYANT, JOHN H.	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05449-14	131,074
BUDNER, STANLEY	CORRELATES OF ABORTION SEEKING UNDER A PERMISSIVE LAW.....	POP	2R01 HD07388-03	24,094
BUTLER, VINCENT P. JR.	DIGOXIN-SPECIFIC ANTIBODIES.....	ALY	5R01 HL10608-09	69,097
CAMPBELL, CHARLES J.	BASIC OPHTHALMIC RESEARCH PROGRAM.....	VSN	5P01 EY00396-08	152,895
CANFIELD, ROBERT E.	THE CHEMISTRY AND LOCALIZATION OF PROTEIN HORMONES.....	END	5R01 AM09579-10	133,444
CANNON, PAUL J.	CIRCULATORY FUNCTION AND ELECTROLYTE METABOLISM.....	PHY	2R01 HL10182-10	74,038
CANNON, PAUL J.	THE REGIONAL CIRCULATIONS.....	SRC	3R01 HL14148-04S1	108,500
CANTOR, CHARLES R.	CONFORMATION OF T-RNA AND MODEL OLIGONUCLEOTIDES.....	BBCB	2R01 GM14825-09	119,175
CANTOR, CHARLES R.	FLUORESCENCE AND CHEMICAL STUDIES ON RIBOSOMES.....	BBCB	5R01 GM19843-03	92,438
CARPENTER, MALCOLM B.	VESTIBULAR SYSTEM.....	NEUB	5R01 NS01538-17	44,810
CARPENTER, MALCOLM B.	ANATOMY OF BASAL GANGLIA AND RELATED NUCLEI.....	NEUB	5R01 NS04082-13	37,527
CHANG, CHU H.	COOPERATIVE STUDY OF RADIATION THERAPY.....	CCI	5R10 CA14060-03	26,420
CHARGAFF, ERWIN	CELLULAR CONTROL MECHANISMS.....	PC	5R01 CA12210-15	193,456
CHIEN, SHU	RHEOLOGICAL CHANGES IN HEMORRHAGIC SHOCK.....	CVB	5R01 HL06139-15	47,486
COLE, PATRICIA E.	RNA CONFORMATION AND PROTEIN-RNA RECOGNITION.....	MBY	3R01 GM21352-01S1	17,634
COLEMAN, D. JACKSON	ULTRASONIC EVALUATION OF OCULAR TISSUES.....	RAD	5R01 EY01218-02	70,238
COTE, LUCIEN J.	CATECHOLAMINES AND BEHAVIORAL CHANGES.....	NEUB	1R01 NS12397-01	48,207
CURNEN, MARY G.	CANCER RISK IN PROFESSIONAL & OCCUPATIONAL GROUPS.....	SOH	1R01 CA17480-01	98,128
DAILEY, BENJAMIN P.	DEUTERIUM NMR AS A PROBE OF MOLECULAR STRUCTURE.....	BBCB	1R01 GM22310-01	65,604
DESPOMMIER, DICKSON D.	FUNCTIONAL ANTIGENS OF TRICHINELLA SPIRALIS.....	TMP	5R01 AI10627-05	46,231
DISCHE, ZACHARIAS	STUDY OF CYSTIC FIBROSIS OF THE PANCREAS.....	GMA	5R01 AM02856-17	40,485
DISCHE, ZACHARIAS	ROLE OF POLYSACCHARIDES IN NEOPLASTIC DISEASE.....	PC	5R01 CA02075-21	25,593
DONN, ANTHONY	PHYSIOLOGICAL STUDIES OF THE LIVING CORNEA IN VITRO.....	VISA	5R01 EY00210-15	49,091
EAKINS, KENNETH E.	OCULAR EFFECTS OF PROSTAGLANDINS.....	VISA	3R01 EY00457-06S1	7,368
EAKINS, KENNETH E.	ROLE OF PROSTAGLANDINS IN OCULAR DISEASE.....	VISA	5R01 EY00457-07	86,220
EISENBERG, MAX A.	MECHANISM OF BIOTIN BIOSYNTHESIS.....	BIO	5R01 AM14450-05	54,561
ELWYN, DAVID H.	INTERORGAN MOVEMENTS OF AMINO ACIDS.....	NTN	7R01 AM18622-01	9,898
ELWYN, DAVID H.	INTERORGAN MOVEMENTS OF AMINO ACIDS.....	NTN	5R01 AM18622-02	46,710
ERLANGER, BERNARD F.	IMMUNOCHEMICAL STUDIES OF NUCLEIC ACIDS.....	ALY	5R01 AI06860-10	68,209
FAHN, STANLEY	IMMUNOHISTOCHEMICAL LOCALIZATION OF NEUROTRANSMITTERS.....	NEUA	1R01 NS12036-01	71,307
FERTIG, JOHN W.	STATISTICAL METHODS IN DENTAL RESEARCH.....	EDC	1R01 DE04068-01	45,906
FINCH, GERALD B.	POPULATION CHANGE AND POLITICAL CHANGE IN AMERICA.....	POP	1R01 HD09423-01	20,229
FISCHBARG, JORGE	CORNEAL TRANSPARENCY AND ACTIVE TRANSPORT MECHANISMS.....	VISA	5R01 EY00727-05	41,400
FISCHBARG, JORGE	BIOELECTRICAL PROPERTIES OF CORNEAL ENDOTHELIUM.....	VISA	5R01 EY01080-03	26,656
FOX, CHARLES L. JR.	TOPICAL THERAPY OF INFECTED WOUNDS AND BURNS.....	SGYA	2R01 GM18275-04	74,140
FRAENKEL, GEORGE K.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07060-10	53,616
FRANTZ, ANDREW G.	STUDIES ON PROLACTIN.....	END	5R01 CA11704-05	92,487
FREDA, VINCENT J.	MANAGEMENT OF THE RH PROBLEM IN OBSTETRICS.....	HED	1R01 HD08728-01	57,055
GERSONY, WELTON M.	NATURAL HISTORY OF CONGENITAL HEART DEFECTS—JOINT STUDY.....	TEC	5R01 HL09479-10	29,313
GILMAN, SID	NEUROPHYSIOLOGICAL MECHANISMS OF HYPERTONIA.....	NEUB	1R01 NS10612-01A2	69,935
GILMAN, SID	ROSTRAL PROJECTIONS OF THE VESTIBULAR SYSTEM.....	CMS	1R01 NS11307-01A1	69,204
GILMAN, SID	CEREBELLAR STIMULATION IN EXPERIMENTAL EPILEPSY.....	NEUB	1R01 NS11981-01	44,684
GINSBERG, HAROLD S.	BIOCHEMICAL CHANGES—ADENO-INFECTED & TRANSFORMED CELLS.....	SSS	5R01 AI12052-02	100,642
GINSBERG, HAROLD S.	MECHANISM OF VIRAL ECLIPSE AND ASSEMBLY.....	VR	5R01 AI12053-02	58,491
GODMAN, GABRIEL C.	CELL INJURY BY ACTINOMYCIN AND RELATED CARCINOGENS.....	PTHB	5R01 CA13835-03	69,651
GOODMAN, DE WITT S.	STUDIES IN LIPID METABOLISM.....	MET	5R01 AM05968-15	107,076
GREENBAUM, LOWELL M.	CHEMICAL MEDIATORS OF TUMOR CELL ASCITES FLUID.....	PTHB	5R01 CA13861-03	39,907
GREER, JONATHAN	STRUCTURE AND FUNCTION OF BLOOD PROTEINS.....	BBCB	5R01 HL16601-02	41,941
HARBER, LEONARD C.	PHOTOSENSITIVITY: ENVIRONMENTAL AND OTHER FACTORS.....	GMA	5R01 ES01041-02	106,045
HARVEY, REJANE M.	DIFUSE GRANULOMATOUS AND FIBROTIC PULMONARY DISEASE.....	SRC	5P17 HL15088-04	108,838
HARVEY, REJANE M.	LUNG DISEASE AND THE OXYGENATION OF BLOOD AND TISSUE.....	HEP	1P01 HL17813-01	468,228
HEMBREE, WYLIE C. II.	TRITATED PEPTIDES/PROTEINS IN ENDOCRINE BIOCHEMISTRY.....	BBCB	5R01 AM16735-02	69,536
HEMBREE, WYLIE C. III.	ENDOCRINE ASPECTS OF PEPTIDE HORMONE METABOLISM.....	END	5R01 AM17634-02	51,435
HENDERSON, ANN S.	HUMAN GENE SITE LOCALIZATION USING HYBRIDIZATION IN SITU.....	GEN	1R01 GM21833-01	45,453
HERBERT, VICTOR D.	VITAMIN B12 AND FOLIC ACID METABOLISM.....	HEM	5R01 AM15163-06	125,882
HILAL, SADEK K.	GUIDED VASCULAR OBLITERATION OF CNS VASCULAR LESIONS.....	RAD	5R01 HL15781-03	34,721
HILAL, SADEK K.	NEUROTOXICITY OF ANGIOGRAPHIC CONTRAST AGENTS.....	RAD	1R01 NS11994-01	21,205
HOCHBERG, JULIAN	VISUAL INTEREST-MAINTENANCE IN CHILDREN AND ADULTS.....	EXP	1R01 HD06768-01A1	50,858
HOFFMAN, BRIAN F.	CARDIAC CONDUCTIVITY AND AUTOMATICITY.....	CVB	5R01 HL08508-12	63,304



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
HOFFMAN, BRIAN F.....	PHYSIOLOGIC PHARMACOLOGY AND ITS CLINICAL APPLICATIONS.....	HEP	5P01 HL12738-07	975,923
HOLLYFIELD, JOE G.....	EXPERIMENTAL ANALYSIS OF RETINAL DEVELOPMENT.....	VISB	5R01 EY00624-05	48,264
HOLLYFIELD, JOE G.....	CORRELATION OF STRUCTURE AND FUNCTION IN THE RETINA.....	VISB	5R01 EY01063-03	40,587
HOLTZMAN, ERIC.....	TRANSPORT AND MEMBRANE CIRCULATION IN NERVOUS TISSUE.....	NEUB	5R01 NS09475-05	59,147
HSU, KONRAD C.....	PATHOGENESIS OF SOME SEQUELAE OF STREPTOCOCCAL DISEASE.....	ALY	3R01 AM14928-15S1	4,192
IWAMOTO, TAKEO.....	ELECTRON MICROSCOPY OF THE EYE.....	VIS	5R01 EY00190-19	115,872
JAFFE, ABRAM J.....	FERTILITY & LABOR FORCE IN THE U.S.....	POP	3R01 HD06130-01A1S1	6,051
JAFFE, ABRAM J.....	FERTILITY & LABOR FORCE IN THE U.S.....	POP	5R01 HD06130-02	65,936
JAGIELLO, GEORGIANA M.....	GONADOTROPHIN CONTROL OF HUMAN FEMALE MEIOSIS.....	REB	5R01 HD05862-05	52,792
JAMES, I. STANLEY.....	SUPPORT FOR LUNG CENTER FOR NEWBORNS.....	SRC	5P17 HL14218-05	518,813
JOHNSON, WILLIAM G.....	GENETIC NEURAL TUMORS: CELL SURFACE ALTERATIONS.....	PTHA	1R01 CA18172-01	38,237
KARLIN, ARTHUR.....	PROPERTIES OF ISOLATED ACETYLCHOLINE RECEPTOR.....	NEUB	5R01 NS07065-09	84,309
KATZ, THOMAS J.....	SYNTHESIS OF AROMATIC COMPOUNDS.....	MCHB	5R01 GM19173-12	72,403
KAYE, GORDON I.....	STUDIES OF TRANSPORT, SECRETION, AND ABSORPTION SITES.....	CBY	5R01 AM12396-12	48,347
KINNEY, JOHN M.....	INFLUENCE OF ACUTE ILLNESS & INJURY ON ENERGY EXCHANGE.....	GMP	5P01 GM14546-09	511,729
KIRSTEN, EDWARD B.....	PHYSIOLOGY & PHARMACOLOGY OF MOTION-MODULATED NEURONS.....	CMS	1R01 NS11858-01	22,170
KOOPMANS, HENRY S.....	THE SATIATION OF HUNGER.....	GMA	1R01 AM17926-01	44,382
KRASNA, ALVIN I.....	STRUCTURE AND MECHANISM OF ACTION OF HYDROGENASE.....	BBCA	1R01 GM22283-01	58,245
KROOTH, ROBERT S.....	STUDY OF GENE CONTROL OF MAMMALIAN CELL DIFFERENTIATION.....	SSS	5P01 GM18153-05	449,377
LARACH, JOHN H.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00645-04	288,153
LEVINTHAL, CYRUS.....	GENETIC AND ENVIRONMENTAL CONTROL OF NEURAL DEVELOPMENT.....	NEUB	5R01 NS09821-05	124,303
LEVINTHAL, CYRUS.....	COMPUTER RESOURCE FOR IMAGE PROCESSING AND DISPLAYS.....	COM	5P07 RR00442-06	239,410
LEWIS, JAMES A.....	SENSORY NERVE DEVELOPMENT.....	NEUB	1R01 NS12399-01	68,102
LEWIS, ROBERT A.....	STUDIES IN POPULATION CHANGE.....	POP	5R01 HD05585-04	77,978
LI, LU-KU.....	SUBUNIT INTERACTIONS OF LENS PROTEIN.....	VISA	5R01 EY00032-05	59,560
LIEBERMAN, SEYMOUR.....	APPLICATION OF CHEMICAL METHODS TO STEROID METABOLISM.....	END	3R01 AM00110-23S1	1,105
LIEBERMAN, SEYMOUR.....	APPLICATION OF CHEMICAL METHODS TO STEROID METABOLISM.....	END	5R01 AM00110-24	62,587
LIEBERMAN, SEYMOUR.....	STUDIES OF REPRODUCTIVE BIOCHEMISTRY AND MEDICINE.....	HDPR	2P01 HD05077-06A1	371,336
LIM, JONG J.....	STANDING-GRADIENTS IN CORNEAL ENDOTHELIUM.....	VISA	1R23 EY01422-01	9,219
LIPPARD, STEPHEN J.....	METAL BINDING TO POLYNUCLEOTIDES: PROBES AND DRUGS.....	MCHB	5R01 CA15826-02	67,219
LIPPARD, STEPHEN J.....	IRON-SULFUR COORDINATION AND PROTEIN CHEMISTRY.....	MCHB	5R01 GM16449-07	59,277
LOEB, JOHN N.....	HORMONAL REGULATION OF GROWTH AND DIFFERENTIATION.....	MBV	5R01 HD05506-05	29,201
LOW, BARBARA W.....	STUDIES OF PROTEIN CONFORMATION.....	BBCA	1R01 GM21632-01	26,239
LOW, BARBARA W.....	THE STRUCTURE OF OXYTOCIN AND ITS ANALOGS.....	BBCA	1R01 HD09171-01	39,101
LOW, BARBARA W.....	STRUCTURE OF NEUROTOXINS-ERABUTOXINS AND LATICOTOXIN.....	BBCA	5R01 NS07747-06	50,069
MACAGNO, EDUARDO R.....	INVARIANCE OF SYNAPTIC PATHWAYS.....	NEUA	1R01 NS11738-01A1	42,504
MANDEL, IRWIN D.....	DENTAL DEPOSITS - NATURE AND PATHOGENICITY.....	SSS	2R01 DE01554-14	99,143
MANSKI, WLADYSLAW J.....	IMMUNOLOGICAL OBSERVATIONS ON OCULAR LENS IN CATARACT.....	VISA	5R01 EY00189-20	117,175
MANSKI, WLADYSLAW J.....	EFFECTS OF ANTIOCCULAR ANTIBODIES ON OCULAR TISSUES.....	IMB	5R01 EY00198-17	59,347
MARKS, PAUL A.....	SUPPORT FOR CLINICAL CANCER RESEARCH CENTER.....	CAP	5P02 CA13696-03	1,225,690
MARKS, PAUL A.....	NORMAL/ABNORMAL CELL GROWTH MULTIDISCIPLINARY STUDY.....	SSS	5P01 GM14552-09	159,142
MELLINS, ROBERT B.....	RESPIRATORY CONTROL IN EARLY LIFE.....	HED	5R01 HD08297-02	89,380
METTLER, FRED A.....	EXPERIMENTAL STUDY OF DYSKINESIA (CHOREOATHETOSIS).....	NEUB	5R01 NS06282-09	15,496
MILLER, ORLANDO J.....	SUPPRESSION OF MALIGNANCY IN CELL HYBRIDS.....	PTHB	5R01 CA12504-05	88,267
MORGAN, COUNCILMAN.....	ELECTRON MICROSCOPY OF VIRUS-HOST INTERACTIVITY.....	VR	5R01 AI06814-10	52,829
MORRISON, SHERIE L.....	GENETICS AND BIOCHEMISTRY OF MYELOMA IGA PRODUCTION.....	ALY	1R01 CA16858-01	67,461
MORSE, JANE H.....	ROLE OF SERUM COMPONENT IN DISEASE.....	ALY	5R01 HL10049-10	53,291
NAKANISHI, KOJI.....	INSECT AND CRUSTACEAN HORMONES AND PHEROMONES.....	MCHB	2R01 AI0187-05	103,216
NAKANISHI, KOJI.....	STRUCTURAL AND BIOORGANIC STUDIES OF NATURAL PRODUCTS.....	MCHB	2R01 CA11572-06	106,003
NAKANISHI, KOJI.....	STRUCTURAL AND CONFORMATIONAL STUDIES OF VISUAL PIGMENTS.....	BBCA	5R01 EY01253-02	19,780
NASTUK, WILLIAM L.....	CHOLINERGIC RECEPTOR ACTIVATION AND DESENSITIZATION.....	NEUB	5R01 NS04988-12	50,053
NGAI, SHIH-HSUN.....	STUDY OF ANESTHESIOLOGY.....	GMP	5P01 GM09069-13	523,469
NOBACK, CHARLES R.....	MICROMORPHOLOGY OF BRAIN DURING EARLY MALNUTRITION.....	NEUB	1R01 NS12436-01	40,930
NOSSSEL, HYMIE L.....	STUDY OF THROMBOSIS.....	HEP	5P01 HL15486-03	396,955
OZANICS, VICTORIA.....	FUNCTIONAL DEVELOPMENT OF THE EYE.....	VIS	5R01 EY00184-22	66,273
PASCAL, ROBERT R.....	GLOMERULONEPHRITIS IN LYMPHORETICULAR CANCER.....	PTHB	1R01 CA16179-01A1	51,251
PEREIRA, GERARD P.....	ELECTRON MICROSCOPY OF CELLS HAVING CYCLES.....	CBY	5R01 GM15289-08	59,559
PIRANI, CONRAD L.....	STUDIES OF HUMAN AND EXPERIMENTAL RENAL DISEASES.....	CVB	5R01 HL16603-02	100,025
PITT, JANE.....	MILK AND PASSIVE CELLULAR IMMUNITY OF THE NEWBORN.....	SSS	1R01 HD09139-01	43,430
PRICE, JOHN B, JR.....	CONTROL FACTORS IN HEPATIC REGENERATION.....	SGYB	2R01 AM07646-12	85,747

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
REEMTSMA, KEITH	IMMUNOLOGIC & PHYSIOLOGIC STUDY OF HEART TRANSPLANTATION	SGYB	5R01 HL14799-04	67,119
REUBEN, JOHN P.	TENSION REGULATION IN HEART AND SKELETAL MUSCLE	PHY	5R01 HL16082-02	36,849
RIVLIN, RICHARD S.	HORMONAL AND NUTRITIONAL REGULATION OF METABOLISM	END	5R01 AM15265-05	73,552
RIVLIN, RICHARD S.	REGULATORY MECHANISMS IN NORMAL NEOPLASTIC CELLS	END	2R01 CA12126-04	49,434
ROBBINS, HERBERT E.	SEQUENTIAL CLINICAL TRIALS AND COMPETING RISKS	COM	2R01 GM16893-07	42,115
ROSEN, MICHAEL R.	PEDIATRIC CARDIAC ELECTROPHYSIOLOGY AND PHARMACOLOGY	PHRA	1R01 HL17766-01	33,289
ROSENBERRY, TERRONE L.	PROTEINS IN EXCITABLE MEMBRANES	SSS	5R01 NS03304-14	82,857
ROSENKRANZ, HERBERT S.	ROLE OF RNA IN DNA VIRUSES	VR	5R01 AI11470-02	27,024
ROSSI, HARALD H.	STUDY OF IONIZING RADIATION	CAP	5P01 CA12536-05	313,038
ROSSI, HARALD H.	CELL IRRADIATIONS WITH MOLECULAR IONS	RAD	5R01 CA15307-02	67,083
ROSSO, PEDRO P.	MATERNAL MALNUTRITION AND TRANSFER OF NUTRIENTS	NTN	1R01 HD09509-01	16,826
ROWLAND, LEWIS P.	CLINICAL RESEARCH CENTER FOR NEUROMUSCULAR DISEASE	NSPB	5P01 NS11766-02	433,028
SAWYER, WILBUR H.	NEUROHYPOPHYSIAL REGULATION OF WATER EXCRETION	GMB	5R01 AM01940-17	58,192
SCHACHTER, DAVID	THE TRANSPORT OF CALCIUM	GMB	5R01 AM01483-19	104,037
SCHWARTZ, JAMES H.	BIOCHEMICAL STUDIES IN IDENTIFIED NEURONS	PHRA	2R01 NS12066-02	87,810
SEDEROFF, RONALD R.	RNA SYNTHESIS DURING DIFFERENTIATION	GEN	5R01 GM18079-04	44,699
SILVERSTEIN, SAUL J.	THE MOLECULAR BIOLOGY OF HERPES VIRUS SAIRI	SSS	1R01 CA17477-01	64,935
SINNETTE, CALVIN H.	COMPREHENSIVE SICKLE CELL CENTER	SRC	5P18 HL15161-04	583,327
SKOGERSON, LAWRENCE E.	GENETIC CONTROL OF MACROMOLECULAR SYNTHESIS	MBC	9R01 GM21620-04	29,035
SOMASUNDARAN, PONISSERIL	ELECTROCHEMICAL STUDY OF APATITES IN RELEVANT CHEMICALS	DEN	5R01 DE03460-03	16,488
SPECTOR, ABRAHAM	STUDY OF DEVELOPMENT OF CATARACT OF THE LENS	VISA	5R01 EY00423-07	131,982
SPECTOR, ABRAHAM	STUDIES OF THE EFFECTS OF AGING ON THE OCULAR LENS	VISA	5R01 EY00759-04	69,029
SPENCER, WILLIAM A.	PLASTICITY OF THE SIMPLEST NEURONAL PATHWAYS	NEUA	7R01 NS12744-01	36,332
SPIEGELMAN, SOL	CLINICAL & LABORATORY NORMAL & ABNORMAL GROWTH STUDIES	CAK	5P01 CA02332-21	1,354,676
SPRINSON, DAVID B.	SUGARS AND SYNTHESIS OF AMINO ACIDS	BIO	3R01 AM00546-23S1	18,376
SPRINSON, DAVID B.	REGULATION OF ERGOSTEROL AND CHOLESTEROL BIOSYNTHESIS	PC	2R01 AM00546-24	39,824
SRINIVASAN, B D	CELL DIVISION AND DIFFERENTIATION IN THE CONJUNCTIVA	VISA	1R23 EY01557-01	9,690
SRINIVASAN, P R.	REGULATION OF TRANSCRIPTION IN VIRUS INFECTED CELLS	VR	5R01 AI12132-02	58,475
SRINIVASAN, P R.	STUDIES OF NUCLEIC ACID METHYLATING ENZYMES	BIO	5R01 CA12233-10	58,389
ST JOHN, WALTER M.	BRAIN STEM INTEGRATION OF CHEMORECEPTOR ACTIVITY	CVA	1R01 HL18009-01	27,860
STERLING, KENNETH	ROLE OF THYROXINE-BINDING PROTEIN IN HORMONE UTILIZATION	END	5R01 AM10739-10	52,239
STORK, GILBERT	SYNTHESIS OF BIOLOGICALLY ACTIVE NATURAL PRODUCTS	MCHA	5R01 GM05147-18	99,348
STORK, GILBERT	CARDIOACTIVE ALLOYOHIMBINES AND RELATED INDOLE ALKALOIDS	MCHA	5R01 HL16471-02	75,635
SUSSER, MERVYN W.	AIR POLLUTION AND EMERGENCY ROOM VISITS	EDC	1R01 ES00899-01	127,026
SUSSER, MERVYN W.	A NATIONAL STUDY OF EPIDEMIOLOGY OF MENTAL RETARDATION	EDC	5R01 HD06751-03	80,111
SUSSER, MERVYN W.	EPIDEMIOLOGY OF SPONTANEOUS ABORTION & FETAL DEFECT	EDC	1R01 HD08838-01	71,983
SUSSER, MERVYN W.	ASTHMA AND AIR POLLUTION IN TWO INNER CITY AREAS	EDC	5R01 HL16652-02	78,536
TAPLEY, DONALD F.	THE EFFECT OF THYROXINE ON MITOCHONDRIA	END	5R01 AM01506-18	43,682
TAPLEY, DONALD F.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05395-14	255,345
TENNYSON, VIRGINIA M.	ALTERATIONS IN CATECHOLAMINERGIC NEUROBLASTS	NEUB	1R01 NS11870-01	68,309
TERRACE, HERBERT S.	ACQUISITION OF STIMULUS CONTROL	EXP	5R01 HD00930-12	57,370
TONNDORF, JUERGEN	MECHANICAL PROPERTIES OF THE EAR	CMS	5R01 NS03654-14	90,293
TORAN-ALLERAND, C D	SEX HORMONES AND DEVELOPMENT OF THE GONADOTROPHIC AXIS	REB	5R01 HD08364-02	39,261
TURINO, GERARD M.	STUDY OF CHEMICAL PREDISPOSITION TO LUNG INJURY	HEP	5P01 HL18233-03	371,807
VANDE WIELE, RAYMOND L.	STUDIES OF REPRODUCTIVE BIOCHEMISTRY AND MEDICINE	HDPR	3P01 HD05077-05S1	82,876
VANDE WIELE, RAYMOND L.	INTERNATIONAL INSTITUTE FOR STUDY OF HUMAN REPRODUCTION	HDPR	5P01 HD06132-02	217,329
VEENEMA, RALPH J.	IMPROVEMENT IN CARE OF PATIENTS WITH BLADDER CARCINOMA	SRC	5R26 CA16899-02	58,003
VOGEL, HENRY J.	STUDIES ON ENZYME REPRESSION IN BACTERIA	MBC	5R01 AI09297-07	48,356
WANG, SHIH-C	MECHANISM OF ACUPUNCTURE-INDUCED ANALGESIA IN MONKEY	SSS	1R01 GM22222-01	40,782
WANG, SHIH-C	PHYSIOLOGY AND PHARMACOLOGY OF BRAIN STEM	PHRA	2R01 NS00031-26A1	49,782
WECHSLER, JAMES A.	CONTROL OF NORMAL AND ABNORMAL CHROMOSOME GROWTH	SSS	5R01 CA12590-05	53,721
WEINSTEIN, I BERNARD	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA18180-01	115,644
WILLIAMS, ROGER W.	CHARACTERIZATION OF MATRONE, AN INSECT STERILANT	TMP	5R01 AI11150-03	34,793
WINICK, MYRON	NUTRITION AND CELL GROWTH DURING BRAIN DEVELOPMENT	NTN	2R22 HD06682-04	80,090
WINTERS, ROBERT W.	STUDIES OF PARENTERAL NUTRITION IN NEWBORN ANIMALS	SSS	5R01 HD08432-02	207,216
WINTERS, ROBERT W.	METABOLIC STUDIES OF PARENTERAL NUTRITION IN INFANTS	SSS	5R01 HD08434-02	195,666
WOLFF, JAMES A.	COOPERATIVE STUDY OF CHILDREN'S CANCER	CCI	2R10 CA03526-18	45,761
ZEGARELLI, EDWARD V	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05331-14	15,396
ZUBAY, GEOFFREY L.	MALIGNANT, TRANSFORMATION AND THE CYCLIC NUCLEOTIDES	MBY	1R01 CA16440-01	52,084
ZUBAY, GEOFFREY L.	CELL-FREE SYSTEMS FOR THE STUDY OF GENE REGULATION	MBC	2R01 GM16648-07	43,907

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
ORGANIZATION TOTAL	200	20,908,490		
<b>COMMUNITY BLOOD COUNCIL OF GREATER NEW YORK ZIP CODE 10021</b>				
GERMAN, JAMES L. III	AGING OF BLOOM'S SYNDROME CELLS IN TISSUE CULTURE	GEN	1R01 AG00051-01	20,608
GERMAN, JAMES L. III	CYTOLOGICAL STUDIES IN HUMAN GENETICS	GEN	5R01 HD04134-07	77,865
KELLNER, AARON	RESEARCH AND RESOURCE BLOOD PROGRAM	HEP	5P01 HL09011-12	2,261,262
KELLNER, AARON	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05688-07	165,207
POGO, ANGEL O	CONTROL OF RNA SYNTHESIS IN NORMAL AND NEOPLASTIC CELLS	PTHB	1R01 CA17626-01	26,993
WOLF, CARL F	AN EXTRACORPOREAL DEVICE TO FUNCTION AS A LIVER	GMA	2R01 AM15771-04	45,752
ORGANIZATION TOTAL	6	2,597,687		
<b>CORNELL UNIVERSITY MEDICAL CENTER ZIP CODE 10021</b>				
ANDERSEN, OLAF S	CHANNEL-MEDIATED ION TRANSPORT ACROSS LIPID BILAYERS	PHY	5R01 GM21342-02	49,323
ARTZT, KAREN	TERATOCARCINOMA AND EMBRYONAL TUMORS: SURFACE ANTIGENS	IMB	1R01 CA16715-01	50,266
ASKARI, AMIR	MECHANISMS OF CELLULAR ACTIONS OF CARDIAC GLYCOSIDES	PHRA	5R01 HL10884-09	70,034
BACHVAROVA, ROSEMARY F	SYNTHESIS, CHARACTERIZATION, AND FATE OF MOUSE OVUM RNA	HED	5R01 HD06910-03	39,065
BEARN, ALEXANDER G	BIOCHEMISTRY AND GENETICS OF BLOOD CELL MEMBRANE PROTEIN	GEN	5R01 AM11796-08	149,424
BEDFORD, J MICHAEL	MATURATION AND INTERACTION OF MAMMALIAN GAMETES	REB	2R01 HD07257-04	89,482
BENNETT, DOROTHEA	IMMUNOGENETICS OF SPERMATOZOA, EGGS, AND EMBRYOS	REB	2R01 HD05482-04A1	58,291
BLACK, IRA B	REGULATION OF NEURONAL GROWTH AND DEVELOPMENT	NEUB	2R01 NS10259-04	42,265
BRESLOW, ESTHER M	INTERACTIONS OF PROTEINS	BBCB	2R01 GM17528-19	88,939
BRISCOE, WILLIAM A	EMPHYSEMA: RESPIRATORY FUNCTION IN DISEASE	CVA	5R01 HL12530-07	78,625
BUCHANAN, J ROBERT	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	2M01 RR00047-15	1,005,060
CHAN, WALTER Y	UTERINE PHARMACOLOGY OF OXYTOCIN AND PROSTAGLANDINS	HED	1R01 HD09031-01	41,138
COOPER, GEORGE W, JR	THE SURFACE CHARACTER OF SPERMATOZOA AND BLASTOCYSTS	REB	1R01 HD09215-01	87,410
CORNELL, GEORGE N	COOPERATIVE STUDY OF ONCOLOGY	CCI	5R10 CA12276-04	63,586
COTZIAS, GEORGE C	STUDIES OF EXTRAPYRAMIDAL & RELATED BEHAVIORAL DISORDERS	NSPA	7P01 NS12776-01	814,662
DANES, BETTY S	GENETIC STUDIES OF HERITABLE COLORECTAL CANCER	SRC	5R26 CA15973-02	39,124
DICKERMAN, ROBERT W	STUDY OF ENCEPHALITIS ARBOVIRUSES IN NORTH AMERICA	TMP	5R01 AO6248-11	27,110
DICKERMAN, ROBERT W	NEOTROPICAL BATS AND ENCEPHALITIS ARBOVIRUSES	TMP	5R01 AI11383-03	27,187
DIETZ, GEORGE W	ACTIVE TRANSPORT MECHANISMS IN NORMAL AND TUMOR CELLS	BIO	5R01 GM19198-02	26,820
DOOHER, GERALD B	CELL SURFACE ARCHITECTURE OF EMBRYOS AND SPERM	HED	1R01 HD09116-01	57,134
DUFFY, THOMAS E	PATHOGENESIS OF HEPATIC COMA	PTHA	2R01 AM16739-03	80,539
ELLIS, ROBERT J	REACTIVITY OF AXILLARY LYMPH NODES IN BREAST CANCER	SGYA	5R01 CA16348-02	46,542
ENGLE, MARY A	IMMUNOLOGIC STUDIES IN POSTPERICARDIOTOMY SYNDROME	SGYA	5R01 HL16246-02	60,635
GARDNER, DANIEL	SYNAPTIC ORGANIZATION OF AN IDENTIFIED NEURAL NETWORK	PHY	5R01 NS11555-02	11,355
GERSHON, MICHAEL D	NEURAL CONTROL OF GASTROINTESTINAL ACTIVITY	NEUB	5R01 NS07436-08	79,143
GIBBS, JAMES G, JR	PHYSIOLOGICAL MECHANISMS OF SATIETY	GMA	5R01 AM17240-02	36,947
GRAFSTEIN, BERNICE	GROWTH OF AXONS IN DEVELOPMENT AND REGENERATION	NEUB	5R01 NS09015-06	91,621
HARSANYI, ZSOLT P	DRUG AND CHEMICALLY INDUCED CHROMOSOMAL ABERRATIONS	GEN	5R01 ES00675-02	38,515
HASCHEMEYER, RUDY H	BIOPHYSICAL STUDIES ON MACROMOLECULAR INTERACTIONS	BBCB	5R01 HL18222-07	26,278
HEINEMANN, HENRY O	INTERACTION BETWEEN ELECTROLYTES AND RESPIRATION	CVA	5R01 HL13921-04	64,352
HINKLE, LAWRENCE E	PREVENTION OF ACUTE AND FATAL CARDIOVASCULAR DISEASE	SRC	1R01 HL18776-01	196,433
JAVITT, NORMAN B	CHOLESTATIC LIVER DISEASE	GMA	3R01 AM16201-03S1	57,113
JAVITT, NORMAN B	CHOLESTATIC LIVER DISEASE	GMA	2R01 AM16201-04	147,363
JOHNSON, WARREN D	IMMUNITY IN HUMAN SALMONELLA INFECTIONS	BM	5R01 AI10837-03	32,903
JONES, THOMAS C	INTERACTIONS OF MYCOPLASMAS AND PHAGOCYtic CELLS	BM	5R01 AI10821-02	28,124
JONES, THOMAS C	EFFECTS OF IMMUNITY ON INTRACELLULAR PARASITISM	TMP	5R01 AI12146-02	23,810
KRAUSS, ALFRED N	CONTROL OF BREATHING IN PREMATURE INFANTS	CVA	1R01 HD09067-01	32,552
KUMADA, MAMORU	NEURAL MODULATION OF CAROTID SINUS REFLEX PERFORMANCE	CVA	5R01 HL16834-02	50,960
LANDESMAN, ROBERT	RADIORECEPTOR ASSAY OF HCG IN EARLY PREGNANCY	HED	1R01 HD09004-01	69,442
LARAGH, JOHN H	HYPERTENSION CENTER	SRC	7P17 HL18323-01	1,139,819
LEVI, ROBERTO	CARDIAC DYSFUNCTIONS CAUSED BY HISTAMINE RELEASE	PHRA	3R01 GM20091-01A1S1	4,223
LEVIN, AARON R	VENTRICULAR AND PULMONARY RESPONSE TO VOLUME OVERLOAD	CVB	5R01 HL14557-03	62,431
LITWIN, STEPHEN D	GENETIC CONTROL OF ALLOTYPIC EXPRESSION OF HUMAN IGG	ALY	5R01 AI09239-07	65,774
MAACK, THOMAS M	RENAL HANDLING OF PROTEINS: CONTROL OF RENIN RELEASE	PHY	5R01 AM14241-05	38,870
MARCUS, AARON J	BIOCHEMISTRY OF PLATELET GRANULES AND MEMBRANES	HEM	2R01 HL09070-11	25,772
MC SHERRY, CHARLES K	BILE SALT ADMINISTRATION FOR BILIARY CALCULI	GMA	3R01 AM16287-02S1	104,349
MEISTER, ALTON	AMINO ACID AND PROTEIN METABOLISM	BIO	5R01 AM12034-08	189,311
MILLER, DENIS R	COOPERATIVE STUDY OF CHILDREN'S CANCER	CCI	2R10 CA14557-02	29,861



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
NACHMAN, RALPH L	THROMBOSIS RESEARCH CENTER	HEP	5P01 HL14810-04	305,381
NATHAN, MARC A	A MODEL OF SUSTAINED ARTERIAL HYPERTENSION	CVB	1R01 HL18195-01	96,852
NEW, MARIA I	ANDROGEN METABOLISM IN CHILDHOOD	END	5R01 HD00072-12	93,647
NEW, MARIA I	ADRENOCORTICAL FACTORS IN HUMAN HYPERTENSION	CVB	1R01 HL17749-01	52,396
NUNEZ, ELADIO A	STUDIES OF THE PARAFOLLICULAR CELL OF THE THYROID GLAND	GMB	5R01 AM12957-07	78,982
PETERSON, RALPH E	MALE PSEUDOHYPERTROPHISM	END	1R01 HD09421-01	72,109
PLUM, FRED	RESEARCH CENTER IN CEREBROVASCULAR DISEASE	NSPA	5P01 NS03346-14	512,790
PLUM, FRED	CEREBRAL METABOLISM IN FOCAL SEIZURES	NEUB	2R01 NS04928-11	72,364
POLLEY, MARGARET J	IMMUNOBIOLOGIC STUDIES OF HUMAN COMPLEMENT	ALY	5R01 AI10873-04	54,262
POTTS, DOUGLAS G	RADIOLOGICAL STUDIES OF CEREBROSPINAL FLUID	RAD	5R01 NS09198-05	122,336
REIDENBERG, MARCUS M	DRUG TRANSFERENCE AND SENSITIVITY IN ABNORMAL STATES	PHRA	7R01 GM22193-01	41,623
REIS, DONALD J	BRAIN CATECHOLAMINES IN DEFENSE REACTION	NEUB	2R01 NS06911-08A1	86,291
RIKER, WALTER F, JR	PHARMACOLOGY OF NEUROMUSCULAR FUNCTION AND NERVE ENDINGS	PHRA	5R01 NS01447-18	62,557
ROBERTS, RICHARD B	IMMUNITY TO NEISSERIA GONORRHOEA	BM	2R01 AI10669-04	62,795
ROSS, GORDON D	LYMPHOCYTE RECEPTORS IN IMMUNITY, ARTHRITIS AND CANCER	PTHB	1R01 CA16190-01A1	43,727
RUBIN, ALBERT L	MODIFIED COLLAGEN FOR OPHTHALMIC DRUG DELIVERY	VISA	1R01 EY01502-01	53,361
SAXENA, BRIJ B	GONADOTROPIN RECEPTORS IN NORMAL AND NEOPLASTIC OVARIES	END	5R01 CA13908-03	57,402
SAXENA, BRIJ B	ANDROGEN METABOLISM	END	5R01 HD04173-11	69,290
SAXENA, BRIJ B	PITUITARY GONADOTROPIC AND GROWTH HORMONES	END	2R01 HD06543-04	115,428
SCHNECKLOTH, ROLAND E	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05396-14	249,883
SILAGI, SELMA	GENE ACTION AND CELLULAR DIFFERENTIATION IN CULTURE	GEN	2R01 CA10095-08	144,846
SILVER, RICHARD T	LEUKEMIA, LYMPHOMA, AND MYELOMA CHEMOTHERAPY	CCI	2R10 CA07968-11	114,865
SISKIND, GREGORY W	ANTIBODY AFFINITY IN IMMUNE RESPONSE AND TOLERANCE	IMB	5R01 AM13701-07	141,939
SMITH, GERARD P	NEUROENDOCRINOLOGY OF EMOTIONAL BEHAVIOR	NEUA	2R01 NS08402-06A1	46,702
SUSSDORF, DIETER H	CARCINOGENESIS IN THE NUDE (ATHYMIC) MOUSE	IMB	1R01 CA17219-01	51,088
WASTERLAIN, CLAUDE G	BRAIN RIBOSOMES AND BRAIN PROTEIN SYNTHESIS IN EPILEPSY	NEUB	5R01 NS09625-04	29,333
WASTERLAIN, CLAUDE G	BRAIN DEVELOPMENT IN EXPERIMENTAL EPILEPSY	NEUB	1R01 NS12357-01	71,273
WEKSLER, MARC E	HIST DEFENSES AGAINST LYMPHOBLASTIC LEUKEMIA	PTHB	5R01 CA13339-03	28,557
WELNER, DANIEL	EFFECT OF ENZYME INJECTIONS ON TUMOR GROWTH	ET	5R01 CA13259-03	39,829
WINDHAGER, ERICH E	ION AND WATER TRANSPORT ACROSS RENAL TUBULES	PHY	2R01 AM11489-09	65,920
WOODRUFF, JACK F	IMMUNOBIOLOGY OF VIRUS-LYMPHOCYTE INTERACTIONS	VR	5R01 AI10172-02	66,046
WOODRUFF, JACK F	IMMUNOLOGIC MECHANISMS IN HEART DISEASE	VR	1R01 HL17404-01	66,899
ORGANIZATION TOTAL	80	8,910,755		
<b>EYE BANK FOR SIGHT RESTORATION ZIP CODE 10021</b>				
BHUYAN, KAILASH C	MECHANISM OF CATARACTOGENESIS CAUSED BY AMINOTRIAZOLE	VISA	1R01 EY01731-01	40,227
ORGANIZATION TOTAL	1	40,227		
<b>FORDHAM UNIVERSITY ZIP CODE 10458</b>				
CHANEY, ELSA M	WOMEN'S NONFAMILIAL ROLES AND POPULATION POLICY	POP	1R01 HD08352-01	32,555
CLARKE, DONALD D	COMPUTER SIMULATION OF BRAIN METABOLISM	COM	5R01 NS10670-03	28,633
EPLING, GARY A	MECHANISTIC STUDY OF PHOTOTOXICITY IN ANTIMALARIALS	MCHA	5R01 AI12200-02	37,419
FRANCK, RICHARD W	MITOMYCINS AND OTHER QUINOID ANTITUMOR AGENTS	MCHA	2R01 CA11421-10	54,351
FRANCK, RICHARD W	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	1S05 RR07150-01	33,397
HANSON, ANN E	EDITION OF HIPPOCRATES, DISEASE OF WOMEN I	SSS	1R01 LM02535-01	19,070
WEINREB, STEVEN M	CHEMICAL STUDIES ON POTENTIAL ANTITUMOR AGENTS	MCHA	5R01 CA12568-05	57,686
ORGANIZATION TOTAL	7	263,111		
<b>HEALTH INSURANCE PLAN OF GREATER NEW YORK ZIP CODE 10022</b>				
RUBERMAN, WILLIAM	VENTRICULAR PREMATURE BEATS AND SUDDEN CORONARY DEATH	EDC	5R01 HL13974-04	295,927
ORGANIZATION TOTAL	1	295,927		
<b>HOSPITAL FOR JOINT DISEASES AND MEDICAL CENTER ZIP CODE 10035</b>				
HOLLANDER, VINCENT P	STUDIES ON HORMONALLY SENSITIVE TUMORS	END	5R01 CA10064-1	113,664
HOLLANDER, VINCENT P	THE PATHOGENESIS OF PLASMA CELL TUMORS	PTHB	5R01 CA12635-04	69,570
HOLLANDER, VINCENT P	CORE GRANT FOR CANCER STUDIES	CAP	5P01 CA14-4-02	243,297
HOLLANDER, VINCENT P	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR01589-11	39,657
MASHBURN, THOMPSON A, JR	PROTEOGLYCANS OF NORMAL AND MALIGNANT CARTILAGE	PC	5R01 CA15626-02	39,144
MONDER, CARL	NEW PATHWAYS OF CORTICOSTEROID METABOLISM	END	2R01 AM09006-10	74,639

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
SHIRATORI, TATSUJI .....	VITAMIN E METABOLISM IN SKIN .....	NTN	5R01 AM16350-03	20,318
STEVENS, JOHN J .....	MECHANISM OF CORTISOL-INDUCED LYMPHOMA REGRESSION .....	ET	5R01 CA14987-02	46,530
ORGANIZATION TOTAL	8 646,819			
<b>HOSPITAL FOR SPECIAL SURGERY ZIP CODE 10021</b>				
BOSKEY, ADELE L .....	MECHANISM OF HARD TISSUE MINERALIZATION .....	DEN	1R23 DE04141-01	12,864
CHRISTIAN, CHARLES L .....	IMMUNOLOGICAL STUDIES OF CHRONIC ARTHRITIS .....	ALY	2R01 AM14627-06	159,617
KAGEN, LAWRENCE J .....	IMMUNOLOGICAL STUDIES OF MYOGLOBIN .....	ALY	5R01 AM14650-05	33,732
KORNGOLD, LEONHARD .....	DETERMINATION OF SPECIFIC ANTIGENS FOR TUMOR TISSUES .....	IMB	5R01 CA04798-17	49,867
MELLORS, ROBERT C .....	C-TYPE RNA VIRUS AND IMMUNOPATHOLOGY .....	IMB	5R01 CA14928-11	153,525
MELLORS, ROBERT C .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05495-13	85,565
PHILLIPS, PAUL E .....	VIROLOGIC STUDIES OF SYSTEMIC LUPUS ERYTHEMATOSUS .....	VR	5R01 AM17028-02	31,594
POSNER, AARON S .....	STUDY OF ULTRASTRUCTURE OF HARD TISSUE .....	DEP	5P01 DE01945-12	122,243
WALKER, PETER S .....	LAXITY IN NORMAL, ARTHRITIC AND PROSTHETIC KNEE JOINTS .....	AFY	5R01 AM17408-02	68,031
ORGANIZATION TOTAL	9 717,038			
<b>INSTITUTE FOR MEDICAL RESEARCH AND STUDIES ZIP CODE 10010</b>				
KROHN, DAVID L .....	DETECTION AND TREATMENT OF MODEL CHOROIDAL MELANOMA .....	VISA	3R01 CA12523-03S2	16,597
ORGANIZATION TOTAL	1 16,597			
<b>JEWISH HOSPITAL AND MEDICAL CENTER OF BROOKLYN ZIP CODE 11238</b>				
LEE, STANLEY L .....	COOPERATIVE STUDY OF ACUTE LEUKEMIA .....	CCI	2R10 CA12886-04	102,050
LEE, STANLEY L .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05503-13	26,441
WEISENFELD, SHIRLEY .....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS .....	SSS	5R01 AM05648-15	78,962
ORGANIZATION TOTAL	3 207,453			
<b>LENOX HILL HOSPITAL ZIP CODE 10021</b>				
IOACHIM, HARRY L .....	STUDIES OF INDUCTION AND IMMUNITY .....	PTHB	5R01 CA16997-02	36,104
ORGANIZATION TOTAL	1 36,104			
<b>LONG ISLAND JEWISH-HILLSIDE MEDICAL CENTER ZIP CODE 11040</b>				
BENJAMIN, FRED .....	ENDOCRINE METABOLIC INFLUENCE IN ENDOMETRIAL CARCINOMA .....	END	5R01 CA13223-03	35,377
GREENWALD, ROBERT A .....	INTERACTIONS OF CONNECTIVE TISSUE COMPONENTS .....	GMA	1R23 DE04234-01	10,183
KLAVINS, JANIS V .....	EMBRYONIC COMPONENTS IN CANCER AND PATHOLOGIC TISSUES .....	PTHB	5R01 CA14872-02	46,915
MEILMAN, EDWARD .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05496-13	83,386
ROSENTHAL, ARTHUR F .....	SYNTHETIC INHIBITORS OF PHOSPHOLIPID METABOLISM .....	MCHA	5R01 AM07699-12	50,976
SAWITSKY, ARTHUR .....	COOPERATIVE STUDY OF ACUTE LEUKEMIA .....	CCI	2R10 CA11028-08	75,001
SAWITSKY, ARTHUR .....	EXPLORATORY STUDIES IN CANCER RESEARCH .....	SRC	1P01 CA17061-01	127,210
ORGANIZATION TOTAL	7 429,048			
<b>LONG ISLAND UNIVERSITY BROOKLYN CENTER ZIP CODE 11201</b>				
ROGERS, DONALD W .....	HEATS OF HYDROGENATION OF LARGE MOLECULES .....	BBCA	2R01 GM18035-04	18,984
ORGANIZATION TOTAL	1 18,984			
<b>MAIMONIDES MEDICAL CENTER ZIP CODE 11219</b>				
APPELBAUM, JEROME .....	EASTERN COOPERATIVE ONCOLOGY GROUP .....	CCI	3R10 CA05588-14S2	69,021
KAUFMAN, DAVID G .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05497-13	33,027
KUMARESAN, PERIANN .....	PHYSIOLOGY OF OXYTOCIN SECRETION .....	HED	2R01 HD04984-03A1	32,092
SCHWARTZ, JOEL M .....	HETEROGENEITY OF NADH METHEMOGLOBIN REDUCTASE .....	HEM	2R01 HL13585-03A1	53,409
ORGANIZATION TOTAL	4 187,549			
<b>MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES ZIP CODE 10021</b>				
BEATTIE, EDWARD J, JR .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05753-03	184,785
BURCHENAL, JOSEPH H .....	CLINICAL CANCER RESEARCH CENTER .....	CAP	3P02 CA05826-13S1	174,677
BURCHENAL, JOSEPH H .....	CLINICAL CANCER RESEARCH CENTER .....	CAP	5P02 CA05826-14	4,502,562
D'ANGIO, GIULIO J .....	DELAYED CONSEQUENCES OF CANCER THERAPY .....	NSS	1R13 CA17657-01	61,136
HILARIS, BASIL S .....	INTERNATIONAL SYMPOSIUM: AFTERLOADING IN BRACHYTHERAPY .....	NSS	1R13 CA17097-01	18,200
LUKAS, DANIEL S .....	METABOLISM OF DIGITALIS STEROIDS IN MAN .....	PHRA	2R01 HL14539-05	35,998
MELAMED, MYRON R .....	AUTOMATION OF URINARY CYTOLOGY FOR CANCER DETECTION .....	SRC	5R26 CA14134-03	116,191
MELAMED, MYRON R .....	AUTOMATION OF URINARY CYTOLOGY FOR CANCER DETECTION .....	SRC	2R26 CA14134-04	110,758

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
SCHOTTENFELD, DAVID .....	CANCER RISK AFTER IRRADIATION AND/OR CHEMOTHERAPY .....	EDC	1R01 CA17028-01	35,709
WINAWER, SIDNEY J. ....	DETECTION OF EARLY COLON CANCER .....	SRC	5R26 CA15429-02	211,427
ORGANIZATION TOTAL	10 5,451,443			
<b>MONTEFIORE HOSPITAL AND MEDICAL CENTER ZIP CODE 10467</b>				
BANK, NORMAN .....	FACTORS GOVERNING THE RENAL EXCRETION OF ACID .....	GMB	5R01 HL14720-04	76,451
BERNSTEIN, LESLIE H. ....	COBALAMIN DEFICIENCY IN ANIMALS WITH ENTERIC OVERGROWTH .....	GMA	5R01 AM16574-03	61,313
CHERKASKY, MARTIN .....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER .....	CLR	5M01 RR00053-14	898,486
CHERKASKY, MARTIN .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05499-13	220,703
COHEN, MICHAEL V. ....	EFFECTS OF EXERCISE ON THE CORONARY VASCULATURE .....	AFY	1R01 HL17809-01	120,434
EMESON, EUGENE E. ....	ADOPTIVE IMMUNOTHERAPY OF CANCER BY ALLOGENEIC MARROW .....	ET	1R01 CA17467-01	45,105
ESCHER, DORIS J. ....	TECHNOLOGY AND PHYSIOLOGY OF ARTIFICIALLY PACED HEARTS .....	CVA	2R01 HL04666-16	56,467
FISHMAN, JACK .....	SPECIALIZED CANCER CENTER FOR CANCER ENDOCRINOLOGY .....	CAP	2P01 CA07304-12	973,486
HAMERMAN, DAVID J. ....	SYNOVIAL CELLS AND THE ETIOLOGY OF RHEUMATOID ARTHRITIS .....	GMA	5R01 AM15796-02	95,995
HENKIND, PAUL .....	RETINAL PATHOLOGY AND CIRCULATION .....	VISA	5R01 EY00613-05	141,608
HENKIND, PAUL .....	ENDOCRINE AND PHYSIOLOGICAL PARAMETERS IN GLAUCOMA .....	VISA	5R01 EY01224-02	150,989
HIRANO, ASAO .....	STRUCTURE AND BIOCHEMISTRY OF CEREBELLUM .....	NEUA	2R01 NS10427-03	36,964
KOSS, LEOPOLD G. ....	AUTOMATION OF BLADDER CANCER CYTOLOGY BY TICAS .....	SRC	5R26 CA15803-02	85,817
LAZARUS, GERALD S. ....	MECHANISMS OF PROTEOLYSIS IN HUMAN SKIN .....	GMA	5R01 AM17370-02	18,711
OPPENHEIMER, JACK H. ....	THYROXINE-PROTEIN INTERACTIONS .....	END	5R01 AM15421-15	163,409
PUSZKIN, ELENA G. ....	THE ROLE OF CONTRACTILE PROTEINS IN PLATELETS .....	HEM	1R01 HL18030-01	48,678
ROSEN, JOHN F. ....	THE DYNAMICS OF LEAD METABOLISM IN BONE .....	TOX	1R01 ES01060-01	90,018
ROSENFELD, ROBERT S. ....	HORMONAL FACTORS IN ATHEROSCLEROSIS AND HYPERLIPIDEMIA .....	HEP	5P01 HL14734-04	382,711
SCHUEUR, JAMES .....	EFFECTS OF PHYSICAL TRAINING ON HEART .....	AFY	5R01 HL15498-03	86,631
SCHUEUR, JAMES .....	FUNCTION AND METABOLISM OF THE HEART IN UREMIA .....	CVB	2R01 HL15664-03	69,186
SURKS, MARTIN I. ....	TRIODOXYTHYRONINE RECEPTORS AND THYROTROPH NEOPLASIA .....	SSS	1R01 CA16463-01	54,505
VEITH, FRANK J. ....	STUDIES OF VENOVENOUS PUMP-OXYGENATOR BYPASS .....	SGYA	5R01 HL11472-09	90,071
VEITH, FRANK J. ....	EXPERIMENTAL LUNG TRANSPLANTATION .....	SRC	1P01 HL17417-01	197,738
WEINSTEIN, STEPHEN W. ....	SOURCES OF ENERGY FOR RENAL SODIUM TRANSPORT .....	PHY	5R01 AM16775-03	55,098
YIPINTSOI, TADA .....	REGIONAL MYOCARDIAL BLOOD FLOW .....	CVB	1R01 HL15983-01A2	37,764
ORGANIZATION TOTAL	25 4,258,338			
<b>NATIONAL BUREAU OF ECONOMIC RESEARCH ZIP CODE 10016</b>				
WILLIS, ROBERT J. ....	MICROECONOMIC ANALYSIS OF HUMAN FERTILITY BEHAVIOR .....	POP	5R01 HD07161-03	153,373
ORGANIZATION TOTAL	1 153,373			
<b>NEW SCHOOL FOR SOCIAL RESEARCH ZIP CODE 10011</b>				
MACK, ARIEN .....	STUDY OF PERCEPTION DURING PURSUIT EYE MOVEMENTS .....	EXP	5R01 EY01135-02	15,936
ORGANIZATION TOTAL	1 15,936			
<b>NEW YORK ACADEMY OF MEDICINE ZIP CODE 10029</b>				
JARCHO, SAUL .....	EARLY HISTORY OF THE CONCEPT OF HEART FAILURE .....	SSS	9R01 LM02561-09	16,444
ORGANIZATION TOTAL	1 16,444			
<b>NEW YORK ACADEMY OF SCIENCES ZIP CODE 10021</b>				
SHAMOO, ADIL E. ....	CARRIERS AND CHANNELS IN BIOLOGICAL SYSTEMS .....	NSS	1R13 GM22025-01	6,000
SILTZBACH, LOUIS E. ....	SEVENTH INTERNATIONAL CONFERENCE ON SARCOIDOSIS .....	NSS	1R13 HL18064-01	27,170
SOIFER, DAVID .....	THE BIOLOGY OF CYTOPLASMIC MICROTUBULES .....	NSS	3R13 GM21477-01S1	600
ORGANIZATION TOTAL	3 33,770			
<b>NEW YORK BOTANICAL GARDEN ZIP CODE 10458</b>				
ANCHEL, MARJORIE .....	MOLD METABOLITES: BIOLOGICAL AND CHEMICAL SIGNIFICANCE .....	BM	2R01 A100226-24	108,442
ANCHEL, MARJORIE .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05621-09	24,660
BARKSDALE, ALMA W. ....	THE SEXUAL HORMONES OF ACHLYA BISEXUALIS .....	MBC	5R01 HD00850-18	77,072
ORGANIZATION TOTAL	3 210,174			
<b>NEW YORK CITY HEALTH SERVICES ADMINISTRATION ZIP CODE 10013</b>				
MOSBACH, ERWIN H. ....	ROLE OF INTESTINAL BACTERIA IN STEROID METABOLISM .....	GMA	5R01 HL10894-09	63,098
ORGANIZATION TOTAL	1 63,098			



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
<b>NEW YORK CITY HEALTH SERVICES ADMINISTRATION—PUBLIC HEALTH RESEARCH INSTITUTE OF CITY OF N Y</b>			<b>ZIP CODE 10016</b>	
DALES, SAMUEL	MORPHOGENESIS & TRANSPORT OF NUCLEOPROTEINS & MEMBRANES	VR	5R01 A107477-09	102,305
DAY, LOREN A.	PHYSICAL CHEMISTRY OF VIRUSES AND THEIR COMPONENTS	BBCB	2R01 A109049-07	106,481
DUBNAU, DAVID A.	BACTERIAL TRANSFORMATION AND THE CELL MEMBRANE	MBC	5R01 A110311-05	27,699
DUBNAU, DAVID A.	INTEGRATION OF TRANSFORMING DNA	MBC	5R01 A110972-02	29,564
FISHMAN, MARVIN	ACCESSORY FUNCTIONS OF MACROPHAGES IN IMMUNOGENESIS	IMB	1R01 A111940-01A1	59,922
FISHMAN, MARVIN	ROLE OF MACROPHAGE SUBCLASSES IN TUMOR IMMUNITY	IMB	1R01 CA17078-01	5,792
GREGORIADES, ANASTASIA	REPLICATION AND ASSEMBLY OF INFLUENZA VIRUS	SSS	1R01 A112567-01	44,283
HIRST, GEORGE K.	GENETIC AND BIOCHEMICAL STUDIES OF INFLUENZA	VR	5R01 A104360-12	64,106
HIRST, GEORGE K.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05533-13	132,644
LUSTY, CAROL J.	STRUCTURE-FUNCTION RELATIONS OF UREA CYCLE ENZYMES	BIO	1R01 AM18044-01	44,598
MANDEL, BENJAMIN	STUDIES OF VIRUS-CELL AND VIRUS-ANTIBODY INTERACTION	VR	5R01 A110429-04	62,332
MARGOLIN, PAUL	MUTATION AND SUPPRESSOR STUDIES OF A BACTERIAL GENE	GEN	5R01 GM15255-10	113,300
MINDICH, LEONARD E.	CELL MEMBRANE SYNTHESIS IN THE CONTROL OF GROWTH	MBC	5R01 A109861-09	49,387
MOSBACH, ERWIN H.	PRODUCTION AND EXCRETION OF BILE ACIDS	GMA	5R01 AM05222-15	80,887
NOVICK, RICHARD P.	GENETIC AND MOLECULAR ANALYSIS OF PLASMID REPLICATION	GEN	5R01 GM14372-09	64,866
OISHI, MICHIO	THE MOLECULAR MECHANISM OF GENETIC RECOMBINATION	SSS	5R01 GM21073-02	73,284
OSLER, ABRAHAM G.	FUNCTIONS OF THE ALTERNATE COMPLEMENT PATHWAY	ALY	2R01 A108710-07	64,306
PENEFESKY, HARVEY S.	MITOCHONDRIAL MEMBRANE AND OXIDATIVE PHOSPHORYLATION	PC	9R01 GM21737-09	68,266
POGO, BEATRIZ G.	DNASES DURING INFECTION BY VACCINIA AND SHOPE FIBROMA	SSS	1R01 A112188-01A1	46,752
PONS, MARCEL W.	BIOCHEMICAL STUDIES ON INFLUENZA VIRUS INFECTED CELLS	VR	2R01 A110256-04A1	64,726
PULLMAN, MAYNARD E.	BIOSYNTHETIC PROCESSES IN MITOCHONDRIA	PC	5R01 AM08823-11	65,456
RATNER, SARAH	MECHANISMS OF NITROGEN TRANSFER AND UREA FORMATION	BIO	2R01 AM03428-16	79,632
ROCHOVANSKY, OLGA M.	INFLUENZA VIRAL RNA AND PROTEIN SYNTHESIS IN VITRO	VR	5R01 A111614-02	46,128
SCHAEFLER, SAM	ECOLOGY OF EXTRACHROMOSOMAL ANTIBIOTIC RESISTANCE	MBC	2R01 A110018-04A1	25,913
SMITH, ISSAR	GENETICS OF RIBOSOME SYNTHESIS: ANTIBIOTIC RESISTANCE	GEN	5R01 GM19185-04	51,028
SMITH, ISSAR	REGULATORY MECHANISMS IN RIBOSOME BIOSYNTHESIS	GEN	5R01 GM19693-02	38,654
SPENCER, WILLIAM A.	PLASTICITY OF THE SIMPLEST NEURONAL PATHWAYS	NEUA	5R01 NS09361-05	74,438
TZAGLOFF, ALEXANDER A.	BIOSYNTHESIS OF CYTOCHROME OXIDASE	BIO	2R01 GM18868-04	29,439
TZAGLOFF, ALEXANDER A.	ASSEMBLY OF MEMBRANES IN HEART AND YEAST MITOCHONDRIA	MBY	5R01 HL13003-06	61,845
ORGANIZATION TOTAL	29	1,778,033		
<b>NEW YORK MEDICAL COLLEGE</b>			<b>ZIP CODE 10029</b>	
BRAVERMAN, ALBERT S.	BETA THALASSEMIA: EXCESS ALPHA CHAIN KINETICS	HEM	1R01 AM16846-01A1	45,817
BRODOFF, BERNARD N.	STARVATION DIABETES	MET	5R01 AM10675-09	58,205
DANISHEFSKY, ISIDORE	HEPARIN, BLOOD COAGULATION AND LIPID METABOLISM	HEM	5R01 HL16955-02	45,126
FISHER, CLARK A.	THE CELL ENVELOPE ANTIGENS OF PROPIONIBACTERIUM ACNES	BM	1R01 A112704-01	14,675
GLASS, GEORGE B.	MUCOPROTEINS, INTRINSIC FACTOR, AND VITAMIN B12	GMA	3R01 AM00068-23S1	52,719
HAGOPIAN, MARTIN	HYPOTHERMIA AND THE HEART	CVA	2R01 HL14713-04	78,478
HOROWITZ, MARTIN I.	BIOCHEMISTRY OF GASTRIC SULFATED GLYCOPROTEINS	PC	5R01 AM15475-04	52,063
HOROWITZ, MARTIN I.	BIOCHEMISTRY OF LIPIDS IN NORMAL AND ULCERATED STOMACHS	GMA	5R01 AM15565-04	83,469
KALEY, GABOR	ROLE OF PROSTAGLANDINS IN VASCULAR HOMEOSTASIS	CVB	3R01 HL12342-06S1	12,022
LERNER, ROBERT G.	THE ROLE OF LEUKOCYTES IN THROMBOTIC DISEASE	HEM	5R01 HL14739-04	58,052
LEVINE, NORMAN	MALE REPRODUCTION: EPIDIDYMAL MICROPUNCTURE STUDY	GMB	1R01 HD09010-01	42,882
MADDEN, ROBERT E.	COOPERATIVE STUDY OF ONCOLOGY	CCI	5R10 CA12286-05	40,249
MADDEN, ROBERT E.	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17944-01	78,516
MC BRIDE, RAYMOND A.	ANTITUMOR IMMUNITY IN AGAMMAGLOBULINEMIC INBRED FOWL	IMB	5R01 CA16164-08	161,861
MOHOS, STEVEN C.	MECHANISM OF INDUCED RENAL DISEASE	PTHA	5R01 AM08432-10	78,607
MOROSON, HAROLD	EFFECT OF RADIOTHERAPY UPON HOST IMMUNE REACTIONS	RAD	5R01 CA14374-03	84,506
PETERSON, RUDOLPH N.	MOTILITY AND METABOLISM OF HUMAN SPERMATOZOA	REB	1R01 HD09341-01	48,154
PIGMAN, W WARD	GLYCOPROTEINS OF NORMAL AND CANCEROUS COLONIC TISSUE	SRC	1R26 CA17168-01	103,512
PIGMAN, W WARD	CORE PROTEINS OF SALIVARY GLYCOPROTEINS	SSS	1R01 DE04084-01	56,932
ROTHBALLER, ALAN B.	CNS CONTROL OF FLUID AND ELECTROLYTE METABOLISM	NEUB	2R01 NS06624-10	77,938
ROTHENBERG, SHELDON P.	KINETICS OF B12, INTRINSIC FACTOR, AND OTHER PROTEINS	HEM	5R01 AM06045-12	56,446
ROTHENBERG, SHELDON P.	SPECIFIC RADIOASSAYS FOR FOLATE ANALOGUES	HEM	2R01 AM16220-04	49,332
ROTHENBERG, SHELDON P.	FOLATE REDUCTASE: INDUCTION, SUPPRESSION, THERAPEUTICS	ET	5R01 CA08976-09	66,254
SALL, SANFORD	COOPERATIVE STUDY OF NEW GYNECOLOGIC CANCER PATIENTS	CCI	5R10 CA12483-05	68,577
SAWICKI, LEON	RECURRENT HERPES SIMPLEX EYE DISEASE	VISA	2R01 EY00773-04	100,856

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
SCHIERMAN, LOUIS W.	IMMUNOGENETIC STUDY OF A HERPES VIRUS-INDUCED LYMPHOMA.....	VR	5R01 CA13940-03	161,371
SCHILLER, SARA	BIOCHEMISTRY OF ACID MUCOPOLYSACCHARIDES.....	PC	5R01 AM14614-04	58,543
SHARMA, SANSAR C.	GENESIS OF NEURAL SPECIFICITY IN THE VISUAL SYSTEM.....	VISB	1R01 EY01426-01A1	90,063
SLOBODY, LAWRENCE B.	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05398-14	183,434
SZABO, ANDREW J.	INSULIN SENSITIVE GLUCOREGULATOR IN THE CNS.....	MET	5R01 AM17347-03	24,792
TABACHNICK, MILTON	TRANSPORT OF THYROID HORMONES.....	END	5R01 AM05344-14	58,379
THURSH, DONALD R.	IMMUNOLOGICAL ASPECTS OF FETAL AND INFANTILE DEATH.....	ALY	5R01 HD08847-02	36,101
VITEK, JOZEF	SEX STEROID METABOLISM IN ORAL TISSUES.....	END	1R01 DE04039-01	45,172
ORGANIZATION TOTAL	33	2,273,103		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE-INSTITUTE FOR BASIC RESEARCH IN MENTAL RETARDATION ZIP CODE 10314</b>				
THORMAR, HALDOR	VISNA-MAEDI VIRUS CLONES: COMPARISON & DIFFERENTIATION.....	VR	1R01 AI12465-01	37,185
ORGANIZATION TOTAL	1	37,185		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE-NEW YORK STATE PSYCHIATRIC INSTITUTE ZIP CODE 10032</b>				
BARKAI, AMIRAN I.	SLEEP BEHAVIOR AND TURNOVER OF BIOGENIC AMINES.....	NEUA	5R01 NS11048-02	32,513
GRAF, LISELOTTE	IMMUNOCHEMISTRY OF THE CELL MEMBRANE IN MALIGNANCY.....	ALY	5R01 CA10903-08	51,493
KUPFERMANN, IRVING	BEHAVIORAL AND NEURAL ANALYSIS OF LEARNING IN APLYSIA.....	EXP	7R01 NS12492-01	10,616
KUPFERMANN, IRVING	BEHAVIORAL AND NEURAL ANALYSIS OF LEARNING.....	NEUB	2R01 NS12492-02	41,365
MALITZ, SIDNEY	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05650-09	107,034
THOMPSON, ELIZABETH B.	MORPHOLOGY OF IDENTIFIED SYNAPSES.....	NEUB	1R01 NS12353-01	75,599
ORGANIZATION TOTAL	6	318,620		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE-RESEARCH INSTITUTE FOR NEUROCHEMISTRY &amp; DRUG ADDICTN ZIP CODE 10035</b>				
LAITHA, ABEL	PROTEIN AND PEPTIDE BREAKDOWN IN THE BRAIN.....	PC	5R01 NS03226-15	55,312
LAITHA, ABEL	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05707-04	26,732
ORGANIZATION TOTAL	2	82,044		
<b>NEW YORK UNIVERSITY ZIP CODE 10003</b>				
ADESNIK, MILTON B.	ERYTHROID DIFFERENTIATION IN FRIEND LEUKEMIC CELLS.....	VR	1R01 CA16887-01	55,456
AL-ASKARI, SALAH	CHARACTERIZATION OF HOMOGRAFT REACTIONS.....	IMB	5R01 AM16522-11	48,921
ALBERT, ROY E.	FOLLOW-UP STUDY OF IRRADIATED TINEA CAPITIS CASES.....	EDC	1R01 CA17188-01	89,374
ALTSZULER, NORMAN	HORMONAL REGULATION OF METABOLISM.....	END	5R01 AM10188-10	127,603
ASKANAS, VALERIE	ULTRASTRUCTURE OF CULTURED DISEASED HUMAN MUSCLE.....	PTHA	1R01 NS12187-01	35,534
AULL, FELICE B.	MEMBRANE PERMEABILITY OF THE ASCITES TUMOR CELL.....	PHY	2R01 CA10625-06A1	30,334
AYVAZIAN, JOHN H.	PATHWAYS OF PURINE METABOLISM.....	MET	5R01 AM14059-16	25,470
BAER, RUDOLF L.	NONIMMUNOGENIC UNCONJUGATED SIMPLE CHEMICAL TOLERGENS.....	IMB	5R01 AI11103-02	27,164
BALDWIN, DAVID S.	GENESIS OF HYPERTENSION IN RENAL DISEASES.....	CVB	5R01 HL15124-03	89,200
BARKSDALE, LANE	THE GENUS CORYNEBACTERIUM AND ITS VIRUSES.....	MBC	2R01 AI01071-19	82,342
BASCH, ROSS S.	STUDY OF THE DEVELOPMENT OF THYMIC LYMPHOCYTES.....	IMB	5R01 AI11326-03	39,735
BASCH, ROSS S.	THE TRANSITION FROM FETAL TO ADULT HEMOGLOBIN SYNTHESIS.....	HEM	5R01 HD04130-06	34,559
BASILICO, CLAUDIO	CELLULAR AND VIRAL CONTROL OF ONCOGENIC TRANSFORMATION.....	VR	5R01 CA11893-06	64,520
BECKER, FREDERICK F.	PHENOTYPIC ANALYSIS OF CHEMICAL CARCINOGENESIS.....	ET	3R01 CA12141-04S1	4,350
BECKER, FREDERICK F.	ANALYSIS OF CELLULAR EVENTS IN CHEMICAL CARCINOGENESIS.....	ET	5R01 CA15859-02	82,806
BENNETT, IVAN L.	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05399-14	255,345
BERNHEIMER, ALAN W.	STAPHYLOCOCCAL AND STREPTOCOCCAL PROTEINS.....	BM	2R01 AI02874-16	95,318
BLACK, VIRGINIA H.	CYTODIFFERENTIATION OF STEROID-SECRETING CELLS.....	CBY	2R01 HD04005-07	38,311
BLECHMAN, HARRY	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05332-14	36,937
BLIZARD, DAVID A.	HORMONES, DEVELOPMENT AND SEX DIFFERENCES.....	EXP	1R01 HD08187-01A1	41,855
BRAINE, MARTIN D.	TOWARDS A CONCEPTUAL BASIS FOR SYNTACTIC RELATIONS.....	DBR	1R01 HD08090-01	24,857
BREININ, GOODWIN M.	FINE STRUCTURE OF NORMAL AND PATHOLOGIC OCULAR MUSCLE.....	VIS	3R01 EY00309-09S1	12,284
BREININ, GOODWIN M.	FINE STRUCTURE OF NORMAL AND PATHOLOGIC OCULAR MUSCLE.....	VISA	2R01 EY00309-10	109,780
BRIDGES, C. DAVID	PHOTO AND BIOCHEMICAL REACTIONS IN THE VISUAL SYSTEM.....	VISB	5R01 EY00461-07	85,967
BYSTRYN, JEAN-CLAUDE	ISOLATION OF TUMOR ANTIGENS OF HUMAN MELANOMA.....	IMB	5R01 CA13844-03	63,966
CAMPBELL, EDWIN S.	WATER AND ORIENTATIONAL ENERGY OF HYDROGEN BONDS.....	BBCA	1R01 GM20436-01	29,331
CARR, RONALD E.	ERG AND PSYCHOPHYSICAL STUDIES IN RETINAL DISORDERS.....	VISB	5R01 EY00213-16	91,568
CHALON, JACK	BRONCHOGENIC CARCINOMA, EARLY DETECTION AND ETIOLOGY.....	PTHB	7R01 CA17471-01	42,422
CHAMBERS, ROBERT W.	EXAMINING SPECIFIC CHEMICAL CHANGES IN VIRAL DNA.....	PC	3R01 CA16319-01S1	49,589
CHAMBERS, ROBERT W.	RECOGNITION OF TRNA BY ITS AMINO ACID TRNA LIGASE.....	PC	5R01 GM07262-16	117,597
CHIARANDINI, DANTE J.	PHYSIOLOGY AND PHARMACOLOGY OF EXTRAOCULAR MUSCLES.....	PHY	5R01 EY01297-02	45,998

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
COX, RODY P.....	CELL-CULTURE STUDY OF INBORN ERRORS OF METABOLISM.....	GEN	5R01 AM14528-06	94,775
COX, RODY P.....	CELL REGULATION AND FETAL PROTEINS IN NEOPLASIA.....	MBY	5R01 GM15508-08	59,456
CRAVIOTO, HUMBERTO M.....	IMMUNOLOGICAL STUDIES OF EXPERIMENTAL BRAIN TUMORS.....	PTHB	5R01 CA12989-02	45,671
DANCIS, JOSEPH.....	PREVENTION OF DEATH FROM RADIO- OR CHEMOTHERAPY.....	RAD	5R01 CA16357-02	31,824
DANCIS, JOSEPH.....	PHYSIOLOGY OF THE PLACENTA.....	HED	5R01 HD00462-20	50,509
DANCIS, JOSEPH.....	INBORN ERRORS OF METABOLISM.....	MET	5R01 HD04526-06	34,268
DAVID, RAPHAEL.....	STUDY OF ROLE OF ADRENAL ANDROGENS IN LINEAR GROWTH.....	END	5R01 HD07929-02	44,743
DILLER, LEONARD.....	REMEDICATION OF FUNCTIONAL SKILL IN BRAIN DAMAGE.....	SSS	3R01 NS10236-03S1	54,805
DUMONT, ALLAN E.....	HODGKIN'S DISEASE: ANTEGRADE SPREAD VIA THORACIC DUCT.....	RAD	5R01 CA13622-03	31,510
ELSBACH, PETER.....	LIPID TRANSPORT INTO CELLS.....	BM	3R01 AM05472-13S1	16,627
ELSBACH, PETER.....	METABOLISM OF MEMBRANES AND PHAGOCYTOSIS.....	BM	2R01 AM05472-14A1	75,272
ENGELMAN, RICHARD M.....	PROLONGED LEFT HEART BYPASS WITHOUT ANTICOAGULATION.....	SGYA	5R01 HL13488-04	40,290
FARBER, SAUL J.....	HYPERTENSION, HEART FAILURE & RENAL PROSTAGLANDINS.....	CVB	1R01 HL17829-01	117,599
FRANKLIN, EDWARD C.....	RHEUMATIC DISEASES STUDY GROUP.....	AMP	5P01 AM01431-19	215,577
FRANKLIN, EDWARD C.....	STRUCTURE OF IMMUNOGLOBULINS AND RELATED PROTEINS.....	ALY	5R01 AM02594-17	119,665
FRANKLIN, EDWARD C.....	IMMUNOLOGIC STUDIES OF AMYLOID ACCOMPANYING AGING.....	ALY	5R01 HD07719-02	12,883
FREEDMAN, MICHAEL L.....	CONTROL OF POLYRIBOSOMES IN HUMAN RETICULOCYTES.....	HEM	2R01 AM13532-06	47,180
FRIEDMAN-KIEN, ALVIN E.....	RESISTANCE TO INTRACELLULAR BACTERIAL INFECTION.....	BM	5R01 AI10999-03	36,538
GALSTON, MORTON.....	PROTEASE/ANTIPROTEASE/CHRONIC OBSTRUCTIVE DISEASES.....	PTHA	5R01 HL14700-02	49,858
GARDNER, ESTHER P.....	NEURAL MECHANISMS OF CUTANEOUS SPATIAL INTEGRATION.....	CMS	1R01 NS11862-01	76,426
GEACINTOV, NICHOLAS E.....	POLYCYCLIC CARCINOGEN AND NUCLEIC ACID INTERACTIONS.....	ET	5R01 CA14980-02	32,301
GERSHON, ANNE A.....	V-Z VIRUS: CLINICAL IMPLICATIONS OF IMMUNITY.....	VR	1R01 AI12814-01	45,432
GILMOUR, DOUGLAS G.....	CHICKEN LYMPHOCYTE ALLOANTIGENS AND VIRAL ONCOGENESIS.....	IMB	5R01 CA14061-03	127,160
GOLDBERG, BURTON D.....	THE BIOSYNTHESIS AND METABOLISM OF PROCOLLAGEN.....	MBY	1R01 HL17551-01	87,252
GOLDSTEIN, BERNARD D.....	BIOCHEMICAL EFFECTS OF OZONE AND NO <sub>2</sub> IN THE LUNG.....	TOX	2R01 ES00673-04A1	36,497
GOLDSTEIN, BERNARD D.....	FLUORESCENT DETECTION OF RED CELL LIPID PEROXIDATION.....	TOX	1R01 HL18163-01	33,485
GOLDSTEIN, IRA M.....	COMPLEMENT MEDIATED IMMUNOPATHOLOGY.....	ALY	1R01 AM18531-01	35,157
GOLDSTEIN, MENEK.....	BIOGENIC AMINES AND EXTRAPYRAMIDAL DISORDERS.....	NEUB	5R01 NS06801-09	95,258
GOLOMB, FREDERICK M.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12280-05	51,098
GORDON, ALBERT S.....	HUMORAL CONTROL OF BLOOD CELL FORMATION AND RELEASE.....	HEM	2R01 HL03357-18	129,843
GROSSMAN, ALBERT.....	ENZYME INDUCTION AND SUBSEQUENT INACTIVATION.....	MET	5R01 HL3728-10	85,997
GUNNISON, ALBERT F.....	DISTRIBUTION AND FATE OF INHALED SULFUR DIOXIDE.....	TOX	5R01 ES00613-04	47,324
HALPERN, ARTHUR M.....	ALKALOIDS AND PROTOALKALOIDS: PHOTOPHYSICAL PROPERTIES.....	BBCA	1R01 GM22698-01	26,225
HASS, WILLIAM K.....	ASPIRIN IN CEREBRAL ISCHEMIA JOINT STUDY.....	TEC	5R01 HL14282-03	58,600
HELPERN, MILTON.....	INSTITUTE OF FORENSIC MEDICINE AS A RESEARCH RESOURCE.....	PTHB	5P07 RR00759-02	38,771
HIRSCHHORN, ROCHELLE.....	ACTIVATION OF IMMUNOCOMPETENT LYMPHOCYTES.....	IMB	2R01 AI10343-04	64,332
HOCHWALD, GERALD M.....	SPINAL FLUID PROTEINS AND BLOOD SPINAL FLUID BARRIER.....	NEUB	5R01 NS05024-11	91,046
HOLLANDER, CHARLES S.....	PHYSIOLOGICAL SIGNIFICANCE OF TRIIODOTHYRONINE.....	END	5R01 AM14314-06	36,013
HOLLANDER, CHARLES S.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00096-15	542,421
IMPARATO, ANTHONY M.....	INTIMAL FIBROPLASIA AFTER ARTERIAL RECONSTRUCTION.....	SGVB	5R01 HL16290-02	44,230
JAHIEL, RENE I.....	GROWTH OF MAMMALIAN PLASMODIA IN LIVER CELL CULTURES.....	TMP	5R01 AI11486-02	47,432
JOHNSON, ALAN J.....	COAGULATION, FIBRINOLYSIS, HEMOSTASIS AND HEPATITIS.....	HEP	5P01 HL15596-02	455,087
KARPATKIN, SIMON.....	BIOCHEMISTRY, PHYSIOLOGY, IMMUNOLOGY OF HUMAN PLATELETS.....	HEM	2R01 HL13336-06	89,856
KAUFMAN, LLOYD.....	INTERSENSORY PERCEPTION OF RELATIONS IN TIME AND SPACE.....	EXP	1R01 NS12398-01	40,798
KAYDEN, HERBERT J.....	LIPID METABOLISM.....	MET	5R01 HL06481-13	112,114
KLEINBERG, DAVID L.....	ROLE OF PROLACTIN IN BREAST AND PROSTATE CANCER.....	END	5R01 CA16149-02	40,950
KOPF, ALFRED W.....	MALIGNANT MELANOMA CLINICAL COOPERATIVE GROUP.....	CCI	2R10 CA13662-03	68,590
KREIBICH, GERT.....	ORGANIZATION AND BIOSYNTHESIS OF ER MEMBRANE PROTEINS.....	SSS	1R01 GM21971-01	63,242
KROHN, DAVID L.....	OCULAR CANCER DETECTION BY HEMATOPORPHYRYN FLUORESCENCE.....	VISA	1R01 CA18705-01	134,040
KUHNS, WILLIAM J.....	ABO(H) BLOOD GROUPS AND BLOOD GROUP ENZYMES IN CANCER.....	HEM	5R01 CA15516-02	41,875
LAKE, JAMES A.....	SPATIAL ARRANGEMENT OF PROTEINS IN RIBOSOMAL SUBUNITS.....	CTY	1R01 GM22291-01	53,093
LAMM, MICHAEL E.....	ANTIGENIC CHANGES IN MOUSE LEUKEMOGENESIS.....	IMB	5R01 CA08627-09	38,456
LAVIETES, BEVERLY B.....	EXPLOITABLE DIFFERENCES IN TUMOR CELL METABOLISM.....	ET	2R01 CA13074-03A1	46,577
LAWRENCE, H SHERWOOD.....	CELLULAR IMMUNE RESPONSES-NATURE OF TRANSFER FACTOR.....	ALY	5R01 AI01254-19	84,434
LAWRENCE, H SHERWOOD.....	CANCER SUPPORT GRANT (COMPREHENSIVE).....	CAP	1P01 CA16087-01	840,837
LAWRENCE, H SHERWOOD.....	IMMUNOLOGIC ASPECTS OF CANCER.....	CAK	5P01 CA16247-02	480,264
LE GEROS, RACQUEL Z.....	ENAMEL APATITES RELATING TO CARIES SUSCEPTIBILITY.....	BBCA	1R01 DE04123-01	86,782
LEVITZ, MORTIMER.....	ESTROGEN METABOLISM AND ACTION IN PREGNANCY AND CANCER.....	END	5R01 CA02071-22	93,919
LIKHTE, VINAY.....	RNA-ASSOCIATED TRANSFER FACTORS IN TUMOR IMMUNITY.....	ALY	5R01 CA17104-02	42,290



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
LIPKIN, GEORGE	RESTORATION OF CONTACT INHIBITION IN MELANOMAS	PTHB	1R01 CA16013-01	86,994
LIPKIN, GEORGE	SUPPRESSION OF GROWTH OF COLON CARCINOMA	SRC	1R26 CA18034-01	62,225
LIPPMANN, MORTON	REGIONAL DEPOSITION OF INHALED PARTICLES IN MAN	PTHA	5R01 ES00881-03	72,734
LO BUE, JOSEPH	PATHOPHYSIOLOGY OF A VIRALLY-INDUCED MURINE LEUKEMIA	PTHB	2R01 CA12815-03	74,038
LOWENSTEIN, JEROME	THE CONTROL OF ALDOSTERONE SECRETION	CVB	1R01 HL17450-01	42,164
MAAS, WERNER K.	CONTROL OF REPLICATION OF GENETIC ELEMENTS IN BACTERIA	MBC	2R01 AI09079-07	63,222
MAAS, WERNER K.	REGULATION OF ENZYME SYNTHESIS IN BACTERIA	MBC	5R01 GM06048-17	83,025
MC FALL, ELIZABETH	STUDIES ON CONTROL MECHANISMS IN ENZYME BIOSYNTHESIS	MBC	2R01 GM11899-12	59,952
MEISS, HARRIET K.	ISOLATION AND ANALYSIS OF DNA MUTANTS OF BHK CELLS	GEN	1R01 CA16631-01	55,717
MUSACCHIO, JOSE M.	REGULATION OF CATECHOLAMINE BIOSYNTHESIS	PHRA	5R01 AM13128-09	54,694
NELSON, NORTON	STUDY OF ENVIRONMENTAL CANCER	CAP	5P01 CA13343-03	684,501
NELSON, NORTON	RESEARCH IN THE ENVIRONMENTAL HEALTH SCIENCES	SSS	2P10 ES00260-13	1,288,493
NEWALL, JOSEPH	RADIATION THERAPY ONCOLOGY GROUP	CCI	5R10 CA15938-02	32,045
NUSSENZWEIG, RUTH S.	VACCINATION WITH IRRADIATED SPOROZOITES OF PLASMODIA	TMP	3R01 AI08952-05S1	255
NUSSENZWEIG, RUTH S.	VACCINATION WITH IRRADIATED SPOROZOITES OF PLASMODIA	IMB	5R01 AI08952-07	75,167
NUSSENZWEIG, VICTOR	CELL COOPERATION IN THE IMMUNE RESPONSE	ALY	5R01 AI08499-08	88,942
NUSSENZWEIG, VICTOR	PLASMA MEMBRANE OF NORMAL AND LEUKEMIC HUMAN LEUKOCYTES	ALY	5R01 AI11028-03	27,871
OVARY, ZOLTAN	IMMUNOLOGICAL MECHANISM OF ANAPHYLAXIS	ALY	2R01 AI03075-16	104,801
PALMES, EDWARD D.	MOUSE POPULATIONS AS TEST SYSTEMS IN TOXICOLOGY	SSS	5R01 ES00552-02	78,389
PASTERNAK, BERNARD S.	HUMAN RADIOACTIVITY DOSE STUDY	RRT	1R01 ES01120-01	32,592
PESKIN, CHARLES S.	COMPUTATIONAL METHODS IN CARDIAC FLUID DYNAMICS	COM	1R01 HL17859-01	38,823
PHILLIPS-QUAGLIATA, J. M.	ANTIBODY-MEDIATED CELL-CELL INTERACTIONS	ALY	5R01 AI08447-06	33,915
PIOMELLI, SERGIO	THE MECHANISM OF RED CELLS AGING—HEMOLYTIC ANEMIAS	HEM	2R01 AM09274-10A1	60,038
POST, JOSEPH	STUDY OF PROLIFERATION OF TUMOR CELLS	ET	5R01 CA14432-03	99,860
POTTER, JACOBUS	ANIMAL RESOURCES IMPROVEMENT PROGRAM	AR	5P06 RR00830-02	57,044
RABINOVITCH, MICHEL	MACROPHAGE SPREADING AND PARTICLE RECOGNITION	ALY	5R01 AI10969-05	43,764
RABINOVITCH, MICHEL	MACROPHAGE AND TUMOR CELL INTERACTIONS	PTHB	5R01 CA15565-02	32,677
RANSOHOFF, JOSEPH	CSF FORMATION AND ABSORPTION IN HYDROCEPHALUS	NEUA	2R01 NS06059-09A1	39,506
RANSOHOFF, JOSEPH	HEAD INJURY CLINICAL CENTER RESEARCH PROGRAM	NSPA	3P01 NS07366-07S1	3,400
RANSOHOFF, JOSEPH	CLINICAL RESEARCH CENTER FOR ACUTE SPINAL CORD INJURIES	NSPA	3P01 NS10164-02A1S1	20,000
RANSOHOFF, JOSEPH	CLINICAL RESEARCH CENTER FOR ACUTE SPINAL CORD INJURIES	NSPA	5P01 NS10164-03	466,015
RAPAPORT, FELIX T.	INDUCTION OF UNRESPONSIVENESS TO ALLOGRAFTS	SGYA	5R01 AI10658-03	94,346
RAPAPORT, FELIX T.	MECHANISMS OF CELL DAMAGE IN SEVERE BURNS	SGYA	5R01 GM12748-11	68,069
REEM, GABRIELLE H.	PURINE METABOLISM IN GENETIC DISEASE AND LEUKEMIA	MET	5R01 NS10164-03	64,232
RIPPS, HARRIS	VISUAL ADAPTATION IN THE VERTEBRATE RETINA	VISB	5R01 EY00285-11	129,195
ROSENBLUTH, JACK	COMPARATIVE CYTOLOGY OF MUSCLE AND NERVE TISSUES	CBY	5R01 NS07495-08	54,573
ROSENBLUTH, JACK	CYTOLOGY AND FUNCTION OF ADRENERGIC NEURONS IN BRAIN	CBY	5R01 NS09331-05	51,181
ROTH, SIDNEY G.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07062-10	37,232
SABATINI, DAVID D.	ATTACHMENT OF RIBOSOMES TO MICROSOMAL MEMBRANES	CBY	5R01 GM20277-03	64,195
SAGE, HAROLD H.	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA18002-01	70,200
SAMUELS, HERBERT H.	METABOLIC EFFECTS OF THYROID HORMONES IN CELL CULTURE	END	5R01 AM16636-03	66,526
SCHREIBER, SIDNEY S.	CARDIAC PROTEIN SYNTHESIS; OVERLOAD, ALCOHOL & ANOXIA	CVB	2R01 HL09562-10	64,919
SEGAL, ALVIN	MODE OF ACTION OF B-PROPIOLACTONE IN CARCINOGENESIS	ET	1R01 CA16992-01	56,508
SEIDMAN, IRVING	CHEMICAL CARCINOGENESIS OF THE MAMMARY GLAND	ET	5R01 CA13914-03	55,875
SHAPIRO, ROBERT	DAMAGE TO NUCLEIC ACIDS BY BISULFITE (SULFUR DIOXIDE)	BIO	5R01 ES01033-04	51,458
SHAPIRO, ROBERT	DAMAGED DNA: THE STRUCTURE OF DNA CROSS-LINKS	BIO	5R01 NS02176-02	34,082
SILBER, ROBERT	ENZYME STUDIES IN EXPERIMENTAL LEUKEMIA	PC	5R01 CA06657-13	51,162
SILBER, ROBERT	STUDIES OF LEUKOCYTE METABOLISM	HEW	2R01 CA11655-08	72,016
SILBER, ROBERT	EASTERN COOPERATIVE ONCOLOGY GROUP STUDIES	CCI	1R10 CA16395-01	54,548
SPRITZ, NORTON	CONTROL OF MYELIN SYNTHESIS IN NORMAL & DIABETIC STATES	MET	5R01 NS10763-07	60,001
STAHL, WILLIAM M.	CONTROL OF VOLUME OF FLUID REGULATION	SGYA	3R01 HL10927-09S1	9,027
STUART, THOMAS W.	DEVELOPMENT OF INTERACTIVE COMPUTER GRAPHICS	COM	5R01 NS10072-03	56,827
SZER, WLODZIMIERZ	MODE OF ACTION OF EDEINE ON MACROMOLECULAR SYNTHESIS	MBC	5R01 AI11517-03	27,393
TEEBOR, GEORGE W.	REPAIR MUTANTS ENZYMES & CHEMICAL CARCINOGENESIS	PTHB	1R01 CA16669-01	30,501
THORBECKE, GEERTRUIDA J.	LYMPHOID CELLS—PRODUCTION OF ANTIBODIES AND COMPLEMENT	ALY	5R01 AI03076-16	76,474
THORBECKE, GEERTRUIDA J.	PROPERTIES OF LYMPHOID TUMOR CELLS IN VIVO AND IN VITRO	PTHB	5R01 CA14462-03	58,400
TONNA, EDGAR A.	PERIODONTAL CHANGES DURING AGING	DEN	5R01 DE03014-07	82,092
TONNA, EDGAR A.	SKELETAL CELL AND MATRICAL CHANGES DURING AGING	DEN	5R01 HD03677-08	86,401
TROLL, WALTER	INHIBITION OF TUMOR PROMOTION BY PROTEASE INHIBITORS	SSS	2R01 CA16060-04A1	87,360

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
TROLL, WALTER.....	CORRELATION OF CARCINOGENICITY AND MUTAGENICITY.....	GEN	5R01 ES00505-09	67,148
VAN DUUREN, BENJAMIN L.....	INTERACTION OF ONCOGENIC AGENTS WITH CELL MEMBRANES.....	PTHB	5R01 CA14211-02	69,261
VAN DUUREN, BENJAMIN L.....	COCARCINOGENIC AGENTS IN CHEMICAL CARCINOGENESIS.....	PTHB	5R01 CA15095-02	56,441
VAN DUUREN, BENJAMIN L.....	CARCINOGENIC INTERMEDIATES OF VINYL CHLORIDE & ANALOGS.....	PTHB	1R01 ES01150-01	43,200
VILCEK, JAN T.....	INTERFERON AND RESISTANCE TO VIRUS INFECTION.....	MBY	2R01 AI07057-10	74,221
WEISS, GERSON.....	CONTROL OF THE PREGNANCY CORPUS LUTEUM.....	REB	1R01 HD09034-01	27,317
WEISSMANN, GERALD.....	MECHANISMS OF ARTHRITIS.....	ALY	5R01 AM11949-08	103,640
WEISSMANN, GERALD.....	LYSOSOMAL PROTEASES AND CHRONIC PULMONARY DISEASE.....	PTHA	5R01 HL15140-02	47,054
WESSLER, STANFORD.....	THROMBOGENESIS AND HEMOSTATIC BALANCE.....	HEM	7R01 HL18333-01	42,629
WESSLER, STANFORD.....	ON THE ANTITHROMBOTIC ACTION OF HEPARIN.....	HEM	2R01 HL18333-02	108,176
WIENER, ALEXANDER S.....	BLOOD GROUPS IN NONHUMAN PRIMATES.....	HEM	3R01 GM12074-11S1	91,469
WOLFF, B BERTHOLD.....	TOOTH PULP PAIN: ANALGESIC AND BEHAVIORAL FACTORS.....	SSS	1R01 DE04095-01	86,886
WOLFF, B BERTHOLD.....	STUDY OF RELIEF OF HUMAN LABORATORY-INDUCED PAIN.....	SGYB	5R01 GM20228-02	81,249
WOLMAN, SANDRA R.....	CARCINOGEN-INDUCED CHROMOSOME CHANGES AND TRANSFORMATION.....	GEN	5R01 CA13821-03	33,247
WU, WEN-HSIEN.....	DEVELOPMENT OF A SEMIAUTOMATIC BIOASSAY FOR VASOPRESSIN.....	CVB	3R01 HL17723-01S1	9,667
WU, WEN-HSIEN.....	STUDIES OF PATHOPHYSIOLOGY OF VASOPRESSIN IN MAN.....	CVB	5R01 HL17723-02	57,030
YUE, ROBERT H.....	STUDIES ON ANTITHROMBIN III.....	HEM	1R01 HL17582-01	32,020
ZADUNAISKY, JOSE A.....	ELECTROPHYSIOLOGICAL STUDY OF CORNEAL FUNCTION.....	VISA	5R01 EY01340-02	96,675
ZOLLA, SUSAN B.....	MECHANISM OF IMMUNOSUPPRESSION BY MOUSE PLASMACYTOMAS.....	PTHB	5R01 CA15496-05	34,425
ZOLLA, SUSAN B.....	A SOLUBLE MEDIATOR OF TUMOR-INDUCED IMMUNOSUPPRESSION.....	PTHB	5R01 CA15585-02	33,773
ZUCKER-FRANKLIN, DOROTHEA.....	ULTRASTRUCTURE OF LEUKOCYTES AND PLATELETS.....	HEM	5R01 AM12274-08	64,002
ORGANIZATION TOTAL	170 14,740,233			
<b>NEW YORK ZOOLOGICAL SOCIETY ZIP CODE 10460</b>				
KALLMAN, KLAUS D.....	INTEGRATED GENETIC SYSTEMS IN XIPHOPHORUS.....	GEN	5R01 GM19934-13	39,169
ORGANIZATION TOTAL	1 39,169			
<b>POLYTECHNIC INSTITUTE OF NEW YORK ZIP CODE 11201</b>				
BERINGER, F MARSHALL.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07063-10	20,585
COPLEY, ALFRED L.....	FIBRINOGEN POLYMER LAYERS: RHEOLOGY & ULTRASTRUCTURE.....	SSS	1R01 HL19013-01	42,800
MORAWETZ, HERBERT.....	SYNTHETIC POLYMER STUDIES RELATED TO BIOLOGY.....	BBCB	3R01 GM05811-15S1	3,844
NIELSEN, JOHN P.....	STUDY OF DENTAL GOLD-BASE ALLOYS.....	DEN	1R01 DE03613-01	69,068
ROY, HARRY.....	ASSEMBLY OF A EUKARYOTIC PROTEIN IN VITRO.....	MBY	1R01 GM21670-01A1	77,723
ORGANIZATION TOTAL	5 214,020			
<b>POPULATION COUNCIL ZIP CODE 10017</b>				
LANMAN, JONATHAN T.....	STUDIES ON CONTROL OF TIMING AND CHARACTER OF LABOR.....	HED	5R01 HD07290-03	26,976
SEGAL, SHELDON J.....	POPULATION STUDIES.....	HDPR	5P01 HD05671-04	480,297
ORGANIZATION TOTAL	2 507,273			
<b>RIVERSIDE RESEARCH INSTITUTE ZIP CODE 10023</b>				
LIZZI, FREDERIC L.....	ULTRASONIC EVALUATION OF OCULAR TISSUES.....	RAD	5R01 EY01212-02	91,202
LIZZI, FREDERIC L.....	STUDY OF ULTRASONICALLY INDUCED OCULAR DAMAGE.....	VISA	1R01 EY01480-01	111,436
ORGANIZATION TOTAL	2 202,638			
<b>ROCKEFELLER UNIVERSITY ZIP CODE 10021</b>				
AHRENS, EDWARD H, JR.....	CLINICAL AND LABORATORY STUDIES IN LIPID METABOLISM.....	MET	2R01 HL06222-14	313,954
AHRENS, EDWARD H, JR.....	RESEARCH IN PREVENTION OF PREMATURE ARTERIOSCLEROSIS.....	SRC	5P17 HL14236-05	2,091,369
ALLFREY, VINCENT G.....	NUCLEAR PROTEINS IN CARCINOGENESIS OF THE COLON.....	SRC	3R26 CA14908-02S1	100,698
ALLFREY, VINCENT G.....	CHEMISTRY AND METABOLISM OF DNA-ASSOCIATED PROTEINS.....	MBY	5R01 GM17383-05	55,778
ASANUMA, HIROSHI.....	CEREBRAL CORTICAL CONTROL OF MOVEMENT.....	PHY	5R01 NS10705-03	72,410
BLOBEL, GUNTER K.....	FREE AND MEMBRANE-BOUND POLYSOMES IN PROTEIN SYNTHESIS.....	SSS	2R01 CA12413-04	66,800
BLOBEL, GUNTER K.....	NUCLEAR PORE COMPLEX-LAMELLA STRUCTURE AND FUNCTION.....	CBY	1R01 GM21751-01	32,382
BOWERS, WILLIAM E.....	LYMPHOCYTE-MEDIATED CYTOTOXICITY AGAINST TUMOR CELLS.....	ALY	1R01 CA16875-01	55,943
BRAUN, ARMIN C.....	TRANSFORMATION AND RECOVERY OF CROWN GALL TUMOR CELLS.....	CBY	5R01 CA13808-03	67,198
CERAMI, ANTHONY.....	BIOLOGICAL EFFECT OF CYANATE ON SICKLE CELL DISEASE.....	PHRA	5R01 HL14873-03	113,125
CHASE, MERRILL W.....	MECHANISMS OF DELAYED-TYPE HYPERSENSITIVITY.....	IMB	5R01 AI01258-19	107,685
CHOPPIN, PURNELL W.....	MYXOVIRUSES/STRUCTURE, REPLICATION, MEMBRANE INTERACTION.....	SSS	5R01 AI05600-13	111,250
CHUA, NAM-HAI.....	MEMBRANE-BOUND RIBOSOMES IN CHLOROPLASTS AND BACTERIA.....	MBC	5R01 GM21060-02	42,078

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
COHN, ZANVIL A.	THE PHYSIOLOGY OF MACROPHAGES	ALY	5R01 A107012-10	73,999
CRANFIELD, PAUL F.	MECHANISM AND PREVENTION OF CARDIAC ARRHYTHMIAS	CVA	5R01 HL14899-03	66,928
D'ALESSANDRO, PHILIP A.	COMPARATIVE STUDY OF TRYPANOSOMAL EXOANTIGENS	TMP	5R01 A111126-02	26,933
DARNELL, JAMES E., JR.	RNA AND GROWTH CONTROL IN ANIMAL CELLS	MBY	5R01 CA16006-02	171,056
DE DUVE, CHRISTIAN R.	MECHANISMS OF CELLULAR AGING AND DEGENERATION	HDAG	3P01 HD05065-04S1	31,174
DE DUVE, CHRISTIAN R.	MECHANISMS OF CELLULAR AGING AND DEGENERATION	HDAG	2P01 HD05065-05	187,808
DE DUVE, CHRISTIAN R.	SUBCELLULAR EVENTS IN ATHEROSCLEROSIS	PTHA	1R01 HL18157-01	133,927
EDELMAN, GERALD M.	STRUCTURE AND ACTIVITY OF IG PROTEINS	ALY	5R01 A109273-07	140,612
EDELMAN, GERALD M.	CELL BIOLOGY & CHEMISTRY OF LYMPHOCYTES & THEIR PRODUCTS	SSS	5P01 A111378-03	297,558
EDELMAN, GERALD M.	INTERACTION AND ENERGY TRANSFER IN BIOLOGICAL SYSTEMS	PC	5R01 AM04256-15	65,897
FEDORKO, MARTHA E.	IRON STORAGE & MOBILIZATION IN THE MACROPHAGE SERIES	PTHA	5R01 AM14678-05	29,033
FEDORKO, MARTHA E.	CELL BIOLOGY OF MEGAKARYOCYTES FROM BONE MARROW	HEM	5R01 HL16271-02	65,471
FIELD, FRANK H.	PURIFICATION AND STRUCTURE OF ACTIVE PRINCIPLES	BBCB	5R01 AM02493-17	124,658
FIELD, FRANK H.	A MASS SPECTROMETRIC BIOTECHNOLOGY RESOURCE	MCHB	5P07 RR00862-02	108,738
FISCHETTI, VINCENT A.	PROPERTIES OF STREPTOCOCCAL M-PROTEINS	ALY	5R01 A111822-02	33,410
FIRSCH, CARL E.	PATHOGENIC AND CARRIER MENINGOCOCCAL SUBTYPES	BM	1R01 NS11863-01	21,430
GALL, W. EINAR	BIOCHEMISTRY OF SPERMATOZOAN STRUCTURES	REB	5R01 HD07014-03	38,542
GILULA, NORTON B.	HEART CELL INTERACTIONS AND CELL JUNCTION BIOGENESIS	CBY	3R01 HL16507-01S1	21,340
GOLDBERG, ALLAN R.	RSV FUNCTIONS INVOLVED IN TRANSFORMATION	VR	2R01 CA13362-04	55,147
GOTSCHLICH, EMIL C.	IMMUNOCHEMICAL STUDIES ON GONOCOCCAL SURFACE ANTIGENS	BM	2R01 A110615-04	46,660
GRANICK, SAM	HEME AND CHLOROPHYLL BIOSYNTHESIS	BIO	5R01 GM04922-19	54,570
GREGORY, JOHN D.	LINKAGE REGION OF CARTILAGE KERATAN SULFATE	SSS	5R01 AM18165-01	40,641
HANAFUSA, HIDESABURO	CELLULAR ALTERATION INDUCED BY ROUS SARCOMA VIRUS	VR	5R01 CA14935-03	134,836
HANAFUSA, TERUKO	ROLE OF HOST CELLS IN VIRUS INDUCED TUMORS	VR	5R01 CA14936-03	39,874
HAYWARD, WILLIAM S.	RNA TUMOR VIRUS GENE EXPRESSION	VR	1R01 CA16668-01	35,641
HIRSCH, JAMES G.	FUNCTIONS OF LEUCOCYTES	ALY	5R01 A101831-18	85,999
HIRSCH, JULES	METABOLIC REGULATIONS IN HUMAN OBESITY	NTN	9R01 AM18325-11	132,597
HIRSCH, JULES	GROWTH AND DEVELOPMENT OF ADIPOSE TISSUE	MET	5R01 HD02761-08	59,221
HOTCHKISS, ROLLIN D.	DEOXYRIBONUCLEATES GOVERNING DRUG RESISTANCE	MBC	2R01 A103170-16	55,414
HURLBUT, WILLIAM P.	TRANSMITTER RELEASE AT THE NERVE-MUSCLE JUNCTION	NEUB	5R01 NS10883-02	47,729
KAPPAS, ATTALIAH	LEAD AND PCB'S: PHARMACOLOGIC AND TOXICOLOGIC STUDIES	TOX	5R01 ES01055-02	115,470
KINDT, THOMAS J.	GENETIC COMPONENTS OF THE IMMUNE RESPONSE	IMB	5R01 A111439-02	41,778
KINDT, THOMAS J.	IMMUNOCHEMICAL STUDY OF RABBIT ANTIBODY ALLOTYPES	ALY	5R01 A111995-02	45,720
KING, TE PIAO	CHEMICAL STUDY OF PROTEINS OF IMMUNOLOGICAL INTEREST	ALY	5R01 A108445-06	24,224
KNIGHT, BRUCE W., JR.	MATHEMATICAL ANALYSES OF NEURAL NETWORKS	VISB	1R01 EY01428-01	56,609
KRAUSE, RICHARD M.	BACTERIAL ANTIGENS AND ANTIBODIES	ALY	5R01 A108429-09	118,390
KUNKEL, HENRY G.	STUDIES OF MYELOMA PROTEINS AND ANTIBODIES	ALY	5R01 A110811-10	64,142
KUNKEL, HENRY G.	IMMUNOLOGICAL MECHANISMS IN RHEUMATOID ARTHRITIS	ALY	5R01 AM04761-15	62,049
LEONARD, CHRISTIANA M.	NEURAL SUBSTRATE OF BEHAVIORAL DEVELOPMENT	EXP	1R01 NS11732-01	40,860
LIPMANN, FRITZ	NONRIBOSOMAL AND RIBOSOMAL POLYPEPTIDE SYNTHESIS	PC	2R01 GM13972-09	181,120
LUCK, DAVID J.	BIOCHEMICAL GENETICS OF MICROTUBULES	GEN	5R01 GM17132-06	86,581
LUCK, DAVID J.	BIOGENESIS OF MITOCHONDRIA	CBY	5R01 GM21059-02	51,568
MANNING, JAMES M.	ANTIBACTERIAL ACTION OF BETA-HALOAMINO ACIDS	MBC	5R01 A112141-02	32,138
MANNING, JAMES M.	CHEMICAL BASIS OF CYANATE THERAPY IN SICKLE CELL ANEMIA	BIO	9R01 HL18819-04	74,415
MAUZERALL, DAVID	PHOTOBIOLOGICAL SYSTEMS AND MEMBRANE INTERFACES	BBCA	5R01 GM20729-02	39,457
MC CARTY, MACLYN	CELL SURFACE OF STREPTOCOCCI	ALY	5R01 HL03919-17	109,668
MC CARTY, MACLYN	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00102-12	995,300
MC CARTY, MACLYN	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07065-10	141,159
MC EWEN, BRUCE S.	GENE EXPRESSION IN NERVOUS TISSUE	NEUB	2R01 NS07080-09	87,562
MERRIFIELD, ROBERT B.	SOLID PHASE SYNTHESIS OF PEPTIDES AND PROTEINS	PC	2R01 AM01260-19	125,849
MOORE, STANFORD	ENZYME SYSTEMS IN BRAIN	PC	5R01 NS09639-05	57,042
NORGREN, RALPH E.	NEURAL SYSTEMS OF INGESTIVE BEHAVIOR	EXP	2R01 NS10150-04	49,880
PPAFFMANN, CARL	MECHANISMS OF OLFACTORY COMMUNICATION	CMS	5R01 NS08902-06	94,319
RATLIFF, FLOYD	ELECTRICAL ACTIVITY, SINGLE RECEPTORS, NEURONS OF EYE	VISB	2R01 EY01088-20	63,775
REICH, EDWARD	CHEMOTHERAPEUTIC DEOXYNUCLEOSIDES AND OTHER AGENTS	PHRB	5R01 CA08290-10	214,428
REICH, EDWARD	NUCLEIC ACID METABOLISM OF MAMMALIAN CELLS IN CULTURE	MBY	5R01 GM10717-13	64,457
RIFKIN, DANIEL B.	MEMBRANE PROTEINS OF NORMAL AND MALIGNANT CELLS	CBY	2R01 CA13138-04	63,824
SCHLEE, GEORGE A.	SECRETORY PATHWAY IN THE EXOCRINE PANCREAS	MBY	1R01 AM18532-01	75,038
SCOTT, WILLIAM A., III	REGULATION OF MEMBRANE ADENYL CYCLASE	MBC	1R01 GM21071-01A1	31,450
SHAPLEY, ROBERT M.	SPATIAL SUMMATION AND DYNAMICS OF VISUAL NEURONS	VISB	1R01 EY01472-01	26,000



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
SIEKEVITZ, PHILIP	BIOGENESIS OF INTRACELLULAR MEMBRANES	CBY	5R01 HD01689-10	59,051
SILVERSTEIN, SAMUEL C.	ROLE OF MONONUCLEAR LEUCOCYTES IN VIRAL IMMUNITY	VR	2R01 AI08697-07	67,355
STEIN, WILLIAM H.	CHEMICAL STRUCTURE AND ENZYME ACTIVITY OF PROTEINS	PC	5R01 GM07256-16	115,659
TAMM, IGOR	VIRUS-INDUCED ALTERATIONS IN ANIMAL CELLS	VR	9R01 CA18608-16	109,311
TATUM, EDWARD L.	BIOCHEMICAL GENETICS OF MICROORGANISMS	GEN	3R01 GM16224-17A1S1	6,050
TOMASZ, ALEXANDER	FUNCTIONS AND MODE OF REPLICATION OF TEICHOIC ACIDS	MMC	5R01 AI09423-06	42,382
TRAGER, WILLIAM	MEMBRANE PHYSIOLOGY IN INTRACELLULAR PARASITISM	TMP	2R01 AI08989-06A1	58,970
TRAGER, WILLIAM	PHYSIOLOGY OF INTRACELLULAR PARASITISM	TMP	5R01 AI10640-04	59,926
TRAGER, WILLIAM	HOST-PARASITE MEMBRANE INTERACTIONS IN LEISHMANIASIS	TMP	1R01 AI11916-01	58,200
WILSON, VICTOR J.	STUDIES ON MOTOR CONTROL	PHY	5R01 NS02619-16	84,147
ZABRISKIE, JOHN B.	IMMUNOLOGIC RESPONSES IN NEOPLASTIC GROWTH	ALY	5R01 CA15167-02	31,705
ZABRISKIE, JOHN B.	CELLULAR AND HUMORAL REACTIONS IN TRANSPLANTATION	SGYA	5R01 HL13572-04	27,148
ZIFF, EDWARD B.	STRUCTURE OF REGULATORY ELEMENTS IN ADENOVIRUS DNA	VR	1R01 GM21779-01	46,796
ORGANIZATION TOTAL	86	9,658,485		
<b>ROOSEVELT HOSPITAL ZIP CODE 10019</b>				
CHRISTY, NICHOLAS P.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05663-08	62,362
FEIGELSON, MURIEL H.	MECHANISMS OF POSTNATAL ENZYME DEVELOPMENT	HED	5R01 HD08712-02	127,510
ROSNER, WILLIAM	ESTROGEN BINDING IN HUMAN SERUM	END	5R01 AM11852-08	90,093
WEISS, HARVEY J.	PRIMARY DISORDERS OF PLATELET FUNCTION	HEM	2R01 HL14595-04	121,365
ORGANIZATION TOTAL	4	401,330		
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH ZIP CODE 10021</b>				
ALBRECHT, ALBERTA M.	MICROBIAL ENZYMES IN THE THERAPY OF NEOPLASIA	ET	1R01 CA17839-01	56,591
BALAZS, IVAN	DYNAMICS OF GENE PRODUCT SYNTHESIS IN MAMMALIAN CELLS	SSS	1R01 CA17159-01	50,891
BALIS, M. EARL	ENZYMES OF NORMAL AND MALIGNANT INTESTINAL MUCOSA	SRC	5R26 CA14906-03	159,144
BEAN, MICHAEL A.	CELLULAR IMMUNE RESPONSES TO HUMAN BLADDER CARCINOMA	SRC	1R26 CA16945-01	44,860
BIEDLER, JUNE L.	DECREASED MALIGNANCY OF DRUG RESISTANT CELL VARIANTS	MBY	1R01 CA17927-01	67,388
BOYSE, EDWARD A.	THE CELL SURFACE	CAK	1P01 CA16889-01	764,927
BROWN, GEORGE B.	STUDY OF ONCOGENESIS BY PURINE DERIVATIVES	ET	5R01 CA15274-02	146,160
BROWN, GEORGE B.	MOLECULAR BIOLOGY—CANCER PROGRAM PROJECT GRANT	CAK	1P01 CA17085-01	893,791
CAVALIERI, LIEBE F.	MECHANISM OF REVERSE TRANSCRIPTION OF ONCOGENIC RNA	BIO	1R01 CA18383-01	48,197
CHIAO, JEN W.	NATURE OF LYMPHOCYTES WITH BOTH B- AND T-CELL MARKERS	ALY	1R01 AI12843-01	37,968
CHOI, YONG S.	RECOGNITION OF TUMOR CELLS BY T LYMPHOCYTES	ALY	5R01 CA17049-02	54,528
CHOI, YONG S.	IMMUNOBIOLOGY IMMUNODEFICIENCY AND CANCER	CAK	1P01 CA17404-01	1,144,495
CHOU, TING-CHAO	CYTOTOXICITY OF CYTOSINE ARABINOSIDE IN VIVO	ET	1R01 CA16534-01	44,323
DUPONT, BO	SYMPOSIUM ON BONE MARROW TRANSPLANTATION	NSS	1R13 CA18642-01	32,995
ESSNER, EDWARD S.	ROLE OF LYSOSOMES IN CHEDIAK-HIGASHI SYNDROME	PTHA	5R01 AM17210-02	52,002
ESSNER, EDWARD S.	A CYTOCHEMICAL AND MORPHOLOGICAL STUDY OF COLON	SRC	1R26 CA17212-01	49,337
FISSEKIS, JOHN D.	5-SUBSTITUTED PYRIMIDINES AND CANCER CHEMOTHERAPY	MCHA	5R01 CA16191-02	39,184
FLEISSNER, ERWIN J.	VIRAL AND MOUSE GENES IN LEUKEMIA VIRUS INFECTION	VR	5R01 CA15297-02	71,310
FRIED, JERROLD	GROWTH KINETICS AND DRUG RESPONSE OF CELL POPULATIONS	ET	1R01 CA16757-01	86,395
GINER-SOROLLA, ALFREDO	PSYCHOTROPIC DRUGS AS POTENTIAL CARCINOGENS	ET	1R01 CA17860-01	51,809
GOLDSTEIN, GIDEON	THYMIN INDUCTION OF T-CELL DIFFERENTIATION	IMB	5R01 AI12487-02	56,820
GOOD, ROBERT A.	NONSPECIFIC RESISTANCE TO INFECTION AND INTOXICATION	ALY	5R01 AI11843-03	72,247
GOOD, ROBERT A.	CANCER RESEARCH PROGRAM	CAK	5P01 CA08748-10	8,745,614
HAHN, ERIC W.	HEAT AND RADIATION ON NEOPLASMS: OPTIMAL FRACTIONATION	RAD	1R01 CA17410-01	28,056
HAMMERLING, ULRICH G.	T-LYMPHOCYTES FROM PRECURSOR CELLS IN VITRO	IMB	5R01 HD08415-02	83,333
HOFFMAN, MICHAEL K.	REGULATION OF IMMUNITY BY ANTIBODY AND B-CELLS	IMB	1R01 CA17673-01	63,288
KIM, YOON B.	ONTOGENY OF THE HUMORAL AND CELLULAR IMMUNE RESPONSE	IMB	5R01 HD08957-02	50,630
KINCADE, PAUL W.	DESIGN OF A DIRECT ASSAY FOR HEMOPOIETIC STEM CELLS	IMB	1R01 AI12740-01	34,436
KINCADE, PAUL W.	EARLY EVENTS IN MAMMALIAN B-CELL DIFFERENTIATION	IMB	1R01 AI12741-01	62,882
KISZKISS, DAVID F.	AFFINITY LABELING OF LYMPHOCYTE ANTIGEN RECEPTORS	ALY	1R01 CA18613-01	36,836
KRAKOFF, IRWIN H.	CLINICAL CHEMOTHERAPY AND PHARMACOLOGY	SSS	5R01 CA15857-02	168,376
KREIS, WILLI	TETRAHYDROURIDINE & 1-BETA-D ARABINOFURANOSYLCYTOSINE	ET	1R01 CA18557-01	36,443
LIPKIN, MARTIN	RENEWAL OF PREMALIGNANT AND MALIGNANT INTESTINAL CELLS	PTHB	5R01 CA14991-03	90,291
MARCUS, STUART L.	RLV DNA POLYMERASE ENZYMOLOGY AND RADIOIMMUNOASSAY	BIO	1R01 CA18369-01	48,614
MARQUARDT, HANS W.	HYDROCARBON-INDUCED MALIGNANT TRANSFORMATION IN VITRO	ET	5R01 CA15205-02	42,357
MOORE, MALCOLM A.	MARROW CULTURE STUDIES—HUMAN MYELOID LEUKEMIA, ETC.	PTHB	1R01 CA17353-01	82,735
OLD, LLOYD J.	ONCOGENIC VIRUSES PROGRAM PROJECT	CAK	1P01 CA16599-01	565,833

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
ROBERTS, JOSEPH.....	A PROGRAM FOR DEVELOPMENT OF NEW ANTITUMOR ENZYMES.....	ET	5R01 CA15860-02	65,309
SARKAR, NURUL H.....	COMPONENTS OF THE MOUSE MAMMARY TUMOR VIRUS.....	SSS	1R01 CA17129-01	51,411
SHAPIRO, WILLIAM R.....	TREATMENT OF EXPERIMENTAL NERVOUS SYSTEM TUMORS.....	PTHA	5R01 CA15792-02	59,869
SHERMAN, MERRY R.....	GEL ELECTROPHORESIS OF BREAST CANCER STEROID RECEPTORS.....	ET	1R01 CA16814-01	38,755
SKIPSKI, VLADIMIR P.....	NEOPROTEOLIPIDS ASSOCIATED WITH MALIGNANT TUMORS.....	PC	5R01 CA15169-02	47,150
STUTMAN, OSIAS.....	IMMUNE SURVEILLANCE AND CANCER.....	PTHB	2R01 CA15988-02	49,600
THOMAS, LEWIS.....	THE PATHOLOGY OF EXPERIMENTAL MYCOPLASMA INFECTION.....	BM	5R01 HL12081-02	89,837
TROTTA, PAUL P.....	ADENOSINE DEAMINASE REGULATION AND ITS ROLE IN CANCER.....	BIO	1R01 CA18428-01	36,566
ZEDECK, MORRIS S.....	A MODEL SYSTEM FOR STUDIES OF COLON CARCINOGENESIS.....	SRC	5R26 CA15637-02	48,702
ORGANIZATION TOTAL	46 14,652,285			
<b>ST. LUKE'S HOSPITAL CENTER ZIP CODE 10025</b>				
BERNSTEIN, ROBERT S.....	REGULATION OF ADIPOCYTE INSULIN SENSITIVITY.....	MET	5R01 AM17200-02	46,491
BERTLES, JOHN F.....	GENETIC CONTROL OF HEMOGLOBIN SYNTHESIS.....	SSS	5R01 AM08154-11	95,098
BERTLES, JOHN F.....	CHEMICAL MODIFICATIONS OF SICKLE CELL HEMOGLOBIN.....	BBCA	1R01 AM17751-01	49,203
BERTLES, JOHN F.....	INTERACTIONS AND AGGREGATION IN SICKLE CELL HEMOGLOBIN.....	BBCB	5R01 HL15293-03	81,441
BERTLES, JOHN F.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 R005501-13	107,628
BOKKENHEUSER, VICTOR D.....	BACTERIA OF THE GASTROINTESTINAL TRACT.....	BM	5R01 AM16588-02	37,982
CASE, ROBERT B.....	CONTROL OF CORONARY FLOW BY PCO2.....	CVB	5R01 HL16307-02	29,720
CLARK, SUSANNE B.....	MECHANISMS OF CHYLOMICRON CHOLESTEROL HOMEOSTASIS.....	GMA	5R01 AM17685-02	62,553
HASHIM, SAMI A.....	MEDIUM CHAIN FATS: PHYSIOLOGY & CLINICAL IMPLICATIONS.....	NTN	5R01 AM17191-02	80,031
HOLT, PETER R.....	INTESTINAL ABSORPTION AND METABOLISM OF FATS.....	GMA	5R01 AM13436-11	128,296
PIERSON, RICHARD N, JR.....	QUANTITATIVE RADIOCARDIOGRAPHY: A CRITICAL EVALUATION.....	RAD	1R01 HL16313-01A1	134,893
RYAN, STEPHEN F.....	EXPERIMENTAL ACUTE ALVEOLAR INJURY.....	PTHA	1R01 HL16592-01A1	89,000
VAN ITALLIE, THEODORE B.....	BODY NUTRIENT RESERVES AND FEEDING BEHAVIOR.....	NTN	5R01 AM17259-02	59,467
VAN ITALLIE, THEODORE B.....	OBESITY CENTER.....	SSS	3P17 AM17624-01S1	22,290
ORGANIZATION TOTAL	14 1,024,093			
<b>ST. VINCENT'S HOSPITAL AND MEDICAL CENTER OF NEW YORK ZIP CODE 10011</b>				
BARTFELD, HARRY.....	CAUSE AND MECHANISMS OF AMYOTROPHIC LATERAL SCLEROSIS.....	NSPA	1P01 NS11605-01A1	283,548
DELANEY, WILLIAM E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 R005502-11	43,124
GROSSI, CARLO E.....	SURGICAL TREATMENT OF COLORECTAL CANCER.....	SGYA	5R01 CA10661-08	60,559
NEALON, THOMAS F, JR.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12288-05	47,718
SCHWARZ, GEORGE.....	X-RAY DOSE RATE EFFECTS ON CELL KINETICS.....	RAD	1R01 CA17582-01	40,068
ORGANIZATION TOTAL	5 475,017			
<b>STATE UNIVERSITY OF NEW YORK—DOWNSTATE MEDICAL CENTER ZIP CODE 11203</b>				
ALTURA, BURTON M.....	CIRCULATORY SHOCK, TRAUMA AND RE-SYSTEM FUNCTION.....	SGYB	1R01 HL18002-01	60,361
ALTURA, BURTON M.....	PHARMACOLOGIC STUDIES ON VASCULAR SMOOTH MUSCLE.....	PHRA	7R01 HL18015-01	68,090
AMASSIAN, VAHE E.....	PHYSIOLOGICAL DATA PROCESSING AND ANALYSIS.....	COM	2R01 NS10987-03	103,219
AMASSIAN, VAHE E.....	INTERRELATIONSHIPS OF SENSORIMOTOR NEURONS.....	NEUB	2R01 NS11219-03	60,597
ANDERSON, HARRISON C.....	CALCIFYING MATRIX VESICLES OF CARTILAGE AND BONE.....	GMB	1R01 AM17836-01	34,068
ANDERSON, HARRISON C.....	INDUCED OSSIFICATION: FL & HELA CELLS.....	PTHB	5R01 CA10052-10	46,707
BROOME, JOHN D.....	MITOSIS PROMOTION IN LYMPHOMA CELLS AND CHEMOTHERAPY.....	ET	5R01 CA16034-02	51,580
CARTER, ANNE C.....	COOPERATIVE BREAST CANCER GROUP STUDY.....	CCI	2R10 CA03358-18	93,416
DAMADIAN, RAYMOND V.....	ALTERED NMR SIGNALS OF WATER IN THE CANCER CELL.....	SSS	2R01 CA14988-04A1	112,749
DAMADIAN, RAYMOND V.....	SELECTIVITY, ION ACTIVITIES AND NMR OF BIOLOGICAL TISSUE.....	SSS	1R01 GM21733-01	46,952
DAVID, ANSEL E.....	SV40 INDUCED HOST DNA REPLICATION.....	SSS	1R01 CA17101-01	40,366
DEBONS, ALBERT F.....	HYPOTHALAMIC REGULATION OF FOOD INTAKE.....	MET	5R01 AM12479-08	39,795
DETWILER, THOMAS C.....	REACTIONS OF THROMBIN AND COLLAGEN WITH PLATELETS.....	HEM	5R01 HL16355-02	26,142
DETWILER, THOMAS C.....	STIMULUS-RESPONSE COUPLING IN PLATELETS.....	HEM	1R01 HL17729-01	65,046
DORNFEST, BURTON S.....	RETICULOENDOTHELIAL SYSTEM FUNCTION IN LEUKEMIC RATS.....	IMB	5R01 CA12892-03	20,671
FEINMAN, RICHARD D.....	MECHANISM OF THROMBIN ACTION.....	HEM	2R01 HL14992-04	30,585
FRIEDMAN, ELI A.....	TRANSPLANTATION & IMMUNOGENICITY OF ISLET OF LANGERHANS.....	IMB	1R01 AM17899-01	45,761
FRIEDMAN, STANLEY.....	THE RELATIONSHIP BETWEEN tRNA MODIFICATION & CELL GROWTH.....	PC	5R01 CA16936-02	29,478
FURCHGOTT, ROBERT F.....	LOCAL FACTORS INFLUENCING RESPONSES TO ADRENERGIC DRUGS.....	PHRA	5R01 NS10195-16	78,577
GARDNER, BERNARD.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17982-01	98,604
GERBER, DONALD A.....	METABOLIC ABNORMALITIES IN RHEUMATOID ARTHRITIS.....	GMA	2R01 AM10370-10	69,847
HALPERN, MIMI N.....	FUNCTIONAL STUDIES OF THE VOMERONASAL SYSTEM.....	EXP	5R01 NS11713-02	23,962
HALPERN, MIMI N.....	ANATOMICAL SUBSTRATES FOR VOMERONASAL FUNCTIONS.....	NEUX	1R01 NS12152-01	41,825

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
HOLDEN, DOROTHY M.....	SUPPORT FOR CENTER FOR SICKLE CELL ANEMIA.....	SRC	5P18 HL15170-04	575,327
HOWE, MICHAEL L.....	SUBPOPULATIONS OF THYMUS-DEPENDENT LYMPHOCYTES.....	IMB	2R01 AI10158-04	130,937
KAO, FREDERICK F.....	REGULATION OF RESPIRATION AT REST AND DURING EXERCISE.....	CVA	3R01 HL04032-21S1	4,383
KAUFFMAN, SHIRLEY L.....	PULMONARY CARCINOGENESIS IN FETAL AND NEONATAL LUNG.....	PTHB	5R01 CA14874-02	40,074
KAUFFMAN, SHIRLEY L.....	LUNG PRENEOPLASTIC HYPERPLASIA AND CHEMICAL CARCINOGENS.....	PTHA	1R01 CA17569-01	39,131
KAVALER, FREDERIC.....	DEPOLARIZATION-CONTRACTION-RELATIONSHIP-HEART MUSCLE.....	CVA	5R01 HL12774-06	44,571
KOIZUMI, KIYOMI.....	MECHANISM OF FUNCTION OF INTEGRATIVE CENTERS.....	NEUB	2R01 NS00847-20A1	39,645
KOUNTZ, SAMUEL L.....	COMBINATION IMMUNOSUPPRESSION IN KIDNEY TRANSPLANTS.....	IMB	5R01 AM17001-02	91,501
LASTER, LEONARD.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05401-14	217,815
LEE, KWANG S.....	EXCITATION-CONTRACTION COUPLING AND HEART FAILURE.....	CVB	1R01 HL16706-01	37,662
LERNER, LEON M.....	ANALOGS OF DECOYININE AS POTENTIAL ANTITUMOR AGENTS.....	MCHA	5R01 CA13802-03	29,711
LEVERE, RICHARD D.....	CONTROL MECHANISMS IN HEME SYNTHESIS.....	HEM	2R01 AM09838-10	48,476
LYONS, HAROLD A.....	EVALUATION OF STEROID THERAPY IN SARCOIDOSIS.....	EDC	5R01 HL16651-02	72,558
MARGOLIS, RENEE K.....	STUDIES ON GLYCOPROTEINS IN BRAIN.....	NEUA	5R01 NS09348-05	49,399
MARSH, WALTON H.....	PANCREAS REGENERATION AND DIFFERENTIATION.....	PTHA	2R01 AM05556-14	54,344
MC CAULEY, ROY B.....	IMMUNOLOGICAL STUDIES OF MULTIPLE FORMS OF MAO.....	PHRA	5R01 AM17468-02	26,385
MORSE, STEPHEN I.....	THE LYMPHOCYTE RESPONSE TO B. PERTUSSIS.....	ALY	5R01 AI09683-06	49,789
MOSESSON, MICHAEL W.....	THE STRUCTURE AND METABOLISM OF FIBRINOGEN.....	HEM	5R01 HL1409-08	98,848
MOSESSON, MICHAEL W.....	STUDIES ON MECHANISMS OF HEMOSTASIS.....	HEP	1P01 HL17419-01	232,192
NEIMARK, HAROLD C.....	CHARACTERIZATION OF MYCOPLASMAS AND BACTERIAL L FORMS.....	BM	5R01 AI06871-10	28,131
PARSA, ISMAIL.....	LIVER CELL DIFFERENTIATION AND CARCINOGENESIS.....	ET	5R01 CA13915-03	27,738
PARSA, ISMAIL.....	AN IN VITRO MODEL OF CARCINOGENESIS OF PANCREAS.....	ET	5R01 CA15233-02	37,683
PLIMPTON, CALVIN H.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00318-09	478,599
PORTEOUS, DONALD D.....	TUMOR CELL KILLING BY X-RAYS AND IMMUNITY.....	RAD	5R01 CA14117-03	35,495
QUIGLEY, JAMES P.....	EFFECT OF PROTEOLYSIS ON TRANSFORMED CELL MEMBRANES.....	MBY	1R01 CA16740-01	33,814
RIEDER, RONALD F.....	PROTEIN SYNTHESIS IN ERYTHROID PRECURSORS.....	HEM	5R01 AI06871-09	75,251
SAWYER, PHILIP N.....	EFFECTS OF ORAL CONTRACEPTIVES ON THE VASCULAR SYSTEM.....	CVB	5R01 HL15123-03	34,355
SCALIA, FRANK.....	ANATOMICAL CORRELATES OF SUBCORTICAL VISUAL FUNCTION.....	VISB	2R01 EY00909-04	27,380
SHERMAN, BURTON S.....	HYPERVITAMINOSIS A AND ALTERED DENTOFACIAL DEVELOPMENT.....	HED	5R01 DE02933-07	20,138
SILVERSTEIN, EMANUEL.....	ENZYME MECHANISM AND CONTROL.....	BIO	5R01 GM18453-02	49,485
SILVERSTEIN, EMANUEL.....	CHEMICAL DIAGNOSIS OF PULMONARY EMBOLISM.....	CVA	5R01 HL12599-06	52,121
STRACHER, ALFRED.....	STUDIES ON THE STRUCTURE OF MYOSIN.....	BBCB	1R01 GM19626-01	41,052
STRACHER, ALFRED.....	CHARACTERIZATION OF MYOSIN FROM BLOOD PLATELETS.....	BBCB	2R01 HL14020-04A1	56,042
STUCKEY, JACKSON H.....	SURGICAL APPROACH TO ACUTE CORONARY THROMBOSIS.....	SGYB	5R01 HL07028-13	100,425
SULTZER, BARNET.....	MITOGENIC ACTIVITY OF PPD-TUBERCULIN.....	BM	1R22 AI11807-01A1	45,582
VASSALLE, MARIO.....	DIGITALIS EFFECTS ON CARDIAC AUTOMATICITY MECHANISMS.....	PHRA	1R01 HL17451-01	25,991
WOODRUFF, JUDITH J.....	IMMUNOLOGY AND PHYSIOLOGY OF RECIRCULATING LYMPHOCYTES.....	IMB	5R01 AI10080-05	68,192
ORGANIZATION TOTAL	60 4,408,620			
<b>TEACHERS COLLEGE ZIP CODE 10027</b>				
BLACKMAN, LEONARD S.....	INPUT STRUCTURE & RETARDATE PERFORMANCE.....	HDMR	5P01 HD07329-03	246,023
ORGANIZATION TOTAL	1 246,023			
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 10304</b>				
GALLUZZI, NICHOLAS J.....	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE.....	TEC	3R01 HL08891-10S1	9,283
ORGANIZATION TOTAL	1 9,283			
<b>VETERANS ADMINISTRATION HOSPITAL (BROOKLYN) ZIP CODE 11209</b>				
MEYER, LEO M.....	SOUTHEASTERN CANCER STUDY GROUP.....	NSS	3R10 CA14299-02S1	22,701
ORGANIZATION TOTAL	1 22,701			
<b>YESHIVA UNIVERSITY ZIP CODE 10033</b>				
AISEN, PHILIP.....	IRON-BINDING PROTEINS AND CONTROL OF IRON METABOLISM.....	BBCB	2R01 AM15056-05	98,992
ANISFELD, MOSHE.....	PSYCHOLINGUISTIC STATUS OF SIGN LANGUAGE.....	CMS	1R01 NS12415-01	37,514
ARIAS, IRWIN M.....	THE MECHANISM OF BILE PIGMENT EXCRETION.....	MET	5R01 AM02019-18	120,717
ARIAS, IRWIN M.....	HEPATITIS CIRRHOSIS CENTER.....	SSS	5P17 AM17702-02	253,166
AUGUST, J THOMAS.....	STRUCTURE, FUNCTION AND BIOSYNTHESIS OF MACROMOLECULES.....	VR	3P01 GM11301-12S1	176,589
AUGUST, J THOMAS.....	GENETIC CONTROL OF CELL GROWTH AND DEVELOPMENT.....	SSS	2P01 GM11301-13	449,519
BAEZ, SILVIO.....	BIOGENIC-MECHANICAL FACTORS IN MICROCIRCULATION.....	CVB	5R01 HL06736-15	82,487
BARNETT, HENRY L.....	CYCLOPHOSPHAMIDE IN NEPHROTIC SYNDROME OF CHILDHOOD.....	GMA	5R01 AM14490-05	123,723



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
BARNETT, HENRY L.....	PEDIATRIC NEPHROLOGY: DRUG TRIALS AND CLINICAL SURVEYS.....	SSS	1R01 AM18234-01	357,242
BAUM, STEPHEN G.....	INTERACTION OF ONCOGENIC AND NONONCOGENIC VIRUSES.....	VR	2R01 CA10945-07	67,383
BENNETT, MICHAEL V.....	FUNCTION OF ELECTRICAL COUPLING IN EMBRYONIC TISSUES.....	CBY	2R01 HD04248-07	82,431
BLAUFEX, MORTON D.....	IMPROVED RADIOPHARMACEUTICALS FOR RENAL STUDIES.....	RAD	3R01 GM21217-01S1	5,471
BLOCH, ERIC.....	PRODUCTION AND FUNCTION OF ANDROGEN DURING DEVELOPMENT.....	REB	5R01 HD00420-15	113,068
BLOOM, BARRY R.....	THE BIOCHEMICAL BASIS OF DELAYED HYPERSENSITIVITY.....	IMB	5R01 AI07118-10	77,455
BLOOM, BARRY R.....	THE CELLULAR BASIS OF DELAYED-TYPE HYPERSENSITIVITY.....	IMB	5R01 AI09807-06	86,187
BLUMENFELD, OLGA O.....	PROTEINS OF THE CELL MEMBRANE.....	MBY	2R01 GM16389-07	59,813
BOOKCHIN, ROBERT M.....	STUDIES OF SICKLING MECHANISMS AND MINOR HEMOGLOBINS.....	HEM	5R01 AM12597-07	88,027
BORNSTEIN, MURRAY B.....	BIOLOGY OF MYELINATED CNS IN TISSUE CULTURE.....	NEUB	5R01 NS06735-09	102,744
BORNSTEIN, MURRAY B.....	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS.....	NSPA	1P01 NS11920-01	683,876
BOROWITZ, IRVING J.....	THE DESIGN OF ION SELECTIVE MOLECULES.....	MCHB	5R01 HL16746-02	46,176
BRICKER, NEAL S.....	UREMIA: PATHOGENESIS, EFFECTS, AND POSSIBLE PREVENTION.....	AMP	5P01 AM16281-03	498,629
BRICKER, NEAL S.....	UREMIA: PATHOGENESIS, EFFECTS, AND POSSIBLE PREVENTION.....	SSS	2P01 AM16281-04	543,367
BRIHEL, ROBIN W.....	STRUCTURE AND OXYGEN-COMBINING FUNCTION OF HEMOGLOBIN.....	HEM	5R01 HL07451-13	118,129
BUCKLEY, NANCY M.....	NEONATAL DEVELOPMENT OF ADRENERGIC RECEPTOR MECHANISMS.....	CVB	5R01 HL15444-03	40,848
COBLINER, W GODFREY.....	LIFE CHANGE EVENTS IN SEEKING ELECTIVE ABORTION.....	POP	3R01 HD07118-01S1	6,013
COHEN, MORTON I.....	NEURAL BASIS OF RESPIRATORY AND VASOMOTOR ACTIVITY.....	PHY	5R01 NS03970-13	112,818
CRAIN, STANLEY M.....	BIOPHYSICAL CYTOLOGY OF CULTURED NEURAL TISSUES.....	PHY	2R01 NS06545-10	100,440
DEMING, QUENTIN B.....	CARDIO-PULMONARY-RENAL PROGRAM.....	HEP	5P01 HL13979-05	377,701
DURAN-REYNALS, MARIA L.....	POSSIBLE NEOPLASTIC EFFECTS OF NON-NEOPLASTIC VIRUSES.....	PTHB	2R01 CA07160-11	100,517
EAGLE, HARRY.....	CANCER RESEARCH PROGRAM.....	CAP	5P01 CA13330-04	1,543,390
EDELMANN, CHESTER M. JR.....	KIDNEY FUNCTION IN INFANTS AND CHILDREN.....	AMP	5P01 AM18777-15	244,752
EDER, HOWARD A.....	METABOLISM OF PLASMA LIPOPROTEINS.....	MET	2R01 HL02965-19	163,779
EISENSTADT, MAURICE.....	DIELECTRIC AND NMR STUDIES OF PROTEINS.....	BBCB	2R01 GM18298-04	85,955
EISENSTADT, MAURICE.....	STUDY OF MEMBRANE PERMEABILITY BY NMR RELAXATION.....	BBCB	1R01 HL17571-01	95,085
FLEISCHER, NORMAN S.....	STUDIES OF PITUITARY HORMONE SECRETION AND SYNTHESIS.....	END	5R01 AM17326-03	47,332
FRIEDMAN, EPHRAIM.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05397-14	255,345
GARTNER, LAWRENCE M.....	PATHOGENESIS OF NEONATAL PHYSIOLOGIC JAUNDICE.....	HED	5R01 HD03783-07	139,377
GASKIN, FELICIA.....	BIOPHYSICAL STUDIES ON NEUROTUBULES AND TWISTED TUBULES.....	PTHA	1R01 NS12418-01	80,369
GHOSSIN, NEMATALLAH A.....	IMMUNOCOMPETENCE IN RADIATION THERAPY PATIENTS.....	RAD	5R01 CA13806-03	35,518
GHOSSIN, NEMATALLAH A.....	HUMAN TUMOR CELL KINETICS: EFFECT OF TREATMENT.....	RAD	5R01 CA14770-02	45,934
GHOSSIN, NEMATALLAH A.....	COLORRECTAL CANCER TREATMENT-POSTOPERATIVE RADIOTHERAPY.....	RAD	1R01 CA17251-01	62,355
GLUECKSOHN-WAELSCH, S.....	MECHANISMS OF GENETIC CONTROL OF ABNORMAL DEVELOPMENT.....	GEN	5R01 HD00193-20	83,438
GOLDFISCHER, SIDNEY L.....	STORAGE DISEASE—INTRACELLULAR TRANSPORT AND DIGESTION.....	PTHA	5R01 NS06856-09	83,932
GROLLMAN, ARTHUR P.....	BIOTECHNOLOGY RESOURCE FOR NMR STUDIES OF BIOMOLECULES.....	BBCB	5P07 RR00636-03	60,929
HAYS, RICHARD M.....	CONTROL OF WATER AND SOLUTE MOVEMENT ACROSS THE CELL.....	PHY	5R01 AM03858-15	79,337
HENRY, SUSAN A.....	GENETICS AND DEVELOPMENT OF YEAST MEMBRANE MUTANTS.....	GEN	5R01 GM19629-03	45,606
HIGHSTEIN, STEPHEN M.....	SYNAPTIC LINKAGE OF THE RETICULO-OCULOMOTOR CIRCUITS.....	NEUA	1R01 EY01670-01	14,900
HOBERMAN, HENRY D.....	THE COUPLING OF COENZYME-LINKED OXIDO-REDUCTIONS.....	BIO	3R01 CA03641-18S1	3,633
HORWITZ, MARSHALL S.....	ASSEMBLY OF ONCOGENIC AND NONONCOGENIC ADENOVIRUSES.....	VR	5R01 CA11512-06	57,619
HORWITZ, SUSAN B.....	BIOCHEMICAL PHARMACOLOGY OF ANTITUMOR DRUGS.....	ET	1R01 CA15714-01	69,625
HURWITZ, JERARD.....	STUDIES OF MACROMOLECULAR ALTERATION AND SYNTHESIS.....	PC	5R01 GM13344-10	165,394
IQBAL, KHALID.....	MOLECULAR PATHOLOGY OF NEUROFILAMENTS AND NEUROTUBULES.....	PTHA	2R01 NS08180-07	166,434
JAFFE, ERNST R.....	RESEARCH AND HEREDITY CLINIC.....	AMP	3P02 AM13430-05S1	10,297
JAFFE, ERNST R.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00050-14	88,318
KARMEN, ARTHUR.....	MICROANALYSIS USING GAS CHROMATOGRAPHY.....	MCHB	5R01 GM19478-04	77,595
KATZMAN, ROBERT.....	NEUROLOGICAL RESEARCH PROGRAM.....	NSPA	5P01 NS03356-15	735,124
KATZMAN, ROBERT.....	BIOGENIC AMINES AND NEUROLOGICAL DISORDERS.....	NSPB	5P01 NS09649-05	301,677
KEISER, HAROLD D.....	IMMUNOCHEMISTRY OF CARTILAGE PROTEOGLYCAN.....	SSS	2R01 AM07343-12	128,133
KERN, HAROLD L.....	RELATION OF TRANSPORT TO METABOLISM OF GLUTATHIONE.....	VISA	5R01 EY00131-05	28,864
KERN, HAROLD L.....	TRANSPORT PROCESSES IN OCULAR TISSUES.....	VISA	5R01 EY00268-12	85,423
KIKKAWA, YUTAKA.....	ULTRASTRUCTURAL STUDIES OF THE LUNG.....	PTHB	3R01 HD02459-08S1	12,708
KIKKAWA, YUTAKA.....	ALVEOLAR TYPE II EPITHELIAL CELLS IN HEALTH & DISEASE.....	PTHA	2R01 HD02459-09	142,769
KLINGER, HAROLD P.....	GENE REGULATION & INTERACTION-NORMAL & MALIGNANT CELLS.....	PTHB	1R01 CA16720-01	94,313
KOWALSKY, ARTHUR.....	CONTROL MECHANISMS OF ION AND ELECTRON TRANSFER.....	BBCB	5R01 AM15251-05	64,325
LAUSON, HENRY D.....	METABOLISM OF ANTIIDIURETIC HORMONE.....	GBM	5R01 AM01588-19	55,084
LEDEEN, ROBERT W.....	STUDY OF NERVOUS SYSTEM GANGLIOSIDES.....	PC	5R01 NS04834-12	109,205
LEV, MEIR.....	BIOSYNTHESIS OF CERAMIDE PHOSPHORYLETHANOLAMINE.....	MBC	1R01 GM21278-01A1	22,949
LEVENSON, STANLEY M.....	ANEMIA, PANCREATIC ATROPHY, DEFINED DIETS.....	GMA	3R01 AM15144-03S1	29,410

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
LEVENSON, STANLEY M.....	BURN DEBRIDEMENT—CHEMICAL, ENZYMIC, AND BY CO <sub>2</sub> LASER ....	SGYA	2R01 GM19328-04	92,223
LEVINE, WALTER G.....	ROLE OF METABOLISM IN BILIARY EXCRETION OF DRUGS .....	ET	3R01 CA14231-03S2	1,444
LEVINE, WALTER G.....	ROLE OF METABOLISM IN BILIARY EXCRETION OF DRUGS .....	ET	2R01 CA14231-04	75,424
LISTOWSKY, IRVING.....	CONFORMATION OF FERRITIN AND APOFERRITIN IN SOLUTION .....	BBCA	3R01 HL15111-06S1	14,745
LISTOWSKY, IRVING.....	CONFORMATION OF FERRITIN AND ITS ROLE IN IRON METABOLISM ....	BBCA	2R01 HL15111-07	69,635
LOWY, BERTRAM A.....	ROLE OF LIVER IN ERYTHROCYTE NUCLEOTIDE SYNTHESIS .....	HEM	5R01 AM17622-02	89,059
MAIO, JOSEPH J.....	DNA TRANSCRIPTION CONTROL IN NORMAL AND CANCER CELLS .....	CBY	1R01 CA16790-01	79,724
MAITRA, UMASAS.....	ENZYMATIC SYNTHESIS OF BIOLOGICALLY ACTIVE MACROMOLECULE ..	MBY	3R01 GM15399-07S1	6,325
MAKMAN, MAYNARD H.....	ROLE OF ADENYLATE CYCLASE IN MALIGNANT CELLS .....	BIO	5R01 CA13176-04	75,807
MAKMAN, MAYNARD H.....	MUCOPOLYSACCHARIDES OF CONNECTIVE AND OTHER TISSUES .....	VISA	5R01 EY00873-02	37,578
MANIS, JAMES.....	IRON ABSORPTION AND METABOLISM .....	GMA	3R01 AM18247-01S1	8,699
MARCUS, DONALD M.....	ANTIBODY INTERACTIONS WITH HAPTENS AND GLYCOLIPIDS .....	ALY	2R01 AI05336-12	86,025
MARMUR, JULIUS.....	THE ROLE OF YEAST MITOCHONDRIA AND CANCER .....	BIO	5R01 CA12410-05	71,681
MARMUR, JULIUS.....	PROPERTIES OF TRANSFORMING AND INFECTIOUS DNAS .....	PC	5R01 GM11946-13	132,501
MC CONN, RITA.....	BLOOD STORAGE: THE PRODUCTION OF CARDIOTOXIC MATERIAL .....	SGYB	1R01 HL17479-01	94,372
MEYER, KARL.....	PC 9R01 AG00247-09	PC	9R01 AG00247-09	118,211
MUGGIA, FRANCO M.....	EASTERN COOPERATIVE ONCOLOGY GROUP .....	CCI	1R10 CA14958-01A1	50,461
NAGEL, RONALD L.....	STRUCTURE AND FUNCTION OF HEMOGLOBINS A AND S .....	BBCA	5R01 AM15053-05	91,351
NAGLER, ARNOLD L.....	STUDY OF ROLE OF CARDIOTOXIN IN SHOCK .....	SGYB	5R01 GM17423-05	90,131
NATHANSON, STANLEY G.....	CHEMICAL STUDIES ON HISTOCOMPATIBILITY ANTIGENS .....	ALY	5R01 AI07289-10	114,074
NITOWSKY, HAROLD M.....	SUPPORT FOR GENETICS RESEARCH CENTER .....	SSS	3P01 GM19100-03S1	52,050
NORTON, WILLIAM T.....	THE CHEMISTRY OF CELLS AND CELL PORTIONS FROM THE CNS .....	NEUB	5R01 NS02476-16	136,044
NOVIKOFF, ALEX B.....	BIOCHEMICAL CYTOLOGY OF NORMAL AND MALIGNANT TISSUES .....	SSS	2R01 CA06576-13	338,124
PAPPAS, GEORGE D.....	FINE STRUCTURE AND MODIFICATION OF SYNAPSES .....	NEUB	5R01 NS11431-02	141,333
PARK, SUNG S.....	COMPREHENSIVE STUDIES OF MUCOCILIARY TRANSPORT .....	CVA	1R01 HL18308-01	115,043
PATT, CHARLES.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	NSS	5S05 RR07124-07	27,350
PEISACH, JACK.....	HEME PROTEIN STRUCTURE AND FUNCTION .....	BBCB	5R01 HL13399-13	88,928
PESETSKY, IRWIN.....	THE INFLUENCE OF THYROXIN UPON NEURONS .....	END	5R01 NS04555-12	58,085
PETERSON, EDITH R.....	NEUROMUSCULAR RELATIONS IN ORGANOTYPIC CULTURES .....	NEUB	5R01 NS08770-05	56,794
POLLACK, SIMEON.....	STUDIES ON IRON ABSORPTION .....	GMA	3R01 AM11524-06S1	38,579
PURPURA, DOMINICK P.....	SUPPORT FOR MENTAL RETARDATION RESEARCH CENTER .....	HDMR	5P01 HD01799-10	971,533
PURPURA, DOMINICK P.....	NEURONAL DEVELOPMENT, INTERACTION AND ORGANIZATION .....	NSPB	5P01 NS07512-07	400,418
RAINE, CEDRIC S.....	EM CYTOPATHOLOGY OF ORGANIZED CNS & PNS CULTURES .....	PTHA	5R01 NS08952-07	69,595
RIEBER, EGMOND E.....	OCCURRENCE AND RESOLUTION OF SICKLE CELL CRISIS .....	HEM	5R01 HL14803-03	57,053
ROHEIM, PAUL S.....	HYPERLIPOPROTEINEMIA .....	MET	2R01 HL13394-06	61,130
ROSE, SUSAN A.....	OVERCOMING THE ADVERSE EFFECTS OF PREMATURITY .....	DBR	5R01 HD08063-02	75,479
ROSEN, ORA M.....	CYCLOC NUCLEOTIDE SYNTHESIS, DEGRADATION & FUNCTION .....	PC	3R01 AM09038-10S1	1,242
ROSEN, ORA M.....	CYCLOC NUCLEOTIDE SYNTHESIS, DEGRADATION & FUNCTION .....	PC	5R01 AM09038-11	67,419
RUBEN, ROBERT J.....	EMBRYOLOGY OF THE INNER EAR .....	CMS	5R01 NS08365-08	119,304
RUBIN, MERYL S.....	REGULATION OF MEMBRANE PERMEABILITY: MOLECULAR BASIS .....	GMB	1R01 AM18128-01	40,177
SCARPELLI, EMILE M.....	STUDY OF ALVEOLAR BIOLOGY .....	HBP	5P01 HL16137-02	528,638
SCHARFF, MATTHEW D.....	SYNTHESIS AND ASSEMBLY OF IMMUNOGLOBULINS .....	ALY	5R01 AI05231-11	80,869
SCHARFF, MATTHEW D.....	STUDY OF CELL BIOLOGY OF LYMPHOID CELLS .....	SSS	5P01 AI10702-04	532,706
SCHARRER, BERTA V.....	NEUROENDOCRINE RELATIONSHIPS IN INSECTS .....	END	5R01 AM03984-18	32,337
SCHARRER, BERTA V.....	BIBLIOGRAPHIA NEUROENDOCRINOLOGICA .....	BCM	1R01 LM02327-01	14,814
SCHENBERG, I HERBERT.....	HEREDITARY DEFECTS IN PROTEIN SYNTHESIS .....	MET	5R01 AM01059-20	254,606
SCHILDKRAUT, CARL L.....	DNA OF NORMAL AND MALIGNANT CELLS .....	MBY	1R01 GM22332-01	105,380
SCHULMAN, LA DONNE H.....	PROTEIN-NUCLEIC ACID INTERACTIONS .....	PC	5R01 GM16995-06	58,617
SEIFE, BURTON.....	ISOTOPIC INERT INDICATOR FOR INTESTINAL ABSORPTION .....	RAD	5R01 AM17610-02	39,262
SEIFTER, SAM.....	BIOCHEMICAL AND IMMUNOLOGICAL STUDIES ON ELASTIN .....	PC	5R01 AM11913-08	61,235
SEIFTER, SAM.....	STRUCTURE AND FUNCTION OF AGING HUMAN FIBROBLASTS .....	HDAG	5P01 HD07173-03	326,295
SHAFRITZ, DAVID A.....	PROTEIN SYNTHESIS IN NORMAL AND REGENERATING LIVER .....	PTHB	5R01 AM17609-02	45,218
SHIN, SEUNG-IL.....	MOLECULAR GENETICS OF SOMATIC CELL MUTATION .....	GEN	3R01 GM21014-01S1	8,214
SHULMAN, HERBERT J.....	SYNTHESIS OF CARTILAGE PROTEOGLYCAN .....	MBY	3R01 AM15287-03S1	564
SHULMAN, KENNETH.....	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE .....	SSS	1R01 NS12500-01	25,199
SKOULTCHI, ARTHUR I.....	CONTROL OF DIFFERENTIATION OF ERYTHROLEUKEMIC CELLS .....	CBY	5R01 CA16368-02	41,606
SOBEL, EDNA H.....	EFFECT OF OVERCROWDING AND MALNUTRITION ON GROWTH .....	NTN	2R01 HD05668-04	105,987
SOEIRO, RUY.....	PROCESSING OF RNA IN HUMAN CANCER HELA CELLS .....	MBY	2R01 CA10993-07	71,913
SOFFER, RICHARD L.....	PROTEIN MODIFICATION BY MAMMALIAN ENZYME SYSTEMS .....	PC	5R01 AM12395-09	40,851
SOFFER, RICHARD L.....	PULMONARY ANGIOTENSIN-CONVERTING ENZYME .....	PC	1R01 HL17741-01	103,044

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
Sonnenblick, Edmund H.....	CARDIOVASCULAR RESEARCH PROGRAM.....	CVB	7R01 HL18668-01	320,634
Spitzer, Adrian.....	MICROPUNCTURE STUDY OF THE NEONATAL KIDNEY.....	PHY	2R01 AM12904-07	59,044
Spitzer, Adrian.....	EFFECT OF LEAD POISONING ON KIDNEY FUNCTION.....	PTHA	5R01 ES00690-02	27,025
Steeves, Richard A.....	HELPER FACTORS FOR FRIEND SPLEEN FOCUS-FORMING VIRUS.....	VR	2R01 CA14529-03	32,652
Streckler, Harold J.....	PROTEIN TURNOVER IN NORMAL AND TRANSFORMED ANIMAL CELLS.....	BIO	5R01 CA12712-04	48,757
Suzuki, Kinuko.....	EXPERIMENTAL PATHOLOGY OF DEVELOPING NERVOUS SYSTEM.....	NEUA	5R01 NS10803-04	61,444
Suzuki, Kunihiko.....	CHEMICAL PATHOLOGY OF NEUROLOGICAL DISORDERS.....	NEUA	2R01 NS10885-03	142,786
Terry, Robert D.....	CYTOLOGIC STUDIES IN DISEASES OF THE NERVOUS SYSTEM.....	PTHA	2R01 NS02255-17	175,160
Volk, Herbert.....	COOPERATIVE STUDY OF CANCER OF THE BREAST.....	CCI	2R10 CA03359-18	101,143
Volk, Herbert.....	CLINICAL CANCER EDUCATION PROGRAM (MEDICAL).....	CEC	1R25 CA18009-01	124,400
Wittenberg, Jonathan B.....	HEMEPROTEIN INTERACTIONS; MODELS OF SICKLE HEMOGLOBIN.....	BBCB	5R01 HL15461-03	54,482
Wittner, Murray.....	TRYPANOSOMA CRUZI; MECHANISMS OF IMMUNE RESISTANCE.....	TMP	1R22 AI12770-01	52,750
Wolinsky, Harvey.....	STRUCTURE-FUNCTION RELATIONS OF BLOOD VESSELS.....	CVB	5R01 HL12766-06	55,759
Wu, Cheng-Wen.....	MECHANISM AND REGULATION OF GENE TRANSCRIPTION.....	BBCA	2R01 GM19062-04	106,586
ORGANIZATION TOTAL	142	18,782,401		
<b>NORTHPORT</b>				
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 11768</b>				
Zucker, Stanley.....	PATHOGENESIS OF ANEMIA IN MALIGNANCY.....	PTHB	5R01 CA15629-02	26,286
ORGANIZATION TOTAL	1	26,286		
<b>ONEONTA</b>				
<b>STATE UNIVERSITY OF NEW YORK—COLLEGE AT ONEONTA ZIP CODE 13820</b>				
Chiang, Joseph F.....	MOLECULAR STRUCTURE OF BIOLOGICAL INTEREST COMPOUNDS.....	BBCA	5R01 CA11537-05	18,457
ORGANIZATION TOTAL	1	18,457		
<b>ORANGEBURG</b>				
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE—ROCKLAND PSYCHIATRIC CENTER ZIP CODE 10962</b>				
Kline, Nathan S.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05651-09	57,534
ORGANIZATION TOTAL	1	57,534		
<b>OSWEGO</b>				
<b>STATE UNIVERSITY OF NEW YORK—COLLEGE AT OSWEGO ZIP CODE 13126</b>				
Nappi, Anthony J.....	INSECT IMMUNITY, A MODEL SYSTEM FOR CELLULAR ACTIVITY.....	TMP	5R01 AI12057-02	7,597
ORGANIZATION TOTAL	1	7,597		
<b>PLATTSBURGH</b>				
<b>STATE UNIVERSITY OF NEW YORK—COLLEGE AT PLATTSBURGH ZIP CODE 12901</b>				
Ellsworth, Robert R.....	STUDIES ON CHLOROPHYLLASE.....	BIO	1R01 GM20328-01	26,510
Moore, Richard D.....	MECHANISM OF INSULIN ACTION UPON SODIUM PUMP.....	PHY	1R01 AM17531-01A1	31,865
ORGANIZATION TOTAL	2	58,375		
<b>POTSDAM</b>				
<b>CLARKSON COLLEGE OF TECHNOLOGY ZIP CODE 13676</b>				
Jellinek, Hans H.....	PERMEATION MECHANISM OF GASES FROM THE LUNG.....	CVA	5R01 HL15726-02	40,446
Popp, Frank D.....	ALKALOID ANALOGS AS POTENTIAL ANTINEOPLASTIC AGENTS.....	MCHA	5R01 CA10965-06	42,139
Vaska, Lauri.....	OXYGEN-CARRYING METAL COMPLEXES.....	MCHB	5R01 HL09678-10	67,080
ORGANIZATION TOTAL	3	149,665		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
<b>ROCHESTER</b>				
<b>EASTMAN DENTAL CENTER</b>	<b>ZIP CODE 14605</b>			
CURZON, MARTIN E.....	EFFECT OF STRONTIUM ON DENTAL CARIES.....	DEN	1R01 DE04330-01	70,890
GILMOUR, MARION N.....	ACID PRODUCTION AND THE DENTAL PLAQUE.....	DEN	5R01 DE02452-09	76,966
GILMOUR, MARION N.....	THE MICROBIAL COMPOSITION OF DENTAL PLAQUE.....	DEN	5R01 DE03378-05	70,555
HANDELMAN, STANLEY L.....	EFFECT OF FISSURE SEALANT ON PROGRESS OF DENTAL CARIES.....	DEN	5R01 DE03713-02	44,716
MC HUGH, WILLIAM D.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05548-13	48,396
ZANDER, HELMUT A.....	BASIC STUDIES BEARING ON PERIODONTAL DISEASE.....	SSS	5P01 DE01648-13	179,613
ORGANIZATION TOTAL	6 491,136			
<b>ROCHESTER INSTITUTE OF TECHNOLOGY</b>	<b>ZIP CODE 14623</b>			
JELINEK, WARREN R.....	IN VITRO SYNTHESIS OF CELL AND VIRAL MESSENGER RNA.....	SSS	1R01 AI12564-01	64,627
ORGANIZATION TOTAL	1 64,627			
<b>UNIVERSITY OF ROCHESTER</b>	<b>ZIP CODE 14627</b>			
ABRAHAM, GEORGE N.....	STRUCTURAL STUDIES OF HUMAN MONOCLONAL AUTOANTIBODIES.....	ALY	5R01 AI11550-03	28,579
ALLEN, PETER Z.....	IMMUNOCHEMISTRY OF N. GONORRHOEA ALPHA ANTIGENS.....	ALY	1R01 AI12356-01	37,423
ARMSTRONG, CLAY M.....	PERMEABILITY MECHANISMS IN EXCITABLE MEMBRANES.....	PHY	5R01 NS08951-07	21,367
AU, WILLIAM Y.....	THIAZIDE EFFECTS ON CALCIUM METABOLISM.....	GMB	5R01 AM16858-03	51,395
AUER, HENRY E.....	CYTOCHROME OXIDASE-CYTOCHROME C INTERACTIONS.....	BBCA	1R01 GM21687-01	36,823
BAKEMEIER, RICHARD F.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17988-01	163,143
BALDUZZI, PIERO C.....	GENETIC STUDIES OF RNA TUMOR VIRUSES.....	VR	5R01 CA15716-02	42,822
BALE, WILLIAM F.....	PREPARATION OF 125I-ANTIBODY LOCALIZING IN TUMORS.....	RAD	1R01 CA16749-01	60,731
BANERJEE, SHAILESH P.....	CARDIAC GLYCOSIDES AND DIURETICS: ROLE OF NAQ PUMP.....	GMB	1R01 HL18185-01	60,198
BAUM, JOHN.....	IMMUNOLOGICAL STUDIES IN AN AGING POPULATION.....	IMB	5R01 HD07786-02	47,692
BENNETT, JOHN M.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	2R10 CA11083-08	242,921
BERNHARD, WILLIAM A.....	THE EFFECTS OF IONIZING RADIATION ON NUCLEIC ACIDS.....	RAD	1R01 GM20688-01	49,927
BOSMANN, HAROLD B.....	MEMBRANE BIOCHEMISTRY OF NEOPLASTIC CELLS.....	CBY	5R01 CA13220-04	53,033
BOSMANN, HAROLD B.....	ASPECTS OF DENERVATED MUSCLE.....	PC	1R01 NS12461-01	40,404
BROWN, JOHN L.....	VISION: SPATIAL, TEMPORAL AND ADAPTING EFFECTS.....	EXP	5R01 EY00680-04	58,292
BROWN, JOHN L.....	VISUAL SCIENCE RESEARCH CENTER SUPPORT.....	VSN	5P01 EY01319-02	48,124
CAFFERATA, ROBERT L.....	THE EXPRESSION OF NEURONAL SPECIFICITY.....	SSS	1R01 EY01529-01	59,364
CARSTENSEN, EDWIN L.....	INTERACTION OF ULTRASOUND WITH BIOLOGICAL MATERIAL.....	RAD	2R01 GM09933-13	83,364
CHAPMAN, ROBERT M.....	VISUAL MECHANISMS FOR WAVELENGTH DISCRIMINATION.....	NP	1R01 EY01593-01	46,335
CHEY, WILLIAM Y.....	RADIOIMMUNOASSAY OF SECRETIN AND GASTRIN.....	GMA	5R01 AM16939-02	38,185
CLARKSON, THOMAS W.....	METALLIC MERCURY VAPOR AS AN ENVIRONMENTAL HAZARD.....	NSS	5P01 ES01059-02	183,052
CLARKSON, THOMAS W.....	TRACE CONTAMINANTS: ENVIRONMENTAL HEALTH HAZARDS TO MAN.....	SSS	1P01 ES01247-01	562,043
CLARKSON, THOMAS W.....	CENTER FOR TOXICOLOGIC RESEARCH AND TRAINING.....	PTR	5P11 GM15190-09	670,303
COHEN, GERALD H.....	PUPIL RESPONSE AS AN INDEX FOR CHROMATIC MECHANISMS.....	VISB	1R01 EY01234-01A1	42,757
COHEN, JULIUS J.....	RENAL SUBSTRATE UTILIZATION IN RELATION TO FUNCTION.....	PHY	5R01 AM03602-16	72,707
COHEN, NICHOLAS.....	COMPARATIVE AND DEVELOPMENTAL IMMUNOLOGY.....	IMB	5R01 HD07901-07	42,476
COLEMAN, JAMES R.....	ELECTRON PROBE INVESTIGATION OF CELL CALCIUM.....	MBY	2R01 AM14272-06	71,905
COLEMAN, PAUL D.....	GENETIC AND POST-NATAL EFFECTS ON BRAIN DEVELOPMENT.....	COM	3R01 NS07870-07S1	10,676
COLEMAN, PAUL D.....	GENETIC AND POSTNATAL EFFECTS ON BRAIN DEVELOPMENT.....	COM	2R01 NS07870-08	90,108
COLGAN, FRANK J.....	LUNG VOLUME AND BREATHING MECHANICS DURING ANESTHESIA.....	SGYB	5R01 HL09609-10	20,843
COOPER, ROBERT A, JR.....	SUPPORT FOR CANCER RESEARCH CENTER.....	CAP	3P02 CA11198-06S1	36,561
COOPER, ROBERT A, JR.....	SUPPORT FOR CANCER RESEARCH CENTER.....	CAP	2P01 CA11198-07	1,290,806
DAHNEKE, BARTON E.....	SIZE/CHEMICAL MEASUREMENTS OF ATMOSPHERIC PARTICLES.....	SSS	1R01 ES01107-01	87,251
DOLAN, THOMAS E.....	COOPERATIVE STUDY OF NEW GYNECOLOGIC CANCER PATIENTS.....	CCI	5R10 CA12482-05	29,525
DOTY, ROBERT W.....	LEARNING, PERCEPTION, AND NEURAL INTEGRATION.....	NEUA	3R01 NS03606-13S1	1,800
DOTY, ROBERT W.....	LEARNING, PERCEPTION, AND NEURAL INTEGRATION.....	NEUA	5R01 NS03606-14	95,327
EBERLE, HELEN I.....	CONTROL OF DNA REPLICATION.....	GEN	5R01 GM19189-03	34,682
EMERSON, ROBERT C.....	IMAGE MOVEMENT: NEURAL PROCESSING MECHANISMS.....	VISB	1R01 EY01440-01	46,757
FEIBEL, JOHN H.....	STROKE ACUTE CARE RESEARCH UNIT.....	NSPA	5P17 NS11110-03	76,466
FISCHER, HARRY W.....	RADIOGRAPHIC VISUALIZATION OF LIVER AND SPLEEN.....	RAD	5R01 GM20885-02	37,204
FISCHER, HARRY W.....	IMPROVED DETECTION AND VISUALIZATION OF COLON LESIONS.....	RAD	3R01 GM21296-01S1	1,188
FOELSCH, ECKARD O.....	METABOLISM AND UPTAKE OF REDUCED FOLIC ACID ANTAGONISTS.....	ET	5R01 CA16269-02	45,421
FORBES, GILBERT B.....	TOTAL BODY POTASSIUM IN DIABETES MELLITUS.....	AFY	3R01 AM14600-02S1	16,468

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
FORBES, GILBERT B.	TOTAL BODY POTASSIUM IN DIABETES MELLITUS	AFY	5R01 AM14600-03	50,912
FORBES, GILBERT B.	HORMONE LEVELS AND BODY COMPOSITION IN ADOLESCENCE	END	5R01 HD06809-03	38,819
FRANCE, ROBERT R.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07069-10	39,865
GIBBS, FINLEY P.	NEURAL PATHWAYS INVOLVED WITH ACTH SECRETION	END	5R01 AM15776-02	18,102
GOH, KONG-OO	CELL-MEDIATED IMMUNOLOGICAL DEFECTS AFTER IRRADIATION	RAD	5R01 CA14876-03	51,771
GOROVSKY, MARTIN A.	REPEATED GENES: AMPLIFICATION, EVOLUTION AND FUNCTION	GEN	1R01 GM21793-01	101,549
GRAMIAK, RAYMOND	NEW CONCEPTS IN CARDIAC ULTRASOUND TECHNOLOGY	RAD	5R01 HL15016-03	85,757
GROSS, PAUL R.	HISTONE MRNA AND HISTONE SYNTHESIS IN DEVELOPMENT	CBY	5R01 HD08652-02	84,292
HARE, JOHN D.	CELL PROLIFERATION AND VIRUS INFECTION	VR	5R01 CA07239-12	60,501
HATTMAN, STANLEY M.	CONTROL MECHANISMS IN PHAGE-HOST CELL INTERACTIONS	VR	5R01 AI08738-07	37,855
HATTMAN, STANLEY M.	DNA MODIFICATION/RESTRICTION IN PRO- AND EUKARYOTES	PC	2R01 AI10864-04	43,265
HILF, RUSSELL	BIOCHEMICAL BASIS OF HORMONE RESPONSIVENESS IN BREAST	ET	5R01 CA12836-04	78,137
HILF, RUSSELL	MECHANISMS OF ACTION OF INSULIN ON MAMMARY TUMORS	END	1R01 CA16660-01	71,520
HINKLE, DAVID C.	BACTERIOPHAGE T7 DNA REPLICATION IN VITRO	SSS	1R01 GM21782-01	57,696
HOMIG, CARL R.	STUDY OF CONTROL OF CARDIAC AND VASCULAR SMOOTH MUSCLES	CVB	5R01 HL03290-18	64,085
HOROWICZ, PAUL	STUDY OF CONTROL OF ACTIVITY IN EXCITABLE TISSUES	NSPA	5P01 NS10981-03	212,517
ISON, JAMES R.	FACILITATION AND INHIBITION OF REFLEX BEHAVIOR	EXP	1R01 NS12443-01	59,035
IZZO, JOSEPH L.	EXPERIMENTAL STUDIES—INSULIN, GLUCAGON, PROINSULIN	MET	5R01 AM03556-15	74,107
KAPPLER, JOHN W.	REGULATORY MECHANISMS IN THE IMMUNE RESPONSE	IMB	5R01 AI11558-02	31,241
KELLOGG, CAROL	DEVELOPMENT OF BRAIN MONOAMINES AND SEIZURES	NEUA	5R01 NS10777-03	45,118
KENDE, ANDREW S.	PHOTOCHEMICALLY DIRECTED SYNTHESIS OF ANTINEOPLASTICS	MCHA	5R01 CA11326-07	64,367
KIMBERG, DANIEL V.	EFFECT OF HORMONES ON CALCIUM ABSORPTION	GMB	7R01 AM18912-01	119,140
KLEMPERER, MARTIN R.	COOPERATIVE STUDY OF CHILDREN'S CANCER	CCI	3R10 CA11174-06S1	19,694
KNIGGE, KARL M.	BASIC AND CLINICAL NEUROENDOCRINOLOGY	NSPB	5P01 NS11642-02	296,306
KRAUS, ALAN L.	STUDIES OF LABORATORY ANIMAL DISEASES	AR	5P06 RR00658-04	67,075
KRUGH, THOMAS R.	MOLECULAR BASIS OF THE ACTINOMYCIN-DNA INTERACTION	BBCA	5R01 CA14103-03	43,888
KRUGH, THOMAS R.	PHYSICO-CHEMICAL STUDIES OF INTERCALATING DRUGS	BBCA	1R01 CA17865-01	81,430
LA CELLE, PAUL L.	DETERMINANTS OF RBC DEFORMABILITY AND CAPILLARY FLOW	HEM	5R01 HL16421-05	63,753
LAPHAM, LOWELL W.	GROWTH AND DEVELOPMENT OF HUMAN FETAL BRAIN IN VITRO	HED	5R01 HD07078-03	57,606
LAWRENCE, CHRISTOPHER W.	RADIATION MUTAGENESIS AND REPAIR IN SACCHAROMYCES	RAD	1R01 GM21858-01	77,140
LEDDY, JOHN P.	HOST DEFENSE, INFLAMMATION AND CELLULAR INJURY	SSS	1R01 AI12568-01	113,582
LEDDY, JOHN P.	MEMBRANE ANTIGENS AND AUTOANTIBODIES	IMB	5R01 AM09810-10	83,534
LICHTMAN, MARSHALL A.	SUBSTRATE AND CATION TRANSPORT IN HUMAN LEUKOCYTES	ET	2R01 CA12790-04	99,608
LOGAN, WENDE W.	LIQUID CHOLESTEROL ESTER THERMOGRAPHY OF THE BREAST	RAD	1R01 CA17335-01	21,920
MANILOFF, JACK	CELLULAR AND MOLECULAR BIOLOGY OF MYCOPLASMAS	BM	2R01 AI07939-08A1	46,165
MANILOFF, JACK	BIOLOGY OF MYCOPLASMA VIRUSES	VR	2R01 AI10605-04	57,789
MARINETTI, GUIDO V.	BIOCHEMISTRY AND FUNCTION OF LIPIDS AND CELL MEMBRANES	MBY	5R01 HL02063-20	70,130
MARQUIS, ROBERT E.	PHYSIOLOGY OF DENTAL PLAQUE BACTERIA	DEN	1R01 DE04132-01	46,739
MENGUY, RENE	INFLUENCE OF STRESS ON GASTRIC MUCOSAL ENERGY METABOLISM	SGBY	5R01 AM17092-02	31,277
MENGUY, RENE	GASTRIC MUCOSAL ENERGY METABOLISM IN STRESS ULCERATION	SGBY	1R01 AM17955-01	48,411
MERIN, ROBERT G.	EFFECT OF INHALATION ANESTHESIA ON MYOCARDIAL METABOLISM	SGYA	3R01 HL13257-05S1	3,168
MERIN, ROBERT G.	EFFECT OF INHALATION ANESTHESIA ON MYOCARDIAL METABOLISM	SGYA	5R01 HL13257-06	58,134
MILLER, LEON L.	NET SYNTHESIS OF PLASMA PROTEINS BY PERFUSED LIVER	MET	5R01 AM11029-09	39,369
MILLER, MORTON W.	BIOLOGICAL RESPONSES TO BIOMEDICAL ULTRASOUND	RAD	1R01 GM22680-01	53,740
MILLER, R PAUL	EFFECT OF SOMATOMEDIN ON CHONDROCYTES IN TISSUE CULTURE	END	5R01 AM16936-02	35,530
MOSS, ARTHUR J.	FOLLOW-UP STUDY OF ACUTE CORONARY HEART ATTACKS	EDC	5R01 HL15790-03	127,778
NAHAS, ALY	EFFECT OF ASPARAGINASE ON SENSITIVITY TO OTHER DRUGS	ET	5R01 CA13712-03	45,006
NOTIDES, ANGELO C.	THE HUMAN UTERINE ESTROGEN-BINDING PROTEINS	END	5R01 HD06707-03	43,111
OLMSTED, JOANNA B.	CELLULAR CONTROL OF NEURONAL MICROTUBULE ASSEMBLY	MBY	1R01 GM22141-01	64,009
ORBISON, J LOWELL	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	2M01 RR00044-15	478,786
ORBISON, J LOWELL	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05403-14	255,345
PECK, WILLIAM A	HORMONAL REGULATION OF BONE CELL METABOLISM	GMB	5R01 AM09865-10	63,371
PERACCHIA, CAMILLO	STRUCTURE FUNCTION IN LOW RESISTANCE JUNCTIONS	MBY	5R01 GM20113-02	35,879
POLAND, ALAN P.	STUDY OF TOXICITY OF CHLORINATED DIBENZO-P-DIOXINS	TOX	5R01 ES00965-02	74,918
PRAKASH, LOUISE	REPAIR OF DAMAGED DNA AND MUTAGENESIS IN YEAST	GEN	2R01 GM19261-04	47,197
PRAKASH, SATYA	GENE VARIATION IN NATURAL POPULATIONS	GEN	2R01 GM19217-04	85,968
RICHTER, GOETZ W.	IRON IN CELL PATHOLOGY	PTBH	5R01 AM12381-08	76,909
RITTERSON, ALBERT L.	HOST-PARASITE RELATIONSHIPS IN TRICHINOSIS	TMP	5R01 AI01042-19	36,151
ROWLEY, PETER T.	FETAL HEMOGLOBIN SYNTHESIS CONTROL & SICKLE CELL ANEMIA	HEM	3R01 AM16847-02S1	9,425
ROWLEY, PETER T.	CONTROL OF HEMOGLOBIN SYNTHESIS	HEM	5R01 AM16847-03	81,241

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
ROWLEY, PETER T.....	BETA-THALASSEMIA SCREENING AND GENETIC COUNSELING.....	GEN	1R01 HL17465-01	46,468
RUBIN, PHILIP.....	SUPPORT FOR CLINICAL RADIATION RESEARCH CENTER.....	CAP	5P02 CA11051-07	333,392
RUBIN, PHILIP.....	COOPERATIVE STUDY OF RADIATION THERAPY.....	CCI	5R10 CA12262-04	57,212
RUBIN, PHILIP.....	RADIATION THERAPY COORDINATING OFFICE.....	CCI	1R10 CA16449-01	33,802
SATRAN, RICHARD.....	ASPIRIN IN CEREBRAL ISCHEMIA-JOINT STUDY.....	TEC	5R01 HL14337-03	51,460
SCHEINER, ALBERT P.....	ROLE OF CYTOMEGALOVIRUS IN THE DEVELOPMENT OF THE CNS.....	VR	5R01 HD07070-03	37,242
SCHLESSINGER, RICHARD H.....	A SYNTHESIS OF THE ELEMALOLIDE DILACTONE VERNOLEPIN.....	MCHA	1R01 CA18485-01	45,348
SCHLESSINGER, RICHARD H.....	A PRACTICAL TOTAL SYNTHESIS OF THE PROSTAGLANDINS.....	MCHA	1R01 HL17341-01	65,057
SCHWARTZ, SEYMOUR I.....	PULMONARY PLATELETS IN SHOCK, TRAUMA, AND EMBOLIZATION.....	SGYB	5R01 HL13466-05	43,509
SEGEL, GEORGE B.....	ENERGY METABOLISM IN NORMAL AND LEUKEMIC LYMPHOCYTES.....	HEM	5R01 CA14576-03	39,350
SELANDER, ROBERT K.....	GENETIC ASPECTS OF SOCIAL BEHAVIOR IN HYMENOPTERA.....	GEN	7R01 GM21754-01	33,759
SELANDER, ROBERT K.....	BIOCHEMICAL GENETICS OF WILD AND LABORATORY MICE.....	GEN	1R01 GM22126-01	93,802
SENIOR, ALAN E.....	PROLACTIN RECEPTORS IN NORMAL AND NEOPLASTIC BREASTS.....	ET	1R01 CA16787-01	53,221
SHAMOO, ADIL E.....	MOLECULAR MECHANISM OF ACTIVE TRANSPORT.....	GMB	5R01 AM17571-02	52,909
SHERMAN, FRED.....	THE GENETIC CONTROL OF CYTOCHROME C.....	GEN	5R01 NM12702-11	163,215
SHRAGER, PETER G.....	BIOCHEMICAL PROBES OF EXCITABLE MEMBRANES.....	PHY	5R01 NS10500-03	34,233
SMITH, FRANK A.....	TOXICITY OF ORGANIC FLUORO COMPOUNDS, FLUOROACETATE.....	TOX	1R01 ES00779-01A1	42,916
SNIDER, RAY S.....	CEREBELLO-CEREBRO-CEREBELLAR CIRCUITS.....	NEUA	1R01 NS11929-01	54,846
SOBEL, HENRY M.....	PURINE-PYRIMIDINE CRYSTALLINE COMPLEXES.....	BBCA	2R01 GM13939-10	95,875
SORRENTINO, SANDY, JR.....	REGULATION OF GROWTH AND GROWTH HORMONE.....	END	5R01 AM16557-02	35,645
SORRENTINO, SANDY, JR.....	HUMAN FETAL NEUROENDOCRINOLOGY.....	END	5R01 HD07926-02	21,349
SPAR, IRVING I.....	STUDIES WITH RADIOIODINATED ANTISERUM TO CEA.....	SRC	5R26 CA16782-02	66,242
STOLL, RALPH W.....	EXTRAPANCREATIC SIGNIFICANCE OF PROINSULIN.....	MET	5R01 AM15787-02	43,272
TAI, HSIN-HSIUNG.....	ENZYMES IN PROSTAGLANDIN METABOLISM.....	BIO	1R01 GM21588-01	38,760
TANAKA, RYO.....	BIOCHEMICAL MECHANISM OF TRANSMITTER RELEASE.....	NEUB	1R01 NS11951-01	56,029
TURNER, MICHAEL D.....	GLYCOPROTEIN ANTIGENS IN EXPERIMENTAL LARGE BOWEL CANCER.....	SRC	5R26 CA16732-02	61,322
WATERHOUSE, CHRISTINE.....	HEPATIC SYNTHESIS AND RELEASE OF TRIGLYCERIDE.....	MET	5R01 CA07123-11	33,558
WEED, ROBERT I.....	STRUCTURE-FUNCTION RELATIONS IN BLOOD CELL MEMBRANES.....	HEM	5R01 HL06241-14	108,643
WEED, ROBERT I.....	CENTER FOR THE STUDY OF BLOOD CELL RHEOLOGY.....	HEP	1P01 HL18208-01	652,036
WEISS, BERNARD.....	COMPARATIVE STUDIES ON MAMMALIAN NERVOUS SYSTEM.....	SRC	5R01 NS08048-05	22,249
WEITKAMP, LOWELL R.....	GENE-LINKAGE RELATIONSHIPS OF HUMAN AUTOSOMAL LOCI.....	GEN	5R01 GM19962-03	49,062
WIBERG, JOHN S.....	REGULATION OF PROTEIN SYNTHESIS BY BACTERIOPHAGE T4.....	GEN	1R01 GM21999-01	92,523
WILHELM, JAMES M.....	STUDIES OF VIRUS REPLICATION AND TRANSFORMATION.....	VR	5R01 AI11427-02	38,926
WOODWARD, DONALD J.....	EFFECTS OF ENVIRONMENTAL STRESSES ON BRAIN DEVELOPMENT.....	NEUB	5R01 NS09820-05	53,726
YOUNG, DONALD A.....	MECHANISM OF ACTION OF STEROID HORMONES.....	END	2R01 AM16177-04A1	73,182
YOUNG, FRANK E.....	PHYSIOLOGIC/GENETIC REGULATION OF CELL WALL BIOSYNTHESIS.....	MBC	5R01 AI10141-05	63,769
YOUNG, FRANK E.....	STUDY OF BIOLOGY OF GONORRHEA.....	BM	5R01 AI11709-02	61,265
ZIGMAN, SEYMOUR.....	NEAR ULTRAVIOLET LIGHT EFFECTS ON OCULAR TISSUES.....	VISA	5R01 EY00459-06	72,024
ORGANIZATION TOTAL	141	12,388,379		
<b>SARANAC LAKE</b>				
TRUDEAU INSTITUTE	ZIP CODE 12983			
CARTER, PHILIP B.....	HOST RESPONSE TO INTESTINAL FLORA.....	BM	1R01 AM18530-01	25,967
COLLINS, FRANK M.....	ROLE OF HYPERSENSITIVITY IN ANTIBACTERIAL IMMUNITY.....	BM	5R22 AI07809-08	75,973
LEFFORD, MAURICE J.....	CELLULAR DEFENSES OF THE LUNG.....	BM	1R01 AI12404-01	52,534
MACKANESS, GEORGE B.....	CELLULAR DEFENSE MECHANISMS.....	IMB	5R01 AI07015-10	171,924
MACKANESS, GEORGE B.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05705-06	65,626
MC GREGOR, DOUGLAS D.....	MEDIATOR OF CELLULAR IMMUNITY.....	IMB	2R01 AI08642-07A1	64,543
MC GREGOR, DOUGLAS D.....	STUDY OF AGING, IMMUNITY, AND CANCER.....	IMB	5R01 CA15420-02	130,391
NORTH, ROBERT J.....	PRODUCTION AND DEPLOYMENT OF MEDIATORS OF CELL IMMUNITY..	BM	5R01 AI10351-05	104,006
NORTH, ROBERT J.....	IMMUNOLOGICAL BASIS OF TUMOR REGRESSION.....	IMB	1R01 CA16642-01	73,849
VOLKMAN, ALVIN.....	POLYARTHRITIS IN SALMONELLA-INFECTED RATS.....	IMB	5R01 AM17159-02	72,152
VOLKMAN, ALVIN.....	EFFECTS OF ANTITUMOR THERAPY ON MACROPHAGES.....	IMB	1R01 CA17756-01	81,474
ORGANIZATION TOTAL	11	918,439		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
<b>SCHENECTADY</b>				
<b>UNION COLLEGE AND UNIVERSITY SYSTEM—UNION COLLEGE      ZIP CODE 12308</b>				
BUTTERSTEIN, GEORGE M.	PARTURITION TIME AND REPRODUCTIVE DEVELOPMENT.....	HED	1R01 HD09058-01	26,770
ORGANIZATION TOTAL	1                      26,770			
<b>STONY BROOK</b>				
<b>STATE UNIVERSITY OF NEW YORK AT STONY BROOK      ZIP CODE 11794</b>				
ACKERMAN, LAUREN V.	COLORRECTAL PATHOLOGY REFERENCE CENTER.....	CCI	5R10 CA15474-02	38,545
ALBERT, ADRIEN	POLYAZA-HETEROCYCLE SYNTHESSES FOR CANCER CHEMOTHERAPY.....	MCHA	1R01 CA18386-01	29,951
ALTMAN, LAWRENCE J.	STUDIES ON THE INHIBITION OF SQUALENE SYNTHESIS.....	MCHA	2R01 AM16773-04	79,770
BAUER, WILLIAM R.	STRUCTURE OF EXTRACHROMOSOMAL AND VIRAL GENOMES.....	BBCA	5R01 GM21176-02	49,799
BENJAMIN, WILLIAM B.	RELATION OF PROTEIN PHOSPHORYLATION TO INSULIN ACTION.....	MET	1R01 AM18905-01	65,981
CHU, BENJAMIN	APPLICATION OF LASER SCATTERING TO BIOLOGICAL SYSTEMS.....	BBCA	1R01 GM20982-01	21,021
CIRILLO, VINCENT P.	PTS-MEDIATED SUGAR TRANSPORT IN MYCOPLASMAS.....	MBC	5R01 AI11506-02	29,795
DELIHAS, NICHOLAS	ANALYSIS OF RIBOSOME STRUCTURE BY REACTION WITH KETHOXAL.....	BBCA	5R01 GM20052-03	11,189
DEWEY, MAYNARD M.	BIOLOGICAL MEMBRANES AND PARAMYOSIN-CONTAINING FILAMENTS.....	MBY	5R01 GM20628-04	51,092
DUDOCK, BERNARD S.	SEQUENCE ANALYSIS OF BIOLOGICALLY ALTERED TRNA.....	PC	5R01 CA11047-07	41,928
FARA, JOHN W.	HORMONAL CONTROL OF MESENTERIC BLOOD FLOW.....	PHY	5R01 HL15422-03	27,653
FREUNDLICH, MARTIN	MECHANISM OF MULTIVALENT REPRESSION AND ROLE OF TRNA.....	PC	5R01 GM17152-06	50,534
FRIEDMAN, HAROLD L.	ANTIBIOTIC-ION INTERACTIONS.....	MCHB	5R01 HL16474-02	38,818
GARANT, PHILIAS R.	ULTRASTRUCTURE OF EXPERIMENTAL PERIODONTITIS.....	DEN	5R01 DE03745-04	56,975
GOLUB, LORNE M.	GINGIVAL COLLAGEN METABOLISM IN HEALTH AND DISEASE.....	DEN	1R01 DE03987-01	50,473
GROLLMAN, ARTHUR P.	MOLECULAR PHARMACOLOGY OF TUMOR AND VIRUS INHIBITORS.....	ET	7R01 CA11395-01	235,587
HANSON, DAVID M.	SPECTROSCOPIC INVESTIGATION OF CONFORMATIONAL CHANGES.....	BBCB	5R01 GM20803-02	31,328
INOUE, MASAYORI	CELL DIVISION AND MEMBRANE PROTEINS.....	MBC	2R01 GM19043-04	77,668
JANOFF, AARON	HUMAN LEUKOCYTE ELASTASE IN VASCULAR AND LUNG DISEASE.....	PTHA	5R01 HL14262-04	29,562
JONES, RAYMOND F.	ENZYME TURNOVER DURING GROWTH AND DEVELOPMENT.....	MBY	5R01 HD07986-02	37,514
JONES, RAYMOND F.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07067-10	45,113
KARTEN, HARVEY J.	ANATOMICAL ORGANIZATION OF THE BRAIN.....	NEUA	2R01 NS12078-02	40,639
KATZ, EUGENE R.	DEVELOPMENTAL GENETIC STUDIES ON CELLULAR SLIME MOLDS.....	GEN	3R01 GM18476-03SI	7,153
KEEGSTRA, KENNETH G.	SURFACE GLYCOPOLYMERIZATION OF NORMAL AND TRANSFORMED CELLS.....	PTHB	5R01 CA15630-02	30,760
KLEINBERG, ISRAEL	EFFECT OF SALIVA ON THE METABOLISM OF DENTAL PLAQUE.....	DEN	1R01 DE03993-01	103,934
KOEHN, RICHARD K.	BIOCHEMICAL GENETICS OF CORRELATED ALLOZYME VARIATION.....	GEN	1R01 GM21133-01	38,856
KUSCHNER, MARVIN	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05736-03	117,849
LACONO, VINCENT J.	IMMUNOCHEMICAL ANALYSES OF ACTINOMYCES ANTIGENS.....	ALY	1R23 DE04168-01	12,790
LAUTERBUR, PAUL C.	APPLICATION OF NMR ZEUGMATOGRAPHY IN CANCER RESEARCH.....	BBCB	5R01 CA15300-02	80,543
LERNER, RAYMOND C.	A SOCIO-MEDICAL STUDY OF INDUCED ABORTION.....	POP	5R01 HD08514-02	89,028
LEVY, HARVEY M.	CONTRACTILE AND CONTROL SITES OF ACTOMYOSIN.....	SSS	5R01 HL15051-03	30,429
MASIAK, STANLEY J.	BIOCHEMICAL STUDIES OF RED CELL MEMBRANES.....	HEM	5R01 AM16821-02	28,365
MILLER, FREDERICK	A STUDY OF A COLONIC MUCOPROTEIN ANTIGEN.....	ALY	1R01 CA17518-01	33,812
OHTSUBO, EIICHI	ELECTRON MICROSCOPE ANALYSIS OF GENETIC FUSION.....	SSS	1R01 GM22007-01	41,669
PHILLIPS, MILDRED E.	CELLULAR IMMUNE RESPONSES IN GRAFT REACTION SYSTEMS.....	IMB	5R01 CA15951-02	35,515
POLLOCK, JERRY J.	LYSOZYME-CELL SURFACE INTERACTIONS AND ORAL DEFENSE.....	DEN	1R01 DE04296-01	71,299
RAMIREZ, FAUSTO	SUPERPHOSPHORYLATING AGENTS.....	MCHA	5R01 GM20672-15	75,263
RILEY, MONICA	MOLECULAR MECHANISM OF RECOMBINATION IN E. COLI.....	SSS	3R01 GM21315-01SI	2,754
RILEY, MONICA	EVOLUTION OF THE TRYPTOPHANASE GENE IN E. COLI.....	SSS	5R01 GM21316-02	21,621
SIMON, SANFORD R.	CONFORMATION STUDIES ON MODIFIED HEMOGLOBINS.....	BBCB	5R01 HL13527-05	30,333
SIMON, SANFORD R.	REGULATION AND CONTROL IN NA-K ATPASE.....	BBCA	1R01 HL17466-01	38,331
SIMPSON, MELVIN V.	NUCLEIC ACID SYNTHESIS AND ROLE OF DNA IN MITOCHONDRIA.....	BIO	5R01 AM11317-09	52,479
SOKOLOFF, LEON	LUBRICATING ABILITY OF SYNOVIAL FLUID.....	GMA	5R01 AM17229-02	14,340
STERNGLIANZ, ROLF	BACTERIAL AND MAMMALIAN DNA REPLICATION STUDIES.....	MBC	5R01 AI11519-03	21,201
TERWASON, REGINALD P.	NUMERICAL SOLUTION OF RENAL TRANSPORT EQUATIONS.....	COM	5R01 AM17593-02	21,609
TURNER, JOHN R.	GENETIC ARCHITECTURE OF ADAPTIVE RACIAL DIFFERENCES.....	GEN	3R01 GM20702-01SI	4,500
VALINS, STUART	ANTECEDENTS AND CONSEQUENCES OF OVERCROWDING.....	POP	5R01 HD07545-02	32,787
VAN DER KLOOT, WILLIAM G.	TRANSMITTER RELEASE BY NERVE TERMINALS.....	PHY	5R01 NS10320-03	31,450
WALCOTT, CHARLES	EXPERIMENTAL ANALYSIS OF ORIENTATION.....	EXP	2R01 NS08708-07	24,362
WILLIAMS, DAVID L.	HORMONAL REGULATION OF PHOSVITIN MESSENGER RNA.....	PC	1R01 AM18171-01	45,231

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
WIMMER, ECKARD A.....	VIRAL ONCOGENESIS.....	VR	5R01 CA16879-02	85,600
ORGANIZATION TOTAL	51 2,364,798			
<b>SYRACUSE</b>				
<b>STATE UNIVERSITY OF NEW YORK—COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY</b>		<b>ZIP CODE 13210</b>		
FLASHNER, MICHAEL.....	STRUCTURAL BIOCHEMISTRY OF BACTERIAL NEURAMINIDASES.....	BIO	1R01 AI12532-01	33,724
HARTENSTEIN, ROY.....	DEAMINATION OF AMINO ACIDS BY MYELOPEROXIDASE.....	BIO	1R01 CA15864-01	12,166
LALONDE, ROBERT T.....	PROPERTIES OF SULFUR ALKALOIDS.....	MCHA	5R01 AI10188-05	44,084
NAKATSUGAWA, TSUTOMU.....	ORGANOPHOSPHATE-BIOMACROMOLECULE INTERACTIONS.....	TOX	1R01 ES01019-01	41,946
SCHUERCH, CONRAD.....	SYNTHETIC CARBOHYDRATE ANTIGENS AND HAPTENS.....	MCHA	1R01 AI12509-01	57,056
SCHUERCH, CONRAD.....	STEREOSPECIFIC SYNTHESIS OF POLYSACCHARIDES.....	MCHA	5R01 GM06168-17	41,179
SILVERSTEIN, ROBERT M.....	SEX PHEROMONES IN DISEASE TRANSMITTING TICKS.....	TMP	5R01 AI10987-03	17,273
TANENBAUM, STUART W.....	BIOSYNTHESIS OF POLYKETIDE FUNGAL ANTIBIOTICS.....	SSS	2R01 AI11902-02	48,075
ORGANIZATION TOTAL	8 295,503			
<b>STATE UNIVERSITY OF NEW YORK—UPSTATE MEDICAL CENTER</b>		<b>ZIP CODE 13210</b>		
ARGYRIS, BERTIE F.....	CELL INTERACTIONS IN THE REJECTION OF TUMOR TRANSPLANTS.....	IMB	5R01 CA15462-02	59,953
ARGYRIS, THOMAS S.....	RIBOSOME ACCUMULATION IN EPIDERMAL REGENERATION.....	GMA	1R01 AM18219-01	33,085
AUCHINCLOSS, J HOWLAND, JR.....	OXYGEN UPTAKE AT ONE MINUTE OF EXERCISE.....	CVA	1R01 HL17246-01	69,441
BAKER, BRUCE E.....	THE ENHANCEMENT OF ARTICULAR CARTILAGE REPAIR.....	AFY	5R01 AM17359-02	30,973
BASSEL, ALIX R.....	STRUCTURE AND REPLICATION OF TUMOR VIRUS NUCLEIC ACID.....	VR	5R01 CA13006-03	49,583
BECKER, ROBERT O.....	BIOELECTRICAL PROPERTIES OF CONNECTIVE TISSUES.....	AFY	3R01 AM07626-11S1	17,456
BECKER, ROBERT O.....	ELECTRICAL CORRELATES OF ACUPUNCTURE.....	SSS	1R01 GM21847-01	14,389
BORTOFF, ALEXANDER.....	EFFECT OF AGING ON GASTROINTESTINAL SMOOTH MUSCLE.....	GMA	1R01 AM18400-01	42,603
BOWMAN, ROGER H.....	METABOLISM AND FUNCTION OF THE PERFUSED RAT KIDNEY.....	GMB	5R01 AM14401-05	40,095
COLTON, RAYMOND H.....	AN INVESTIGATION OF VOICE CHANGE AFTER RADIOTHERAPY.....	CCG	1R18 CA17962-01	71,108
DOISY, RICHARD J.....	THE IMPORTANCE OF CHROMIUM IN HUMAN NUTRITION.....	NTN	2R01 AM15100-05A1	64,446
DOUGHERTY, ROBERT M.....	ONCOGENIC AND CHRONIC DISEASE WITH TUMOR VIRUSES.....	VR	2R01 CA10148-09	126,701
GORDON, GERALD B.....	PATHOGENESIS OF LIPID ACCUMULATION.....	PTHA	5R01 HL13713-05	46,215
HAAS, DAVID C.....	STUDIES ON CELL-MEDIATED IMMUNITY IN POLYMYOSITIS.....	NEUB	1R01 NS11266-01A1	34,966
HALL, ROBERT C.....	BILE ACID AND LECITHIN REABSORPTION FROM PRIMATE BILE.....	GMA	5R01 AM16617-03	54,978
HAMERNIK, ROGER P.....	AUDITORY EFFECT OF COMBINED IMPULSE & CONTINUOUS NOISE.....	SOH	5R01 ES00969-02	48,765
HOLZ, GEORGE G, JR.....	LIPID STUDIES OF TRYPANOSOMES.....	TMP	5R01 AI05802-12	44,712
HSU, ROBERT Y.....	MECHANISM OF FATTY ACID SYNTHESIS IN ANIMALS.....	PC	2R01 AM13390-08	55,176
JONES, DAVID B.....	FINE STRUCTURE OF DISEASED GLOMERULI.....	PTHA	2R01 HL04300-17	40,317
KRIEBEL, MAHLON E.....	TRANSMITTER RELEASE AT THE NEUROMUSCULAR JUNCTION.....	PHY	1R01 NS11996-01	56,082
KRONMAN, MARTIN J.....	MODE OF ACTION OF TEMPLATE DIRECTED POLYMERASES.....	BBCA	1R01 GM21187-01	52,020
LEVINE, ROBERT A.....	CYCLIC NUCLEOTIDES AND MAMMALIAN GASTRIC SECRETION.....	GMA	1R01 AM17912-01A1	45,915
LUCAS, JOHN J.....	MEMBRANE GLYCOPROTEIN CHANGES DURING DIFFERENTIATION.....	PC	1R01 HD09046-01	58,028
MC AFEY, JOHN G.....	RADIOISOTOPIC SCREENING METHODS FOR RENAL DISEASE.....	RAD	2R01 GM18248-04	82,967
MEYER, FRANZ D.....	STUDIES OF THE LIPID METABOLISM IN PARASITIC HELMINTHS.....	SSS	5R01 AI07486-09	60,101
MOZELL, MAXWELL M.....	THE ELECTROPHYSIOLOGY OF OLFACTORY DISCRIMINATION.....	CMS	2R01 NS03904-12	58,274
MUELLER, JUSTUS F.....	STUDIES ON SPARGANOSIS AND CESTODE BIOLOGY.....	TMP	5R01 AI01876-18	19,330
NORD, SAMUEL G.....	BULBAR TRIGEMINAL PAIN MECHANISMS.....	NEUB	5R01 NS10814-02	48,278
OLER, ALBERT.....	THE CELL MEMBRANE AND NEOPLASIA.....	PTHB	1R01 CA16629-01	63,005
OSKI, FRANK A.....	ERYTHROCYTE METABOLISM IN THE NEWBORN INFANT.....	HEM	2R01 HD07178-02A1	28,007
PRESTON, JAMES B.....	SUPRASEGMENTAL INFLUENCES ON SPINAL MOTONEURONS.....	PHY	5R01 NS02957-15	33,463
ROBINSON, JOSEPH D.....	CHANGES IN BRAIN MICROSOMAL STRUCTURE AND COMPOSITION.....	MBY	3R01 NS05430-09S1	12,711
ROBINSON, JOSEPH D.....	CHANGES IN BRAIN MICROSOMAL STRUCTURE AND COMPOSITION.....	PHRA	2R01 NS05430-10A1	43,872
ROBINSON, JOSEPH D.....	CALCIUM TRANSPORT IN THE NERVOUS SYSTEM.....	BIO	1R01 NS12193-01	33,216
ROSS, CHARLES R.....	RENAL TRANSPORT CARRIER FOR ORGANIC COMPOUNDS.....	PHRA	5R01 HL02835-18	53,332
SCHMIDT, RICHARD P.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05402-14	167,240
SPITZER, ROGER E.....	THE ROLE OF PROPERDIN IN THE BIOLOGY OF COMPLEMENT.....	ALY	1R01 AI12721-01	76,755
SPITZER, ROGER E.....	TRANSPLANT REJECTION AND C3 CONVERSION INHIBITION.....	ALY	5R01 AM17376-03	33,929
STACH, ROBERT W.....	INVESTIGATIONS ON THE NERVE GROWTH FACTOR.....	NEUB	1R01 NS12325-01	54,081
STAUFFER, JOHN Q.....	ACQUIRED HYPEROXALURIA AND INTESTINAL DISEASE.....	GMA	1R01 AM17968-01A1	37,130
STEINSCHNEIDER, ALFRED.....	SLEEP APNEA AND THE SUDDEN INFANT DEATH SYNDROME.....	HED	5R01 HD07460-03	115,614
STELZNER, DENNIS J.....	DEVELOPMENT OF SYNAPTIC KNOBS AND BEHAVIOR.....	NEUA	5R01 NS10579-03	39,756

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
STREETEN, BARBARA W.....	THE FIBER-GEL STRUCTURE OF THE OCULAR ZONULE.....	VISA	1R01 EY01602-01	51,590
TEPPERMAN, JAY.....	ADAPTATION OF MEMBRANE-ASSOCIATED FUNCTIONS.....	MET	5R01 AM05410-14	80,099
WEINER, IRWIN M.....	BIOCHEMICAL ASPECTS OF RENAL ELECTROLYTE TRANSPORT.....	PHRA	5R01 HL10595-10	62,450
WILLIAMS, WILLIAM J.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00229-10	508,454
YOUNG, RONALD F.....	INTERDEPENDENCE OF TRIGEMINAL RELAY NUCLEI.....	SSS	1R01 NS11248-01A1	24,919
ORGANIZATION TOTAL	47 2,945,580			
<b>SYRACUSE CANCER RESEARCH INSTITUTE ZIP CODE 13202</b>				
GOLD, JOSEPH.....	TREATMENT OF CANCER BY INHIBITION OF GLUCONEOGENESIS.....	ET	5R01 CA13687-02	39,744
ORGANIZATION TOTAL	1 39,744			
<b>SYRACUSE UNIVERSITY ZIP CODE 13210</b>				
BALBINDER, ELIAS.....	GENETIC AND BIOCHEMICAL STUDY OF A MULTENZYM COMPLEX.....	GEN	5R01 GM19839-03	57,189
DITMER, DONALD C.....	HETEROCYCLIC ORGANOSULFUR CHEMISTRY.....	MCHB	2R01 CA08250-11	37,454
DUSEK, JEROME B.....	THE DEVELOPMENT OF THE SELF-CONCEPT IN ADOLESCENCE.....	DBR	1R01 HD09094-01	51,455
ELIAS, MERRILL F.....	EFFECT OF AGE ON VERBAL AND NONVERBAL PROCESSES.....	EXP	5R01 HD08220-03	28,546
FLORINI, JAMES R.....	RNA AND PROTEIN SYNTHESIS IN REPAIR OF HEART INJURY.....	PC	5R01 HL11551-08	60,595
FONDY, THOMAS P.....	GLYCEROL-P DEHYDROGENASE IN CANCER CHEMOTHERAPY.....	ET	5R01 CA10250-09	87,580
HARTH, ERICH.....	DETERMINATION OF RECEPTIVE FIELDS IN VISUAL PATHWAYS.....	COM	5R01 EY01215-02	31,846
LEVY, H RICHARD.....	MECHANISMS OF CONTROL OF ENZYMATIC ACTIVITY.....	PC	5R01 AM07720-11	69,188
PATCHEN, L WILLIAM.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07068-10	44,365
ROTHENBERG, MARTIN.....	VOICE QUALITY AND LARYNGEAL FREQUENCY.....	CMS	5R01 NS08919-05	23,195
ROTHENBERG, MARTIN.....	TACTILE PERCEPTION OF SPEECH.....	CMS	5R01 NS10474-02	48,329
STERN, S ALEXANDER.....	INERT GAS NARCOSIS AND THE LIPID FREE VOLUME.....	PHRA	2R01 GM19908-03	42,891
STURR, JOSEPH F.....	MECHANISMS OF VISUAL SENSITIVITY.....	VISB	1R01 EY01571-01	74,871
SULLIVAN, DAVID T.....	DEVELOPMENTAL REGULATION OF KYNUREININE HYDROXYLASE.....	GEN	3R01 GM21286-01S1	7,177
TIEN, CHI.....	PREPARING MONODISPersed MICROSPHERES FOR MEDICAL USES.....	RAD	5R01 GM17116-06	69,991
TUPPER, JOSEPH T.....	CAMP AND THE MEMBRANE IN NORMAL AND MALIGNANT CELLS.....	SSS	1R01 CA17203-01	47,543
VERRILLO, RONALD T.....	CUTANEOUS MECHANORECEPTOR SYSTEMS.....	CMS	2R01 NS09940-04	76,406
VOURNAKIS, JOHN N.....	THE SECONDARY STRUCTURE OF EUCARYOTIC MESSENGER RNA.....	BBCA	1R01 GM22280-01	59,945
WARNER, FRED D.....	MACROMOLECULAR BASIS FOR CILIARY MOTILITY.....	CBY	5R01 GM20690-02	50,745
ZWISLOCKI, JOZEF J.....	SENSORY PROCESSES.....	CMS	5R01 NS03950-13	157,654
ORGANIZATION TOTAL	20 1,126,965			
<b>TROY</b>				
<b>RENSSELAER POLYTECHNIC INSTITUTE ZIP CODE 12181</b>				
ARCHER, SYDNEY.....	LETHAL BIOSYNTHESIS AS A BASIS FOR DRUG DESIGN.....	MCHB	1R01 AI12874-01	34,744
DAS, PANKAJ K.....	TRANSMITTING ULTRAMINATURE PRESSURE MEASURING DEVICE.....	AFY	1R01 GM22046-01	36,978
DIWAN, JOYCE J.....	MECHANISM OF K <sup>+</sup> TRANSPORT IN LIVER MITOCHONDRIA.....	BIO	5R01 GM20726-02	28,212
FERRIS, JAMES P.....	PHOTOSYNTHESIS OF ANTIVIRAL AND ANTITUMOR DRUGS.....	MCHB	5R01 CA14511-03	53,176
HARPER, RICHARD A.....	MEASUREMENTS OF STRAIN IN BIOLOGICAL MINERAL APATITES.....	DEN	5R01 DE03728-02	34,891
MOSS, GERALD.....	ANESTHESIA AND PATHWAYS OF BRAIN GLUCOSE OXIDATION.....	SGYB	5R01 GM20560-02	39,902
PFU, CHARLES J.....	NEONATAL CEREBRAL HYPOXIA IN HYALINE MEMBRANE DISEASE.....	CVB	5R01 HD07160-02	44,367
POTTS, KEVIN T.....	STUDIES ON THE NATURE OF ARENAVIRUSES.....	VR	5R01 AI10612-05	49,000
POTTS, KEVIN T.....	FUSED HETEROCYCLES AS POTENTIAL ANTICANCER AGENTS.....	MCHA	2R01 CA08495-10	47,714
POTTS, KEVIN T.....	NOVEL HETEROCYCLES AS POTENTIAL HYPOTENSIVE AGENTS.....	MCHB	5R01 HL15021-03	53,183
SHUSTER, WILLIAM W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07104-09	32,117
WILSON, DWIGHT E, JR.....	STUDIES ON CELL TRANSFORMATION HERPES VIRUS.....	VR	1R01 CA16550-01	41,690
ORGANIZATION TOTAL	12 495,974			
<b>UPTON</b>				
<b>ASSOCIATED UNIVERSITIES—BROOKHAVEN NATIONAL LABORATORY ZIP CODE 11973</b>				
ATKINS, HAROLD L.....	DIAGNOSIS OF MYOCARDIAL INFARCTION BY RADIOISOTOPES.....	RAD	5R01 HL16553-02	34,034
BENNETT, GERALD W.....	BRAGG PEAK LOCALIZATION AND CONTROL IN VIVO.....	SSS	1R01 CA18347-01	398,490
CHIKKAPPA, G.....	NEUTROPHILIC GRANULOCYTOPOIESIS IN LEUKEMIAS.....	HEM	5R01 CA14742-02	86,705
CROWKITE, EUGENE P.....	HEMOPOIETIC REGULATORS PRODUCED IN CELL CULTURE.....	HEM	5R01 HL15685-03	88,827
CROWKITE, EUGENE P.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05731-04	151,123



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NEW YORK—Continued</b>				
DAHL, LEWIS K.....	GENETIC INFLUENCE OF KIDNEY ON HYPERTENSION.....	GMB	5R01 HL14913-03	22,478
JEFFREY, GEORGE A.....	CRYSTAL STRUCTURAL STUDIES IN CARBOHYDRATE CHEMISTRY.....	BBCA	7R01 GM21794-01	71,278
SELTZER, STANLEY.....	STUDY OF MECHANISM OF ENZYMIC CIS-TRANSISOMERIZATION.....	BIO	2R01 GM18451-04	19,470
SHAW, ELLIOTT N.....	SPECIFIC SYNTHETIC INHIBITORS OF PROTEASES.....	BIO	5R01 GM17849-04	55,050
SHAW, ELLIOTT N.....	SUPPORT FOR ELECTRON MICROSCOPE FACILITY.....	MBY	5P07 RR00715-03	75,210
STUDIER, F WILLIAM.....	REPLICATION OF T7 DNA.....	GEN	1R01 GM21872-01	48,515
ORGANIZATION TOTAL	11 1,051,180			
<b>UTICA</b>				
<b>MASONIC FOUNDATION FOR MEDICAL RESEARCH AND HUMAN WELFARE ZIP CODE 13501</b>				
MOE, GORDON K.....	MODELS FOR STUDY OF CARDIAC ARRHYTHMIAS.....	CVB	5R01 HL15759-03	90,442
MOE, GORDON K.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05762-01	26,054
WULFF, VERNER J.....	A STUDY OF VISUAL COUPLING REACTIONS.....	VISB	5R01 EY00236-14	51,609
ORGANIZATION TOTAL	3 168,105			
<b>YONKERS</b>				
<b>BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH ZIP CODE 10701</b>				
ROBERTS, DONALD W.....	STUDY OF VARIOLA-LIKE VIRUS PATHOGENIC TO INSECTS.....	TMP	5R01 AI08836-07	62,584
ROBERTS, DONALD W.....	POTENTIAL OF COELOMOMYCES FOR CONTROLLING MOSQUITOES.....	TMP	5R01 AI10010-05	48,833
WELLMAN, RICHARD H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05679-07	22,223
ORGANIZATION TOTAL	3 133,640			
STATE TOTAL	1,907 189,176,229			
<b>NORTH CAROLINA</b>				
<b>CHAPEL HILL</b>				
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL ZIP CODE 27514</b>				
BAKER, BRUCE S.....	GENETICS OF MEIOSIS AND DEVELOPMENT IN DROSOPHILA.....	GEN	1R01 GM22089-01	60,626
BASEMAN, JOEL B.....	GROWTH AND METABOLISM OF VIRULENT TREPONEMA PALLIDUM.....	BM	5R01 AI11283-03	32,056
BEAR, RICHARD S.....	MOLECULAR STRUCTURE OF CONNECTIVE TISSUE FIBERS.....	BBCB	5R01 AM14120-06	32,429
BEAR, RICHARD S.....	STRUCTURAL MOLECULAR NEUROANATOMY OF MYELIN.....	BBCB	5R01 NS10681-03	41,540
BLAUG, SEYMOUR M.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05760-01	28,186
BLYTHE, WILLIAM B.....	STUDIES OF UREMIA AND EXCHANGES OF IONS AND WATER.....	GMB	2P01 AM08458-11	191,050
BRIGGAMAN, ROBERT A.....	UTILIZATION OF EPIDERMAL CELL MODEL FROM HUMAN SKIN.....	GMA	5R01 AM10546-10	55,564
BRINKHOUS, KENNETH M.....	BLOOD COAGULATION AND HEMOPHILIA.....	HEM	2R01 HL01648-28	74,707
BRINKHOUS, KENNETH M.....	HEMOSTASIS & THROMBOSIS—ANALYSIS, METHODS, & STANDARDS.....	HEM	5R01 HL10582-10	25,297
BRINKHOUS, KENNETH M.....	SPECIALIZED CENTER OF RESEARCH IN THROMBOSIS.....	SRC	5P17 HL14228-05	613,698
BUTLER, THOMAS C.....	BIOCHEMICAL EFFECTS AND CHEMICAL REACTIONS OF DRUGS.....	PTR	5P01 GM18715-03	269,854
CAIRNS, ROBERT B.....	THE DEVELOPMENT OF AGGRESSIVE BEHAVIORS.....	EXP	5R01 HD08464-02	30,104
CAMPBELL, ROBERT L.....	OUTPATIENT GENERAL ANESTHESIA—BALANCED TECHNIQUE.....	DEN	1R23 DE04208-01	7,267
CAPLOW, MICHAEL.....	BIOCHEMICAL MECHANISMS RELEVANT TO DENTAL RESEARCH.....	BIO	5R01 DE03246-06	27,696
CARTER, CHARLES W, JR.....	STRUCTURAL STUDIES OF PROTEIN TO NUCLEIC ACID BINDING.....	BBCB	1R01 GM21991-01	29,788
CHAE, CHI-BOM.....	REGULATION OF SIMIAN VIRUS 40 GENES IN TRANSFORMED CELLS.....	SSS	1R01 CA17390-01	42,449
CHAE, CHI-BOM.....	DEGRADATION OF CHROMOSOMAL NONHISTONE PROTEINS.....	SSS	1R01 GM21846-01	27,737
CHANEY, STEPHEN G.....	ALTERED RNA METABOLISM IN CHRONIC LYMPHOCYTIC LEUKEMIA.....	MBY	5R01 AI15697-02	31,354
COCOLAS, GEORGE H.....	STEREOCHEMISTRY OF THE CHOLINERGIC MECHANISM.....	PHRA	5R01 NS09088-05	24,766
COLLIER, ALBERT M.....	MICROBIAL INTERACTION IN ACUTE RESPIRATORY DISEASE.....	BM	3R01 HL15024-03S1	8,351
CORNONI, JOAN C.....	DRUG TAKING FOR HYPERTENSION IN A RURAL COMMUNITY.....	EDC	1R01 HL18175-01	109,837
COSTELLO, DONALD P.....	STUDIES ON MICROTUBULES.....	CBY	5R01 GM15311-13	47,946
COUCH, JOHN N.....	STUDIES ON SOME FUNGAL PARASITES OF MOSQUITOES.....	TMP	5R01 AI03235-15	38,552
DYKSTRA-HYLANDER, LINDA.....	SIGNAL DETECTION ANALYSIS OF ANALGESICS.....	PPR	1R01 GM22683-01	29,680
EDGELL, MARSHALL H.....	STUDY OF PHI X-174 COAT PROTEINS.....	VR	5R01 AI09044-07	34,119
ELSTON, ROBERT C.....	GENETIC & STATISTICAL ANALYSIS OF CANCER ETIOLOGY.....	EDC	1R01 CA17107-01	43,507

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>				
ELSTON, ROBERT C.	GENETIC ANALYSIS OF MULTIFACTOR TRAITS.....	DBR	2R01 GM16697-07	110,500
FAUST, ROBERT G.	MECHANISM OF SUGAR TRANSPORT BY THE SMALL INTESTINE.....	MET	5R01 AM07998-11	49,495
FINN, ARTHUR L.	SODIUM AND POTASSIUM TRANSPORT IN THE URINARY BLADDER.....	PHY	1R01 AM17854-01	40,577
FOLEY, JAMES D.	INTERACTIVE GRAPHICS FOR MOLECULAR STUDIES.....	COM	5P07 RR00898-02	66,930
FORDHAM, CHRISTOPHER C. III	GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00046-15	674,549
FORDHAM, CHRISTOPHER C. III	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05406-14	255,345
FRAZIER, PATRICIA D.	STRUCTURE AND FUNCTION OF GAL-1-P04 URIDYL TRANSFERASE.....	PC	5R01 AM16709-03	20,206
GALLAGHER, JAMES J.	LONGITUDINAL INTERVENTION FOR HIGH-RISK CHILDREN.....	HDMR	1P01 HD09130-01	225,332
GATZY, JOHN T. JR.	AIRBORNE METALS AND LUNG PERMEABILITY.....	CVA	2R01 HL16674-02	39,125
GERATZ, JOE DIETER	PROTEASE INHIBITORS, PHYSIOLOGY AND PATHOLOGY.....	GMA	2R01 AM10746-09	51,615
GLEZEN, WILLIAM P.	HOST FACTORS IN PATHOGENESIS OF RESPIRATORY DISEASE.....	PTHA	2R01 HL15111-04	57,827
GOODER, HARRY	CELL WALL DEFECTIVE VARIANTS OF NEISSERIA GONORRHOEA.....	BM	1R01 AI12535-01	36,106
GOTTSCALK, CARL W.	MICROPUNCTURE STUDY OF KIDNEY FUNCTION.....	GMA	5R01 HL02334-19	90,353
GOZ, BARRY	IDOUR AND ALKALINE PHOSPHATASE IN HUMAN CANCER CELLS.....	ET	1R01 CA16460-01	46,473
GOZ, BARRY	ARGINYL-TRNA PROTEIN TRANSFERASE: PROPERTIES AND ROLE.....	PC	7R01 GM21785-01	22,524
GRAHAM, JOHN B.	HEMOSTASIS RESEARCH PROGRAM.....	HEP	5P01 HL06350-14	435,030
GRAY, TIMOTHY K.	HORMONAL CONTROL OF CALCIUM AND PHOSPHATE ABSORPTION.....	GMB	1R01 AM17835-01	37,565
GREENBERG, B. G.	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05450-14	35,080
GRISHAM, JOE W.	FEEDBACK MEDIATORS CONTROLLING DNA SYNTHESIS IN LIVER.....	PTHB	5R01 AM17595-02	38,496
HALL, THOMAS L.	POPULATION RESEARCH PROGRAM.....	HDPR	5P01 HD05798-02	180,592
HARNED, HERBERT S. JR.	EFFECTS OF SWALLOWING ON PERINATAL RESPIRATION.....	HED	1R01 HD08639-01	27,958
HARRISON, JOHN H.	STRUCTURAL PROPERTIES OF MALATE DEHYDROGENASE.....	BIO	5R01 NS12445-07	24,897
HAUGHTON, GEOFFREY.	INTEGRATED TUMOR BIOLOGY PROGRAM.....	CAK	5P01 CA16246-02	384,407
HEIZER, WILLIAM D.	INTESTINAL PEPTIDASES: PROPERTIES AND FUNCTIONS.....	BIO	5R01 AM15119-05	45,425
HENSON, O'DELL W. JR.	MECHANISM OF ACOUSTIC PERCEPTION AND ORIENTATION.....	CMS	1R01 NS10685-01	61,734
HERION, JOHN C.	LEUKOCYTES AND HEMOSTASIS.....	HEM	1R01 HL17835-01	71,567
HIRSCH, PHILIP F.	REGIONAL DENTAL RESEARCH CENTER.....	DSR	5P13 DE02668-09	1,400,000
HISKEY, RICHARD G.	SYNTHESIS AND CHEMISTRY OF ORIENTED PEPTIDES.....	MCHA	5R01 AM03416-16	62,258
HISKEY, RICHARD G.	REACTIVITY AND PAIRING OF CYSTINE RESIDUES.....	MCHA	5R01 GM07966-15	53,974
HODGSON, DEREK J.	STRUCTURES OF ANTITUMOR AZAPURINES AND AZAPYRIMIDINES.....	BBCA	5R01 CA15171-02	37,198
HODGSON, DEREK J.	STRUCTURAL STUDIES IN TREATMENT OF METAL POISONING.....	MCHB	5R01 ES00895-02	31,360
HOLCOMB, GEORGE R.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07072-10	50,947
HUANG, ENG-SHANG.	ANALYSIS OF HUMAN CYTOMEGALOVIRUS.....	VR	1R01 AI12717-01	73,231
HUTCHISON, CLYDE A. III.	GENETICS AND DNA CHEMISTRY OF PHAGE PHI X-174.....	PC	5R01 AI08998-07	31,350
HUTCHISON, CLYDE A. III.	EUKARYOTIC GENE ORGANIZATION.....	GEN	1R01 GM21313-01	132,579
INGRAM, DAVID L.	DIAGNOSIS OF SYSTEMIC INFECTIONS BY ANTIGEN DETECTION.....	BM	5R01 AI12239-02	32,937
JOHNSON, ANDREW M.	GENETIC ANTIPROTEASE VARIANTS IN DISEASE.....	ALY	5R01 AI11280-02	42,302
JOHNSON, ANDREW M.	INDUCTION OF LIVER DISEASE BY PROTEOLYTIC ENZYMES.....	GMA	1R01 AM18540-01	36,066
JOHNSON, CHARLES S. JR.	QUASI-ELASTIC LIGHT SCATTERING STUDIES ON HEMOGLOBIN S.....	BBCB	1R01 AM17823-01A1	34,537
KAFER, ENID R.	NEURAL AND VENTILATORY RESPONSES TO MECHANICAL LOADS.....	CVA	1R01 HL17314-01	23,417
KINGDON, HENRY S.	BACTERIAL HEPARINASE IN DIAGNOSTIC COAGULATION STUDIES.....	HEM	1R01 HL17726-01	30,462
KIRKMAN, HENRY N. JR.	ROLE OF HEXOSE MONOPHOSPHATE SHUNT IN GENETIC DISEASE.....	GEN	5R01 AM16721-03	28,458
KOCH, WILLIAM E.	DIFFERENTIATION OF EMBRYONIC TOOTH RUDIMENTS IN VITRO.....	DEN	5R01 DE02863-08	48,767
KOEHLER, KARL A.	TRANSITION STATE ANALOG INHIBITORS OF THROMBIN.....	SSS	1R01 HL18245-01	40,765
KRIGMAN, MARTIN R.	NEUROBIOLOGY OF ENVIRONMENTAL POLLUTANTS.....	SSS	1P01 ES01104-01	445,764
KUNO, MOTYO	MONOSYNAPTIC TRANSMISSION IN SPINAL NEURONS.....	NEUA	5R01 NS10319-04	79,943
LARSH, JOHN E. JR.	IMMUNOLOGICAL STUDIES IN EXPERIMENTAL TRICHINOSIS.....	TMP	2R01 AI10671-04	36,790
LARSH, JOHN E. JR.	PHOSPHOLIPASE LEVELS IN EXPERIMENTAL TRICHINOSIS.....	TMP	5R01 AI11963-02	25,854
LEE, KUO-HSIUNG	STUDIES IN MEDICINAL CHEMISTRY—ANTITUMOR AGENTS.....	MCHA	5R01 CA12360-05	40,654
LEE, KUO-HSIUNG	PLANT ANTITUMOR AGENTS.....	MCHB	1R01 CA17625-01	32,766
LEEB, IRWIN J.	THE ROLE OF ETHIONINE IN PAROTID GLAND PROTEIN SYNTHESIS.....	DEN	1R23 DE04353-01	11,932
LEINFELDER, KARL F.	HARDENING OF PRECIOUS METAL ALLOYS.....	DEN	1R01 DE04101-01	38,762
LOE, PHILIP R.	FUNCTIONAL ARCHITECTURE OF SOMATOSENSORY THALAMUS.....	NEUA	1R01 NS11737-01A1	43,972
LUCCHESE, JOHN C.	GENETIC REGULATION IN DROSOPHILA: DOSAGE COMPENSATION.....	GEN	2R01 GM15691-07	51,378
MARUSHIGE, KEIJI	CHROMATIN IN SPERMATOGENESIS AND FERTILIZATION.....	CBY	1R01 HD08510-01A1	31,031
MASON, REGINALD G. JR.	BLOOD PLATELETS: MEMBRANES, AGGREGATION AND ADHESION.....	HEM	3R01 HL13296-04S1	708
MATTHYSSE, ANN G.	THE MECHANISM OF TUMORIGENESIS BY A. TUMEFACIENS.....	BM	1R01 CA18604-01	44,128
MC ILWAIN, DAVID L.	BULK ISOLATION OF LARGE SPINAL NEURONS.....	NEUB	1R01 NS12103-01	29,172
MC MICHAEL, ANTHONY J.	CASE-CONTROL BLADDER TUMOR MORBIDITY STUDY.....	SRC	5R26 CA15950-02	59,943
MC MILLAN, CAMPBELL W.	COLLABORATIVE STUDIES IN THE SOUTHWEST ONCOLOGY GROUP.....	CCI	1R10 CA16950-01	36,655

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>				
MILLER, AUGUSTUS T. JR.	CELL ENERGETICS AND AGING	PHY	2R01 HD05606-04	45,243
MORELL, PIERRE	ASSEMBLY AND MAINTENANCE OF THE MYELIN SHEATH	NEUB	5R01 NS11615-02	35,172
MORELL, PIERRE	ASSEMBLY AND MAINTENANCE OF THE MYELIN SHEATH	NEUB	2R01 NS11615-03	96,913
MUNSON, PAUL L.	PEPTIDE HORMONES AFFECTING CALCIUM METABOLISM	GMB	3R01 AM10558-09S1	687
MUNSON, PAUL L.	PEPTIDE HORMONES AFFECTING CALCIUM METABOLISM	GMB	5R01 AM10558-10	149,252
NEWBOLD, JOHN E.	CHARACTERIZATION OF SPECIFIC FRAGMENTS OF SV40 DNA	VR	5R01 CA14572-03	42,011
NEWSOME, JAMES F.	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17973-01	157,740
NEY, ROBERT L.	ADRENAL CORTICAL PHYSIOLOGY AND PHARMACOLOGY	END	5R01 CA10408-08	58,719
ONTJES, DAVID A.	CHEMISTRY AND PHYSIOLOGY OF HUMAN THYROCALCITONIN	GMB	5R01 AM13587-05	36,743
ORNSTEIN, PETER A.	THE ROLE OF REHEARSAL IN CHILDREN'S MEMORY	EXP	5R01 HD08459-02	30,647
PAGANO, JOSEPH S.	CANCER CENTER SUPPORT GRANT	CAP	1P01 CA16086-01	442,841
PARKER, JOHN C.	ION TRANSFER AND METABOLISM IN MAMMALIAN RED BLOOD CELLS	HEM	5R01 AM11356-08	24,226
PARR, ROBERT G.	THE QUANTUM THEORY OF MOLECULAR ISOELECTRONIC CHANGES	BBCA	1R01 GM22028-01	43,993
PENNISTON, JOHN T.	VACUOLE FORMATION IN HUMAN ERYTHROCYTES AND GHOSTS	HEM	1R01 AM17588-01	56,898
PEREZ-REYES, MARIA	FOLLOW-UP OF ABORTION OR MOTHERHOOD IN ADOLESCENCE	POP	5R01 HD05952-04	49,653
PERL, EDWARD R.	A CONTROLLED STUDY OF ACUPUNCTURE AND SKIN SENSATION	SSS	5R01 GM21099-02	11,351
PERL, EDWARD R.	ADEQUATE STIMULI FOR SPINAL AND PROJECTION MECHANISMS	NEUB	5R01 NS10321-04	73,610
PERL, EDWARD R.	NEURAL BASIS OF EFFECTS PRODUCED BY SPINAL CORD DAMAGE	NSPB	5P01 NS11132-02	265,587
PERLMUTT, JOSEPH H.	NEURAL AND HORMONAL CONTROL OF KIDNEY FUNCTION	CVB	3R01 HL02457-16S1	7,632
PETT, DONALD M.	STRUCTURAL PROTEINS OF ONCOGENIC HUMAN PAPOVAVIRUSES	VR	1R01 CA17270-01	49,824
PIANTADOSI, CLAUDE	ALKOXY AND ALKENYLOXY GLYCERYL ETHERS AND DERIVATIVES	MET	5R01 AM15172-11	11,069
PIANTADOSI, CLAUDE	ROLE OF ETHER AND KETONE LIPIDS IN DEVELOPMENT OF BRAIN	MET	5R01 NS09099-04	26,573
POWELL, DON W.	MECHANISMS OF INTESTINAL SECRETION	PHY	5R01 AM15350-04	30,295
POWELL, DON W.	WATER AND ELECTROLYTE TRANSPORT IN THE ESOPHAGUS	PHY	1R01 AM18576-01	31,884
REILLEY, CHARLES N.	PARAMAGNETIC SHIFTS, T1, T2: BIORELATED STEREOCHEMISTRY	BBCB	2R01 GM12598-09	41,359
RHEINGOLD, HARRIET L.	SOCIAL AND EXPLORATORY BEHAVIOR BY THE INFANT	DBR	2R01 HD01107-12	62,206
RUSTIONI, ALDO	NONPRIMARY AFFERENTS TO THE DORSAL COLUMN NUCLEI	NEUB	1R01 NS12440-01	30,210
SCHAEFER, EARL S.	HOSPITAL AND HOME SUPPORT FOR MATERNAL ATTACHMENT	JP	1R01 HD09003-01	121,297
SHACHTMAN, RICHARD H.	HEALTH AND DEMOGRAPHIC EFFECTS OF INDUCED ABORTION	POP	1R01 HD09028-01	38,185
SHEPS, CECIL G.	STUDY OF CHILD DEVELOPMENT AND MENTAL RETARDATION	HDMR	5P01 HD03110-08	458,636
SMILEY, GARY R.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05333-14	146,266
SPARLING, PHILIP F.	ANTIBIOTIC INHIBITORS OF THE RIBOSOME. II	GEN	5R01 AI09574-05	37,455
SPARLING, PHILIP F.	GENETICS OF THE GONOCOCCUS. II	MBC	2R01 AI10646-04	66,769
SPITZNAGEL, JOHN K.	METABOLIC ASPECTS OF BACTERIAL ECOLOGY IN HOST TISSUES	SSS	2R01 AI02430-17	69,196
STEINER, ALTON L.	PHYSIOLOGIC ROLES OF CYCLIC GMP AND CYCLIC AMP	PHRA	2R01 AM17438-02	78,087
STEUART, GUY W.	HYPERTENSION: FAMILY STRATEGIES FOR PATIENT ADHERENCE	HBP	1R25 HL18414-01	77,010
STUMPF, WALTER E.	PHYLOGENY AND ONTOGENY OF HORMONE NEURONS IN THE BRAIN	END	2R01 NS09914-04	71,306
SWIFT, MICHAEL R.	STUDY OF NEOPLASIA-PREDISPOSING GENES IN MAN	GEN	2R01 CA14235-03A1	66,141
SWIFT, MICHAEL R.	NEOPLASIA-PREDISPOSING GENES IN CELL CULTURE	GEN	5R01 CA15207-02	49,011
TALMAGE, ROY V.	RELATIONSHIP OF CALCITONIN TO PLASMA PHOSPHATE	GMB	5R01 AM14717-05	47,754
TAYLOR, DUANE F.	DENTAL AMALGAMS OF CONTROLLED CONSTITUTION	DEN	2R01 DE03444-10	52,699
THOMAS, COLIN G. JR.	BIOLOGIC CHARACTERISTICS OF THYROID CANCER	SGYA	2R01 CA01915-22	30,536
TWAROG, ROBERT	COMPARATIVE IMMUNOLOGY OF RELATED MORAXELLA PROTEINS	BM	5R01 AI11462-02	27,155
UNDERWOOD, LOUIS E.	THE HORMONAL CONTROL OF FETAL GROWTH	END	5R01 HD08299-02	28,990
VAN WYK, JUDSON J.	ROLE OF ENDOCRINE SECRETIONS IN GROWTH AND DEVELOPMENT	HED	5R01 AM01022-19	70,880
WEAKLY, JAMES N.	MECHANISM OF SPINAL SHOCK	PHY	5R01 NS11268-02	32,735
WELLS, H BRADLEY	EFFECTS OF REPORTING ERRORS ON DEMOGRAPHIC INDICES	POP	1R01 HD08754-01	42,109
WERTZ, GAIL T.	RNA REPLICATION OF VESICULAR STOMATITIS VIRUS	SSS	1R01 AI12464-01	8,247
WHITSEL, BARRY L.	DETERMINANTS OF SOMATIC SENSORY NEURONAL RESPONSES	NEUB	5R01 NS10759-03	29,488
WHITSEL, BARRY L.	SOMATOSENSORY CORTEX: AN INTEGRATIVE STUDY	NEUA	2R01 NS10865-03	57,224
WHITTEN, DAVID G.	PHOTOCHEMICAL STUDIES OF MOLECULAR COMPLEXES	MCHB	5R01 GM15238-08	35,217
WILSON, JOHN E.	BRAIN FUNCTION AND THE METABOLISM OF MACROMOLECULES	NEUB	2R01 NS07457-09A1	64,863
WOLFENDEN, RICHARD V.	CHEMICAL MECHANISMS OF BIOSYNTHESIS	PC	2R01 GM18325-05	62,134
WOODS, JAMES W.	ORAL CONTRACEPTIVES AND HYPERTENSION	GMB	5R01 HD07758-03	21,292
YONCE, LLOYD R.	PULSATILE PRESSURE-FLOW DYNAMICS	CVB	1R01 HL17628-01	45,136
YOUNT, WILLIAM J.	DIFFERENTIATED FUNCTIONS OF HUMAN LYMPHOBLAST	ALY	2R01 AI10327-04A1	79,517
ORGANIZATION TOTAL	142	12,215,601		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>				
<b>CHARLOTTE</b>				
<b>INDIVIDUAL AWARD—PATTERSON, DAVID K      ZIP CODE 28223</b>				
PATTERSON, K DAVID.....	COLONIAL MEDICINE IN THE NORTHERN GOLD COAST.....	SSS	1R01 LM02517-01	5,000
ORGANIZATION TOTAL	1      5,000			
<b>JOHNSON C. SMITH UNIVERSITY      ZIP CODE 28216</b>				
SNYDER, RUTH M.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08022-04	46,465
ORGANIZATION TOTAL	1      46,465			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE      ZIP CODE 28223</b>				
LORD, JERRY D.....	SCHOOL BUSING: A DETERMINANT OF RESIDENTIAL MIGRATION.....	POP	1R01 HD09450-01	20,728
ORGANIZATION TOTAL	1      20,728			
<b>DURHAM</b>				
<b>DUKE UNIVERSITY      ZIP CODE 27706</b>				
ADAMS, DOLPH O.....	TUMORICIDAL EFFECTS OF MACROPHAGES: PATHOLOGIC STUDY.....	PTHA	1R01 CA16784-01	38,778
ADELMAN, MARK R.....	STUDIES ON BIOLOGICAL MOTILITY.....	CBY	5R01 GM20141-03	37,447
AMOS, D BERNARD.....	IMMUNOLOGIC STUDY OF HUMAN HLA AND MOUSE H-2 ANTIGENS.....	SSS	2R01 AI08897-07	239,512
AMOS, D BERNARD.....	CELL MEDIATED IMMUNITY TO ASCITES TUMORS.....	ALY	5R01 CA14049-03	112,920
AMOS, D BERNARD.....	STUDIES ON THE IMMUNOGENETICS OF MAN.....	SSS	2R01 GM10356-12	242,366
ANDERSON, NELS C.....	HORMONAL AND IONIC BASIS OF UTERINE EXCITATION.....	PHY	2R01 HD02742-08	28,339
ANDERSON, NELS C.....	VOLTAGE-CLAMP STUDIES ON SMOOTH MUSCLE.....	PHY	1R01 HD08807-01	15,606
ANDERSON, ROBERT W.....	VENTRICULAR DYSFUNCTION AFTER CARDIAC VALVULAR SURGERY.....	SGYA	1R01 HL18270-01	84,467
ANLYAN, WILLIAM G.....	GENERAL CLINICAL CANCER RESEARCH CENTER.....	CAP	5P02 CA11265-06	467,372
ANLYAN, WILLIAM G.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00030-14	310,808
ANLYAN, WILLIAM G.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05405-14	255,345
APPEL, STANLEY H.....	BIOCHEMICAL STUDIES OF SYNAPSE MEMBRANE.....	NEUB	5R01 NS07872-09	86,222
APPEL, STANLEY H.....	STUDIES IN NEUROMUSCULAR DISEASE.....	NSPB	1P01 NS12213-01	178,657
BALDWIN, STEPHEN W.....	PHOTOCHEMICAL ANNELATIONS WITH A-FORMYL KETONES.....	MCHA	3R01 GM20780-01S1	1,982
BELL, ROBERT M.....	REGULATION OF MEMBRANE PHOSPHOLIPID SYNTHESIS.....	BIO	5R01 GM20015-02	38,567
BIGNER, DARELL D.....	VIROLOGICAL AND IMMUNOLOGICAL STUDIES OF BRAIN TUMORS.....	PTHA	5R01 CA11898-05	68,727
BIGNER, DARELL D.....	IMMUNOCHEMISTRY OF GLIAL BRAIN TUMOR CELLS.....	PTHA	5R01 CA14651-02	50,547
BLUM, JACOB J.....	CONTROL OF METABOLISM IN TETRAHYMENA.....	MET	5R01 HD01269-13	91,541
BOLOGNESI, DANI P.....	TRANSLATION PRODUCTS OF THE RNA TUMOR VIRUS GENOME.....	VR	5R01 CA15071-02	43,261
BONAR, ROBERT A.....	RNA METABOLISM IN NORMAL AND NEOPLASTIC UROTHELIAL CELLS.....	SRC	2R26 CA14930-03	37,918
BONAVENTURA, JOSEPH.....	STUDY OF MOLECULAR ADAPTATIONS OF THE HEMOGLOBIN SYSTEM.....	BBCB	5R01 HL15460-03	62,245
BOYNTON, JOHN E.....	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION.....	GEN	2R01 GM19427-04	101,177
BRODY, IRWIN A.....	BIOCHEMICAL BASIS OF NEUROMUSCULAR DYSFUNCTION.....	NEUB	5R01 NS08741-05	46,924
BRUMLEY, GEORGE W.....	STUDY OF SYNTHESIS OF LUNG LECITHIN.....	CVA	2R01 HD06311-04	81,030
BRUMLEY, GEORGE W.....	FETAL LUNG FLUID—CHARACTERIZATION AND LAVAGE EFFECTS.....	HED	5R01 HL16448-02	50,819
BUCKLEY, REBECCA H.....	CLINICAL STUDY OF ASTHMA AND ALLERGIC DISEASES.....	SRC	5P15 AI12026-02	49,901
BURNS, RICHARD O.....	MOLECULAR MECHANISMS OF BIOLOGICAL CONTROL.....	PC	2R01 GM12551-11A1	67,108
CARPENTER, ADELAIDE T.....	EM OF RECOMBINATION MUTANTS IN DROSOPHILA.....	GEN	1R01 GM22231-01	30,639
CASSEDAY, JOHN H.....	NEURAL MECHANISMS RELATED TO BINAURAL HEARING.....	CMS	1R01 NS12322-01	38,932
CLAPP, JAMES R.....	MICROPUNCTURE STUDY OF RENAL TUBULAR FUNCTION.....	GMB	5R01 AM10844-09	58,131
CLIFFORD, EDWARD.....	HABITILATION OF THE CLEFT PALATE INDIVIDUAL.....	SSS	2P01 DE01899-13	209,736
CLIPPINGER, FRANK W.....	SENSORY FEED-BACK LEG PROSTHESIS FOR CANCER PATIENTS.....	CCG	1R18 CA17945-01	52,501
CREASMAN, WILLIAM T.....	COOPERATIVE STUDY OF NEW GYNCOLOGIC CANCER PATIENTS.....	CCI	5R10 CA12534-05	45,003
DAY, EUGENE D.....	STUDIES OF GLIAL CELL MEMBRANES AND MYELIN.....	IMB	2R01 NS10237-04	78,298
ELFORD, HOWARD L.....	BIBONUCLEOTIDE REDUCTASE IN NEOPLASTIC TRANSFORMATION.....	PHRB	3R01 CA11978-04S1	7,657
ERICKSON, CARL J.....	ENDOCRINE FACTORS IN SOCIAL BEHAVIOR.....	EXP	5R01 HD04482-06	39,536
ESCUETA, ANTONIO V.....	THE EPILEPSIES: NAOK PUMP WITHIN BRAIN SYNAPSES.....	NEUB	5R01 NS11362-02	27,329
EVANS, EVAN A.....	RBC AND ENDOTHELIAL MEMBRANE MATERIAL CHARACTERISTICS.....	CVB	5R01 HL16711-02	29,162
FELLOWS, ROBERT E, JR.....	STRUCTURE AND FUNCTION OF GROWTH HORMONE AND PROLACTIN.....	END	5R01 AM12861-07	58,472
FRIDOVICH, IRWIN.....	THE BIOLOGICAL FUNCTION OF SUPEROXIDE DISMUTASE.....	PC	5R01 GM10287-13	109,520
FRIDOVICH, IRWIN.....	THE BASIS OF OXYGEN TOLERANCE AND TOXICITY.....	PC	1R01 HL17603-01	76,194
FUCHS, JAMES C.....	ARTERIAL BYPASS SURGERY: STRUCTURE AND METABOLISM.....	SGYB	1R01 HL17369-01A1	89,512

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>				
GOLDSMITH, LOWELL A	STRUCTURAL PROTEINS IN GENETIC DEFECTS OF EPIDERMIS	GMA	5R01 AM17253-02	55,839
GOLDSMITH, LOWELL A	FETAL/MATERNAL NUTRITION DETERMINED BY HAIR ANALYSIS	NTN	1R01 AM17977-01	45,617
GOODING, LINDA R	A CELL SURFACE EMBRYONIC TUMOR ANTIGEN BOUND TO H-2	ALY	1R01 CA16802-01	46,955
GRANT, JOHN P	SIMILARITIES OF FETAL AND TUMOR ANTIGENS IN MICE	IMB	1R01 CA16727-01	29,560
GREENE, RONALD C	BIOCHEMISTRY OF SULFONIUM COMPOUNDS	PC	5R01 GM10317-13	43,481
GREENFIELD, JOSEPH C, JR	INSTANTANEOUS BLOOD FLOW IN THE ASCENDING AORTA	CVA	5R01 HL09711-11	43,302
GUILD, WALTER R	FACTORS AFFECTING INTEGRATION OF TRANSFORMING DNA	MBG	1R01 GM21244-01	27,813
GUNN, ROBERT B	MOLECULAR MECHANISMS OF ANION TRANSPORT	PHY	1R01 HL18069-01	66,092
HACKEL, DONALD B	DIABETES MELLITUS IN PSAMMOMYS OBEUS	MET	5R01 AM08949-11	68,172
HACKEL, DONALD B	PATHOLOGIC, METABOLIC, AND PHYSIOLOGIC STUDIES OF HEART	CVB	5R01 HL05875-15	48,151
HAGEN, PER-OTTO F	LIPID BIOSYNTHESIS IN CLOSTRIDIUM BUTYRICUM	PC	5R01 AI10098-05	49,774
HAGEN, PER-OTTO F	SURGICAL AND METABOLIC ASPECTS OF VENOUS GRAFTS	SGYB	5R01 HL15448-03	90,899
HALL, DWIGHT H	ORGANIZATION AND EXPRESSION OF THE GENOME OF PHAGE T4	GEN	2R01 GM16306-07	45,376
HALL, JAMES E	VOLTAGE-DEPENDENT CONDUCTANCE IN MEMBRANES	PHY	1R01 HL17961-01	62,004
HALL, WILLIAM C	STRUCTURE AND FUNCTION OF THE NEOCORTEX	NEUA	5R01 NS09623-05	47,200
HANDWERGER, STUART	THE CHEMISTRY AND PHYSIOLOGY OF PLACENTAL LACTOGEN	HED	5R01 HD07447-02	59,170
HEYMAN, ALBERT	CENTER FOR CEREBROVASCULAR RESEARCH	NSPA	5P01 NS06233-10	284,860
HILL, ROBERT L	STRUCTURE AND FUNCTION OF PROTEINS	BIO	5R01 HL06400-14	146,227
JEFFS, PETER W	BIOSYNTHETICAL STUDIES OF MESEMBRINE	MCHA	5R01 GM19251-06	36,198
JENNINGS, ROBERT B	MYOCARDIAL CELL INJURY	CVA	7R01 HL18833-01	148,693
JOBSIS, FRANS F	MYOCARDIAL ENERGETICS AND METABOLISM IN HYPOXIA	CVA	1R01 HL17391-01	91,781
JOKLIK, WOLFGANG K	MACROMOLECULAR SYNTHESIS IN VIRUS-INFECTED CELLS	SSS	2R01 AI08909-07	192,440
JONES, RAYFORD S	CONTROL OF DUCTULAR AND CANALICULAR BILE PRODUCTION	GMA	5R01 AM16421-02	17,631
KAMIN, HENRY	BIOLOGICAL OXIDATIONS IN MITOCHONDRIA AND MICROSOMES	BIO	3R01 GM21226-14S1	11,971
KELLEY, WILLIAM N	REGULATION OF PURINE METABOLISM IN HUMAN CELLS	MET	5R01 AM14362-05	45,289
KELLEY, WILLIAM N	SPECIFIC POLYSOME ISOLATION IN HUMAN CELLS	MET	5R01 AM16971-02	26,699
KILLENBERG, PAUL G	ENZYMATIC BASIS OF BILE ACID CONJUGATION	SSS	5R01 AM17786-02	47,905
KIM, SUNG-HOU	CRYSTALLINE COMPLEXES OF RNA WITH SMALL MOLECULES	BBCA	5R01 CA15802-02	107,732
KIRSHNER, NORMAN	BIOCHEMISTRY OF THE ADRENAL MEDULLA	PHRA	2R01 AM05427-14	56,990
KIRSHNER, NORMAN	BIOGENESIS OF CATECHOLAMINE STORAGE VESICLES	PHRA	5R01 AM16811-02	46,736
KLINTWORTH, GORDON K	EXPERIMENTAL APPROACH TO DISEASES OF THE CORNEA	VIS	3R01 EY00146-03S1	4,660
KLINTWORTH, GORDON K	EXPERIMENTAL APPROACH TO DISEASES OF THE CORNEA	VISA	2R01 EY00146-04	34,791
KREDICH, NICHOLAS M	REGULATION OF CYSTEINE BIOSYNTHESIS	MBG	2R01 AM12828-07	61,478
KREMER, WILLIAM B	SOUTHEASTERN CANCER STUDY GROUP	CCI	3R10 CA00564-14S1	10,653
KREMER, WILLIAM B	COOPERATIVE STUDY OF CANCER	CCI	2R10 CA00564-15	36,666
LACK, LEON	PHARMACOLOGY OF INTESTINAL BILE SALT TRANSPORT	PHRA	5R01 AM09582-12	66,024
LANG, DAVID J	PERSISTENT CONGENITAL AND NEONATAL VIRUS INFECTIONS	VR	2R01 HD04183-05	68,898
LAZLO, JOHN	MECHANISMS OF DRUG INHIBITION OF HUMAN LEUKEMIC CELLS	SSS	5R01 CA08800-09	83,274
LAZARUS, GERALD S	MECHANISMS OF PROTEOLYSIS IN HUMAN SKIN	GMA	7R01 AM19067-01	52,408
LEBOVITZ, HAROLD E	HORMONES AND INTERMEDIARY METABOLISM	END	2R01 AM01324-19A1	85,346
LEFKOWITZ, ROBERT J	MOLECULAR PROPERTIES OF CARDIAC ADRENERGIC RECEPTORS	PHRA	5R01 HL16037-02	60,384
LEIS, JONATHAN P	TRANSCRIPTION AND TRANSLATION OF TUMOR VIRUS RNA	VR	5R01 CA14787-02	32,182
LEVY, NELSON L	ACTIVE IMMUNITY TO HUMAN & EXPERIMENTAL BRAIN TUMORS	PTHA	3R01 CA13070-03S1	4,630
LEVY, NELSON L	IMMUNITY TO HUMAN CANCER-FUNCTIONAL COMPONENTS	PTHA	2R01 CA13070-04	94,810
LYNN, WILLIAM S	INSULIN ACTION ON THE FAT CELL PLASMA MEMBRANE	MET	5R01 AM16385-02	35,676
MADDOX, GEORGE L	AN INTEGRATED INVESTIGATION OF AGING AND THE AGED	HDAG	2P01 HD00668-17	499,391
MADDOX, GEORGE L	CENTER FOR THE STUDY OF AGING AND HUMAN DEVELOPMENT	HDAG	5P01 HD06224-03	240,425
MAHALEY, MOSES S, JR	BRAIN TUMOR RESEARCH UNIT: SCREENING MODEL	ET	5R01 CA15093-02	47,413
MANDEL, LAZARO J	MECHANISMS OF ACTIVE AND PASSIVE SOLUTE TRANSPORT	PHY	3R01 AM16024-03S1	9,795
MANDEL, LAZARO J	OXIDATIVE METABOLISM AND ACTIVE TRANSPORT	PHY	1R01 AM17876-01	63,501
MANSBACH, CHARLES M	CHYLOMICRON LECITHIN: PATHWAYS OF ORIGIN IN INTESTINE	GMA	5R01 AM17526-02	38,362
MC CARTY, KENNETH S	RAPIDLY LABELED RNA ASSOCIATED WITH NUCLEAR RIBOSOMES	PC	3R01 GM12805-10S1	5,520
MC CORD, JOE M	ROLE OF SUPEROXIDE AND SUPEROXIDE DISMUTASE IN DISEASE	BIO	5R01 AM17091-02	36,271
MC KEE, PATRICK A	STRUCTURE-FUNCTION RELATION OF BLOOD CLOTTING PROTEIN	PC	5R01 HL15615-03	89,931
MC KINNEY, JOHN C	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07070-10	39,741
MENDELL, LORNE M	MECHANISMS OF PLASTICITY IN NEURONAL CONNECTIONS	NEUB	5R01 NS08411-07	39,643
MENZEL, DANIEL B	ROLE OF INFLAMMATORY HORMONES IN CHRONIC LUNG DISEASE	PHRA	5R01 HL16264-02	51,868
METZGAR, RICHARD S	IMMUNOLOGICAL STUDIES OF PRIMATE MEMBRANE ANTIGENS	IMB	2R01 AM08054-12	66,627
METZGAR, RICHARD S	HUMAN LEUKEMIA ASSOCIATED ANTIGENS	IMB	2R01 CA08975-09	120,126
MICKEY, DON D	DETECTION OF C-TYPE VIRAL ANTIGENS IN HUMAN BLADDER	SRC	2R26 CA15292-03	45,427

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>				
MILLER, DONALD S.	IMMUNOTHERAPY AND IMMUNODIAGNOSIS OF HUMAN LEUKEMIA	ET	1R01 CA16320-01	58,924
MOORE, JOHN W.	PHYSIOLOGY AND PHARMACOLOGY OF EXCITABLE MEMBRANES	PHY	5R01 NS03437-14	105,997
MOORE, JOHN W.	COMPUTER METHODS FOR PHYSIOLOGICAL PROBLEMS	COM	1R01 NS11613-01A1	89,897
NARAHASHI, TOSHIO	ELECTROPHYSIOLOGICAL MODE OF ACTION OF INSECTICIDES	TOX	3R01 NS06855-08S1	18,051
NARAHASHI, TOSHIO	ELECTROPHYSIOLOGICAL MODE OF ACTION OF INSECTICIDES	TOX	2R01 NS06855-09	101,401
NARAHASHI, TOSHIO	CELLULAR PHARMACOLOGY OF NEUROMUSCULAR TRANSMISSION	PHRA	5R01 NS09272-05	56,994
NARAHASHI, TOSHIO	CELLULAR NEUROPHARMACOLOGICAL STUDY OF DRUG ACTION	PHRA	5R01 NS10823-03	91,267
NICHOLS, JACK L.	NUCLEOTIDE SEQUENCES IN VIRAL RNA	VR	5R01 AI10361-05	64,759
NICKLAS, R. BRUCE	ANALYSIS AND CONTROL OF CHROMOSOME MOVEMENT	CBY	5R01 GM13745-10	42,417
NORTON, THOMAS T.	NEURAL MECHANISMS OF DEVELOPING VISION	VISB	5R01 EY01085-03	28,563
PAULSON, DAVID F.	BIOCHEMISTRY OF NORMAL AND ABNORMAL RENAL GROWTH	PTHA	3R01 AM15756-03S1	16,583
PAULSON, DAVID F.	TISSUE CULTURE OF MAMMALIAN UROTHELIUM	SRC	5R26 CA15972-02	38,071
PINNELL, SHELDON R.	THE COLLAGEN AND ELASTIN OF CONNECTIVE TISSUE DISEASE	GMA	5R01 AM17128-02	35,902
PORTER, F. STANLEY	STUDIES OF IRON LOADING IN SICKLE CELL DISEASE	HCM	5R01 AM17338-02	38,615
PORTER, F. STANLEY	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP	CCI	2R10 CA15525-02	29,828
PORTER, NED A.	PEROXY RADICALS AND PROSTAGLANDINS IN VESSELS & LUNG	MCHA	1R01 HL17921-01	61,877
QUARFORDT, STEVEN H.	APOPROTEINS OF HUMAN TRIGLYCERIDE RICH LIPOPROTEINS	MET	2R01 HL14313-04	59,429
QUIN, LOUIS D.	ORGANOPHOSPHOROUS COMPOUNDS FOR ANTICANCER SCREENING	MCHB	5R01 CA05507-15	45,720
RAJAGOPALAN, K. V.	STRUCTURE AND FUNCTION OF ENZYMES-ROLE OF METALS	PC	5R01 GM00091-30	104,090
REEDY, MICHAEL K.	MYOFIBRILLAR FINE STRUCTURE IN STRIATED MUSCLE	BBCB	2R01 AM14317-06	92,257
REYNOLDS, JACQUELINE A.	INTERACTIONS OF STEROLS IN BIOLOGICAL SYSTEMS	BBCB	5R01 HL14882-03	46,280
RICHARDSON, DAVID C.	CRYSTALLOGRAPHIC ANALYSIS OF PROTEIN STRUCTURES	BBCB	3R01 GM15000-06A1S2	12,275
ROBERTSON, J. DAVID	BIOPHYSICAL AND BIOCHEMICAL STUDIES OF CELLULAR MEMBRANE	NSPA	5P01 NS10299-04	278,360
ROBINSON, ROSCOE R.	THE KIDNEY IN HEALTH AND DISEASE	AMP	5P01 AM17195-02	159,557
ROSENTHAL, MYRON	IN SITU STUDIES OF DRUG ACTIONS ON CNS METABOLISM	PHRA	2R01 NS10384-04	61,723
ROSSE, WENDELL F.	IMMUNOLOGICAL LYSIS IN NEOPLASTIC DISEASE	IMB	5R01 CA10267-09	71,934
SABISTON, DAVID C., JR.	CORONARY INSUFFICIENCY AND MYOCARDIAL REVASCULARIZATION	SGYB	2R01 HL09315-12	107,787
SALZANO, JOHN V.	REGULATION OF RESPIRATORY ACTIVITY	CVA	2R01 HL13888-13A1	36,529
SANDERS, AARON P.	LUNG O <sub>2</sub> TOXICITY: METABOLISM, PATHOLOGY AND RECOVERY	PTHA	5R01 HL16758-02	72,681
SAVITT, TODD L.	THE HEALTH CARE OF BLACKS IN THE ANTEBELLUM SOUTH	HLS	7R01 LM02477-01	23,285
SCHIFFMAN, SUSAN S.	GUSTATORY AND OLFACTORY QUALITY CHANGES WITH AGE	EXP	2R01 HD06853-03	44,926
SCHMIDT-NIELSEN, KNUD	WATER METABOLISM, TEMPERATURE REGULATION, AND EXERCISE	PHY	5R01 HL02228-20	115,306
SCOTT, DAVID W.	MECHANISM OF IMMUNOLOGIC TOLERANCE IN VIVO AND IN VITRO	IMB	2R01 AI10716-04	68,759
SEALY, WILL C.	STUDY OF CARDIOVASCULAR AND PULMONARY DISORDERS	SGYB	5R01 HL01782-20	80,331
SEALY, WILL C.	EXPANDING THE ROLE OF SURGERY OF ATRIAL DYSRHYTHMIAS	SGYA	2R01 HL13920-04A1	61,191
SHINGLETON, WILLIAM W.	COOPERATIVE STUDY OF ONCOLOGY	CCI	5R10 CA12290-05	41,950
SHINGLETON, WILLIAM W.	COMPREHENSIVE CANCER CENTER SUPPORT GRANT	CAP	5P01 CA14236-02	1,323,095
SHINGLETON, WILLIAM W.	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17987-01	121,045
SHRIVASTAV, BRIJ B.	EFFECTS OF NEUROACTIVE AGENTS ON NERVE CONDUCTION	PHR	5R01 GM21724-02	58,843
SIDBURY, JAMES B., JR.	STUDY OF INBORN ERRORS OF METABOLISM	MET	5R01 AM06815-13	60,709
SIDBURY, JAMES B., JR.	DEVELOPMENTAL STUDIES OF BETA-CRYSTALLIN RE CATARACTS	VISA	1R01 EY01607-01	54,343
SIEGEL, LEWIS M.	STUDIES ON SELECTED METALLOFLAVOPROTEINS	PC	2R01 AM13460-04	33,274
SILBERMAN, HAROLD R.	SOUTHEASTERN CANCER STUDY GROUP	CCI	3R10 CA03177-18S1	11,471
SILBERMAN, HAROLD R.	COOPERATIVE STUDIES IN CANCER CHEMOTHERAPY	CCI	2R10 CA03177-19	49,263
SILVER, DONALD	SURGICAL VASCULAR DISORDERS	SGYB	5R01 HL08929-11	136,122
SMITH, RALPH E.	BIOCHEMISTRY OF RNA TUMOR VIRUS REPLICATION	VR	5R01 CA12323-05	61,636
SNYDERMAN, RALPH	HUMORAL AND CELLULAR MEDIATORS OF INFLAMMATION	ALY	5R01 DE03738-03	62,113
SOMJEN, GEORGE G.	VISUAL DISCRIMINATION AND RECEPTIVE FIELDS OF NEURONS	NEUB	5R01 NS10507-03	32,069
SOMJEN, GEORGE G.	CELLULAR SEIZURE MECHANISMS	NEUB	1R01 NS11933-01	46,476
SOMMER, JOACHIM R.	STRUCTURE-FUNCTION CORRELATION IN THE ATRIUM	CVA	2R01 HL12486-07	84,336
SOMMER, JOACHIM R.	COMPARATIVE STEREOLOGY OF THE MYOCARDIUM	CVA	5R01 HL15888-02	38,235
SPACH, MADISON S.	BIOPHYSICAL STUDIES IN PEDIATRIC CARDIOLOGY	HEP	5P01 HL11307-09	484,164
STICHEL, DELFORD L.	CLINICAL HOMOTRANSPLANTATION OF TISSUES AND ORGANS	AMP	5P01 AM13084-11	220,440
TANFORD, CHARLES	PROTEIN INTERACTIONS AND BIOLOGICAL FUNCTION	BBCA	5R01 AM04576-15	139,374
THURSTONE, FREDRICK L.	DYNAMIC CARDIOVASCULAR MEASUREMENT USING ULTRASOUND	RAD	3R01 HL12715-06S1	14,603
TISHER, C. CRAIG	WATER AND ELECTROLYTE MOVEMENT IN RENAL TUBULES	GWB	5R01 AM13845-06	80,479
TOSTESON, DANIEL C.	FUNCTIONS AND MECHANISM OF CELL MEMBRANE ION TRANSPORT	HEP	5P01 HL12157-08	874,889
TOURIAN, ARA Y.	PHENYLALANINE HYDROXYLASE: PKU DETECTION	MET	5R01 AM14834-05	46,858
VANAMAN, THOMAS C.	THE ROLE OF BRAIN SPECIFIC PROTEINS IN NERVE FUNCTION	PC	5R01 NS10123-05	72,694
VERGARA, JUAN A.	ULTRASTRUCTURE OF NORMAL AND NEOPLASTIC UROTHELIUM	SRC	2R26 CA14926-03	41,912



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>				
WALLACE, ANDREW G.....	ELECTROPHYSIOLOGY OF THE DENERVATED HEART.....	CVB	5R01 HL08845-11	71,167
WALLACE, ANDREW G.....	PHYSIOLOGICAL BASIS OF ARRHYTHMIAS AND THEIR THERAPY.....	CVB	5R01 HL15190-03	89,946
WALLACE, ANDREW G.....	STUDY OF ISCHEMIC HEART DISEASE.....	SRC	1P17 HL17670-01	778,119
WARD, FRANCES E.....	HISTOCOMPATIBILITY ANTIGENS IN A BLACK POPULATION.....	IMB	5R01 AI12155-02	28,403
WEBSTER, ROBERT E.....	SYNTHESIS AND INTERACTION OF SPECIFIC MEMBRANE PROTEINS.....	MCB	2R01 GM18305-04	57,777
WELLS, SAMUEL A.....	FAMILIAL POLYPOSIS: A CLINICAL AND IMMUNOLOGICAL STUDY.....	SRC	5R26 CA16724-02	84,790
WILBUR, KARL M.....	CALCIFICATION MECHANISMS.....	CBY	5R01 DE01382-15	59,130
WOLFE, WALTER G.....	RECOVERY OF LUNG FUNCTION FOLLOWING OXYGEN POISONING.....	SGYB	5R01 HL15877-02	36,221
WOODBURY, MAX A.....	QUANTITATIVE DESCRIPTIONS OF DISEASE.....	COM	2R01 GM16725-07	87,447
WYNGAARDEN, JAMES B.....	PURINE METABOLISM IN GOUT.....	MET	5R01 AM12413-08	100,985
ZWEERINK, HENDRIK J.....	REPLICATION AND ENCAPSIDATION OF REOVIRUS RNA.....	VR	5R01 AI10132-05	58,884
ORGANIZATION TOTAL	173 16,121,514			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—NORTH CAROLINA CENTRAL UNIVERSITY ZIP CODE 27707</b>				
PATTILLO, WALTER H, JR.....	MINORITY SCHOOLS BIOMEDICAL SUPPORT PROGRAM.....	GRS	5S06 RR08049-04	107,801
ORGANIZATION TOTAL	1 107,801			
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 27705</b>				
PAULSON, DAVID F.....	COOPERATIVE STUDY, RADIOTHERAPY OF PROSTATIC CANCER.....	CCI	5R10 CA14940-02	321,623
ORGANIZATION TOTAL	1 321,623			
<b>ELIZABETH CITY</b>				
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—ELIZABETH CITY STATE UNIVERSITY ZIP CODE 27909</b>				
KHAN, SEKENDER A.....	RESEARCH IMPROVEMENT AND DEVELOPMENT PROGRAM.....	GRS	3S06 RR08087-01S2	2,520
ORGANIZATION TOTAL	1 2,520			
<b>GREENSBORO</b>				
<b>BENNETT COLLEGE ZIP CODE 27420</b>				
SAYLES, J HENRY.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08028-04	29,716
ORGANIZATION TOTAL	1 29,716			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY ZIP CODE 27411</b>				
BENNETT, RICHARD.....	DEVELOPMENT OF A PROGRAM IN BIOMEDICAL RESEARCH.....	GRS	5S06 RR08019-04	140,924
ORGANIZATION TOTAL	1 140,924			
<b>GREENVILLE</b>				
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—EAST CAROLINA UNIVERSITY ZIP CODE 27834</b>				
BURDEN, HUBERT W.....	OVARIAN NERVES AND REPRODUCTIVE FUNCTION.....	REB	1R01 HD06899-01A1	48,915
ORGANIZATION TOTAL	1 48,915			
<b>RALEIGH</b>				
<b>NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES ZIP CODE 27611</b>				
GOTTLIEB, GILBERT.....	SENSORY AND PERCEPTUAL DETERMINANTS OF IMPRINTING.....	EXP	5R01 HD00878-14	20,443
ORGANIZATION TOTAL	1 20,443			
<b>SHAW UNIVERSITY ZIP CODE 27602</b>				
GHOSH, KALYAN K.....	BIOMEDICAL RESEARCH AND RESEARCH TRAINING.....	GRS	5S06 RR08001-04	74,136
ORGANIZATION TOTAL	1 74,136			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—NORTH CAROLINA STATE UNIVERSITY AT RALEIGH ZIP CODE 27607</b>				
BORDER, JON.....	STRUCTURES OF COMPOUNDS OF REPRODUCTIVE INTEREST.....	BBCA	1R01 HD09548-01	39,532
COCKERHAM, C CLARK.....	QUANTITATIVE GENETICS RESEARCH PROGRAM.....	GMP	5P01 GM11546-12	406,936
DONALDSON, WILLIAM E.....	EMBRYONIC FATTY ACID METABOLISM.....	MET	5R01 HD02887-06	23,022
DROESSLER, EARL G.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07071-10	40,993
GUTHRIE, FRANK E.....	STUDY OF MECHANISMS OF PESTICIDE ACTION.....	SSS	5P01 ES00044-11	266,901

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>				
LEVERE, THOMAS E.....	THE NATURE OF BEHAVIORAL RECOVERY AFTER BRAIN DAMAGE.....	EXP	1R01 NS12459-01	26,408
LONGMUIR, IAN S.....	GRADIENT AND TRANSPORT OF OXYGEN IN TISSUE AND ORGANS.....	CVA	1R01 HL16828-01	62,859
MANNING, CHARLES R, JR.....	CERAMIC-METAL COMPOSITES FOR BIOMEDICAL APPLICATIONS.....	DEN	5R01 DE03262-04	48,206
SCANDALIOS, JOHN G.....	A SYSTEM FOR ANALYSIS OF DIFFERENTIAL GENE EXPRESSION.....	GEN	1R01 GM22733-01	59,281
TOVE, SAMUEL B.....	METABOLISM OF UNSATURATED FATTY ACIDS.....	MET	5R01 AM02483-17	70,919
TOVE, SAMUEL B.....	COPPER PROTEINS AND CU INTERACTIONS IN METABOLISM.....	NTN	5R01 AM13055-07	40,021
ORGANIZATION TOTAL	11		1,085,078	
<b>RESEARCH TRIANGLE PARK</b>				
<b>RESEARCH TRIANGLE INSTITUTE</b>	<b>ZIP CODE 27709</b>			
COOK, CLARENCE E.....	SYNTHESIS OF STRIGOL, A POTENT PLANT LACTONE.....	MCHB	1R01 GM19630-01	21,366
ROSENTHAL, DAVID.....	MASS SPECTROMETRY CENTER FOR RESEARCH TRIANGLE REGION.....	MCHB	5P07 RR00330-08	117,672
ORGANIZATION TOTAL	2		139,038	
<b>WILMINGTON</b>				
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT WILMINGTON</b>	<b>ZIP CODE 28401</b>			
LUNDEEN, CARL V.....	NITROGEN METABOLISM AND THE PLANT NEOPLASTIC STATE.....	PC	5R01 CA15917-02	23,384
ORGANIZATION TOTAL	1		23,384	
<b>WINSTON-SALEM</b>				
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—WINSTON-SALEM STATE UNIVERSITY</b>	<b>ZIP CODE 27102</b>			
ATKINSON, WILVERIA B.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08040-04	48,730
DODGE, WILLIAM H.....	NORMAL AND LEUKEMIC GRANULOPOIESIS.....	HEM	1R01 CA17574-01	26,131
ORGANIZATION TOTAL	2		74,861	
<b>WAKE FOREST UNIVERSITY</b>	<b>ZIP CODE 27109</b>			
ACTON, JEAN D.....	EFFECT OF NO2-INDUCED LESIONS IN LUNG MACROPHAGES.....	TOX	5R01 ES00839-02	37,651
BO, WALTER J.....	ESTROGEN-LIKE EFFECT OF THE IUD ON THE UTERUS.....	REB	2R01 HD06210-04	40,566
BUCKALEW, VARDAMAN M, JR.....	STUDIES OF A HUMORAL INHIBITOR OF SODIUM TRANSPORT.....	GMB	5R01 AM17341-02	44,988
CLARKSON, THOMAS B.....	SUPPORT FOR ARTERIOSCLEROSIS RESEARCH CENTER.....	SRC	5P17 HL14164-05	825,208
CLARKSON, THOMAS B.....	A RESOURCE FOR THE STUDY OF NONHUMAN PRIMATES.....	PME	1P06 RR00919-01	132,203
COWGILL, ROBERT W.....	THE FUNCTIONS OF PARAMYOSIN IN MUSCLE CONTRACTION.....	BBCA	1R01 AM18411-01	40,702
DE CHATELET, LAWRENCE R.....	PATHOPHYSIOLOGY AND METABOLISM OF THE LEUKOCYTE.....	BM	2R01 AI10732-04	63,190
DREXLER, HENRY.....	HOST-CONTROLLED VARIATION AND TRANSDUCTION WITH T1.....	VR	5R01 AI07107-08	18,837
GREEN, HAROLD D.....	VASOMOTOR TONE AND VENOUS RETURN.....	CVA	5R01 HL00487-26	101,321
GREISS, FRANK C, JR.....	UTERINE BLOOD FLOW AND CHANGES IN PREGNANCY.....	CVA	5R01 HL03941-16	66,960
GROVES, DAVID L.....	REGULATION OF THE ANTIBODY RESPONSE.....	PTHA	1R01 AI12415-01	58,409
HERNDON, C NASH.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00336-09	209,902
HERNDON, C NASH.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05044-14	188,179
HUTCHINS, PHILLIP M.....	MICROVASCULAR RESPONSES IN HYPERTENSION.....	CVB	2R01 HL13936-04A1	45,071
KREGER, ARNOLD S.....	PATHOGENESIS OF PSEUDOMONAS CORNEAL INFECTION.....	BM	5R01 EY01104-03	29,796
NUCERA, LOUIS S.....	VIRUS ASSOCIATED NEOPLASMS.....	VR	2R01 CA12382-04	47,068
LORENTZ, WILLIAM B, JR.....	MECHANISM OF CYCLIC AMP EFFECT ON RENAL TRANSPORT.....	GMB	5R01 AM17855-02	38,622
MC CALL, CHARLES E.....	FUNCTIONAL & METABOLIC PROPERTIES OF TOXIC NEUTROPHILS.....	ALY	5R01 AI09169-05	25,619
MC CORMICK, JAMES G.....	DEAFNESS AND ATHEROSCLEROSIS.....	CMS	1R01 NS12013-01	80,648
MILLER, INGLIS J, JR.....	MECHANISMS OF TASTE RECEPTOR INTERACTION.....	CMS	2R01 NS10389-04	25,804
MYRVIK, QUENTIN N.....	INTERACTION OF ALVEOLAR MACROPHAGES AND MYCOBACTERIA.....	BM	5R01 AI05663-12	27,342
PEARCE, LARRY A.....	ASPIRIN IN CEREBRAL ISCHEMIA—JOINT STUDY.....	TEC	5R01 HL14372-03	24,081
RAPELA, CARLOS E.....	CEREBRAL BLOOD FLOW, HUMORAL, DRUG, NERVOUS CONTROL.....	NEUA	1R01 NS11953-01	47,977
REMY, CHARLES N.....	CHARACTERIZATION OF RIBOSOMAL RNA METHYLASES.....	PC	5R01 CA11854-05	31,299
RICHARDSON, STEPHEN H.....	BIOLOGY OF V. CHOLERA/E. COLI VIRULENCE.....	BM	2R22 AI07772-09	45,697
SKINNER, NEWMAN S, JR.....	REGULATION OF SKELETAL MUSCLE BLOOD FLOW.....	CVB	3R01 HL15562-02S1	1,616
SKINNER, NEWMAN S, JR.....	REGULATION OF SKELETAL MUSCLE BLOOD FLOW.....	CVB	2R01 HL15562-03	53,750
SPURR, CHARLES L.....	COOPERATIVE STUDY OF ACUTE LEUKEMIA.....	CCI	3R10 CA03927-17S2	650
SPURR, CHARLES L.....	COOPERATIVE STUDY OF ACUTE LEUKEMIA.....	CCI	2R10 CA03927-18	94,323
SPURR, CHARLES L.....	LEUKEMIA CENTER (PLATELET) PROGRAM - ALGB.....	CCI	5R10 CA11845-17	86,536

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>				
SPURR, CHARLES L.....	CANCER CENTER SUPPORT GRANT (SPECIALIZED).....	CAP	2P01 CA12197-04	545,947
ST CLAIR, RICHARD W.....	ATHEROSCLEROSIS THERAPY AND CHOLELITHIASIS.....	NTN	5R01 AM17369-02	56,927
TOOLE, JAMES F.....	CEREBROVASCULAR RESEARCH (TRANSIENT ISCHEMIA ATTACKS).....	NSPA	5P01 NS06655-10	186,012
TOOLE, JAMES F.....	STROKE ACUTE CARE RESEARCH UNIT.....	NSPA	5P17 NS11101-03	86,159
TURNER, JAMES E.....	REGENERATIVE REPAIR IN THE CENTRAL NERVOUS SYSTEM.....	NEUA	1R01 NS12070-01	42,242
WAITE, B MOSELEY.....	METABOLISM OF LIVER MEMBRANE PHOSPHOLIPIDS.....	SSS	3R01 AM11799-07S1	14,497
WAITE, B MOSELEY.....	METABOLISM AND FUNCTION OF MEMBRANE PHOSPHOLIPIDS.....	BIO	2R01 AM11799-08A1	78,381
WAITE, B MOSELEY.....	LYSOPHOSPHOLIPID METABOLISM OF NEOPLASIAS.....	PC	5R01 CA14318-02	32,185
WITCFSKI, RICHARD L.....	ULTRASONIC ENHANCEMENT OF CANCER RADIOTHERAPY.....	RAD	1R01 CA17581-01	35,275
ORGANIZATION TOTAL	39	3,611,640		
STATE TOTAL	381	34,089,387		
<b>NORTH DAKOTA</b>				
<b>BELCOURT</b>				
<b>TURTLE MOUNTAIN BAND OF CHIPPEWA TRIBAL COUNCIL ZIP CODE 58316</b>				
GAILFUS, PATRICIA.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08126-02	49,891
ORGANIZATION TOTAL	1	49,891		
<b>FARGO</b>				
<b>NORTH DAKOTA STATE UNIVERSITY ZIP CODE 58103</b>				
TALLMAN, DENNIS E.....	RELAXATION KINETIC STUDIES OF METAL REQUIRING ENZYMES.....	BBCA	5R01 AM17007-02	20,189
ORGANIZATION TOTAL	1	20,189		
<b>GRAND FORKS</b>				
<b>UNIVERSITY OF NORTH DAKOTA ZIP CODE 58201</b>				
DUERRE, JOHN A.....	BRAIN HISTONE METHYLASES.....	BIO	2R01 NS09725-04A1	32,177
LEE, YA P.....	GLYCEROL-3P DEHYDROGENASES IN CARDIOVASCULAR SYSTEM.....	BIO	1R01 HL17432-01	27,893
LOW, FRANK N.....	FINE STRUCTURAL LINING OF THE SUBARACHNOID SPACE.....	NEUA	5R01 NS09363-05	54,338
LOW, FRANK N.....	MICROAPPENDAGES OF THE PLASMALEMMA.....	NEUA	1R01 NS12106-01	39,060
NORDLIE, ROBERT C.....	LIVER PYROPHOSPHATE-PHOSPHOTRANSFERASE ACTIVITIES.....	BIO	5R01 AM07141-12	54,937
STENBERG, VIRGIL I.....	ALKALOID CHEMISTRY.....	MCHA	1R01 GM21590-01	36,940
STEWART, JAMES A.....	IONIC STRENGTH AND DIELECTRIC EFFECTS ON CHYMOTRYPSIN.....	BBCA	5R01 GM16167-07	15,371
VENNES, JOHN W.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05407-14	26,955
ORGANIZATION TOTAL	8	287,671		
STATE TOTAL	10	357,751		
<b>OHIO</b>				
<b>AKRON</b>				
<b>AKRON CITY HOSPITAL ZIP CODE 44309</b>				
SHARP, WILLIAM V.....	PROMOTION OF A VIABLE ANTITHROMBOGENIC INTERFACE.....	SGYB	5R01 HL13712-03	47,708
ORGANIZATION TOTAL	1	47,708		
<b>CHILDREN'S HOSPITAL OF AKRON ZIP CODE 44308</b>				
FREEMAN, AARON E.....	CELL CULTURE AUTOGRAFTING OF BURNED & TRAUMATIZED SKIN.....	PTHA	1R01 GM21929-01	68,544
ORGANIZATION TOTAL	1	68,544		
<b>UNIVERSITY OF AKRON ZIP CODE 44325</b>				
CARDARELLI, NATHAN F.....	CHRONIC EFFECTS OF ULTRALOW TOXICANT CONCENTRATIONS.....	TMP	1R22 AI11861-01A1	36,187



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
CHU, MAMERTO L.....	ACOUSTICAL PATTERN RECOGNITION OF KNEE JOINT DISEASES.....	RAD	2R01 AM15697-03	62,605
LEDINKO, NADA.....	EFFECTS OF TUMORIGENIC ADENOVIRUS ON CELLS.....	VR	5R01 CA13231-04	72,856
ORGANIZATION TOTAL	3 171,648			
<b>ATHENS</b>				
<b>OHIO UNIVERSITY ZIP CODE 45701</b>				
ALMLI, C ROBERT.....	ONTOGENY OF REACTIVITY TO DIPSOGENIC STIMULI.....	EXP	5R01 HD08504-02	14,282
ROMOSER, WILLIAM S.....	THE REGULATION OF BUOYANCY IN MOSQUITO PUPAE.....	TMP	1R01 AI12641-01	20,327
SOLTOW, LEE C.....	CHILDREN AND INHERITANCE OF WEALTH.....	POP	5R01 HD07619-02	22,810
SULLIVAN, PAUL B.....	CATION RADICALS IN BENZOPYRENE-12 AND RELATED SYSTEMS.....	MCHB	1R01 CA16614-01	27,414
WAGNER, THOMAS E.....	MATURE SPERM CHROMOSOMES: STRUCTURE AND RELEASE MODE.....	REB	1R01 HD09042-01	33,202
ORGANIZATION TOTAL	5 118,035			
<b>BOWLING GREEN</b>				
<b>BOWLING GREEN STATE UNIVERSITY ZIP CODE 43404</b>				
MC KEEVER, WALTER F.....	LATERAL DOMINANCE AND LATERAL WORD RECOGNITION.....	EXP	2R01 NS10214-03	13,376
NAGY, Z MICHAEL.....	ONTOGENY OF LEARNING AND MEMORY.....	EXP	1R01 HD09145-01	38,067
PANKSEPP, JAAK.....	MEDIAL HYPOTHALAMIC REGULATION OF FEEDING BEHAVIOR.....	EXP	5R01 AM17157-02	27,357
SCOVELL, WILLIAM M.....	THE INFLUENCE OF METAL COMPLEXES ON DNA.....	BBCA	5R01 CA16968-02	19,364
ORGANIZATION TOTAL	4 98,164			
<b>CINCINNATI</b>				
<b>CHILDREN'S HOSPITAL MEDICAL CENTER ZIP CODE 45229</b>				
BERRY, HELEN K.....	BIOCHEMICAL AND BEHAVIORAL STUDIES OF PHENYLKETONURIA.....	MET	5R01 HD00324-20	49,010
BERRY, HELEN K.....	PHENYLALANINE HYDROXYLASE ACTIVITY IN MAMMALIAN TISSUES.....	MET	2R01 HD06018-04	44,749
CLARK, LELAND C, JR.....	NEW OXYGEN CARRYING RADIOPAQUE FLUOROCARBONS.....	RAD	1R01 GM21475-01	42,229
CLARK, LELAND C, JR.....	THE PHYSIOLOGY OF PERFLUOROCEMICALS IN THE LUNG.....	CVA	1R01 HL17353-01	47,435
CLARK, LELAND C, JR.....	PERFLUORODECALIN EMULSIONS AS ARTIFICIAL BLOOD.....	SGYB	1R01 HL17587-01	97,679
DONALDSON, VIRGINIA H.....	HYDROLYTIC ENZYMES OF BLOOD IN HEALTH AND DISEASE.....	HEM	5R01 HL15690-03	78,492
GANSCHOW, ROGER E.....	GENETIC CONTROL OF MAMMALIAN ENZYME EXPRESSION.....	GEN	5R01 AM14770-05	58,411
GASTON, MARILYN.....	SUPPORT FOR CENTER FOR SICKLE CELL ANEMIA.....	SRC	5P18 HL15996-03	255,268
PARTIN, JOHN C.....	ROLE OF MICROVILLUS DENSE BODIES IN CALCIUM ABSORPTION.....	GMB	5R01 AM16383-02	19,587
PARTIN, JOHN C.....	LIPID COMPOSITION OF CULTURED HUMAN SKIN FIBROBLASTS.....	PTHB	5R01 AM16398-02	36,031
PRATT, EDWARD L.....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.....	CLR	5M01 RR00123-12	275,752
PRATT, EDWARD L.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05535-13	140,916
SOUKUP, SHIRLEY W.....	EARLY CHANGES IN POTENTIAL BRAIN TUMOR TISSUE OF THE RAT.....	PTHA	1R01 CA18588-01	11,485
VALLOTA, ENRIQUE H.....	BIOCHEMISTRY AND BIOLOGICAL FUNCTIONS OF C3A AND C5A.....	ALY	1R01 AI12417-01	49,249
WARKANY, JOSEF.....	STUDY OF MENTAL RETARDATION.....	HDMR	5P01 HD05221-06	365,733
WEST, CLARK D.....	STUDY OF SERUM C3 INACTIVATOR IN NEPHRITIS.....	ALY	5R01 AM13572-06	30,831
WILSON, JAMES G.....	CELL DEATH AND REDUCED BIOSYNTHESIS IN TERATOGENESIS.....	HED	5R01 HD06526-04	46,839
ZIMMERMAN, ERNEST F.....	TERATOGENS ON CLEFT PALATE FORMATION.....	HED	2R01 DE03469-04	75,084
ZIMMERMAN, ERNEST F.....	STUDY OF FETAL MOUSE MYOSIN.....	SSS	5R01 HD08679-02	45,844
ORGANIZATION TOTAL	19 1,770,624			
<b>CHRIST HOSPITAL ZIP CODE 45219</b>				
KRUEGAR, ROBERT G.....	MURINE MYELOMA STUDIES.....	PTHB	7R01 CA18936-01	46,700
ORGANIZATION TOTAL	1 46,700			
<b>JEWISH HOSPITAL OF CINCINNATI ZIP CODE 45229</b>				
WEXLER, BERNARD C.....	SPONTANEOUS ARTERIOSCLEROSIS-GROUND SUBSTANCE CHANGES.....	CVA	5R01 HL15304-03	30,201
ORGANIZATION TOTAL	1 30,201			
<b>UNIVERSITY OF CINCINNATI ZIP CODE 45221</b>				
ALEXANDER, J WESLEY.....	SIGNIFICANCE OF INTRARENAL FLOW DURING PRESERVATION.....	SGYA	5R01 AM16088-02	60,938
ALTEMEIER, WILLIAM A.....	CENTER FOR COMPREHENSIVE CLINICAL STUDY OF TRAUMA.....	GMP	5P01 GM15428-08	475,672
ARMENTROUT, RICHARD W.....	SELECTIVE REPLICATION OF PARVOVIRUS IN TUMOR CELLS.....	VR	1R01 CA16517-01	45,909

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
BERNSTEIN, I LEONARD	PLATELET FUNCTION IN ASTHMA	IMB	5R01 AI12148-02	44,534
BLAHA, GORDON C	FUNCTIONAL AGE CHANGES IN FEMALE REPRODUCTIVE ORGANS	REB	5R01 HD06982-02	33,955
BONVENTRE, PETER F	BIOCHEMISTRY AND PATHOPHYSIOLOGY OF DIPHTHERIA	BM	5R01 AI08632-07	37,125
BRAY, NORMAN W	MEMORY SKILLS IN RETARDED AND NORMAL CHILDREN	DBR	1R01 HD09539-01	33,843
BRODISH, ALVIN	REGULATION OF ANTERIOR PITUITARY SECRETIONS	END	5R01 AM11496-07	45,872
BROOKS, STUART M	STERIOD METABOLISM IN PATIENTS WITH BRONCHIAL ASTHMA	PHRA	5R01 HL15907-02	27,480
BRYANT, SHIRLEY H	ELECTROPHYSIOLOGY AND PHARMACOLOGY OF MYOTONIC MUSCLE	PHRA	5R01 NS03178-13	38,992
CLYNE, DAVID H	MYELOMA KIDNEY: STUDIES ON TUBULAR CAST FORMATION	PTHA	1R01 AM18466-01	27,638
COATS, EUGENE A	QUANTITATIVE SAR OF CHELATE ANTINEOPLASTIC AGENTS	MCHB	5R01 CA13481-03	39,279
COATS, EUGENE A	RESPIRATORY INHIBITORS AS ANTINEOPLASTIC AGENTS	MCHA	5R01 CA16253-02	34,792
DANIELS, ROBERT S	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05408-14	191,241
DAY, RICHARD A	REVERSIBLE COVALENT MODIFICATION OF NUCLEIC ACIDS	MCHB	1R01 GM21705-01A1	33,003
DUMBLETON, JOHN H	DEVELOPMENT OF A TOTAL HIP PROSTHESIS WITH IMPROVED LIFE	AFY	1R01 AM17385-01A1	31,107
FREISHEIM, JAMES H	STRUCTURE-FUNCTION STUDIES OF DIHYDROFOLATE REDUCTASE	ET	5R01 CA11666-06	58,766
GLUECK, HELEN I	DETERMINATION OF NATURAL CLOTTING FACTORS	HEM	5R01 HL02904-19	67,533
HERMAN, JEROME H	IMMUNOPATHOLOGY OF CARTILAGE PROTEOGLYCANS	IMB	5R01 AM16894-03	34,010
HIGHSMITH, ROBERT F	PHYSIOLOGICAL REGULATION OF THE FIBRINOLYTIC SYSTEM	HEM	1R01 HL18101-01	42,876
JOHNSON, DALE R	EFFECTS OF LEAD ON RENAL MATURATION IN YOUNG ANIMALS	TOX	1R01 ES00972-01A1	48,452
KANESHIRO, EDNA S	MEMBRANE ALTERATIONS IN BEHAVIORAL MUTANTS	CBY	5R01 GM20910-02	38,796
KLINE, DANIEL L	PHYSIOLOGY AND BIOCHEMISTRY OF FIBRINOLYTIC ENZYMES	HEM	5R01 HL11772-09	45,894
KNOWLES, HARVEY C, JR	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	SSS	5R01 AM04401-15	34,564
KNOWLES, HARVEY C, JR	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00068-13	397,910
LINGREL, JERRY B	MAMMALIAN MESSENGER RNA AND PROTEIN BIOSYNTHESIS	BIO	5R01 GM10999-11	31,386
LIPICKY, RAYMOND J	BIOPHYSICAL ASPECTS OF DISEASES OF SKELETAL MUSCLE	NEUB	5R01 NS06782-08	42,068
LOPER, JOHN C	FRAMESHIFT MUTAGENESIS IN SALMONELLA TYPHIMURIUM	MBC	5R01 AI11516-02	40,627
LOPER, JOHN C	TRANSCRIPTION SIGNALS IN THE HISTIDINE OPERON	MBC	5R01 GM21281-02	14,500
MACCOMBER, ROGER S	STUDY OF SYNTHESIS OF TRICYCLIC ACETYLENE	MCHB	5R01 AI11690-02	26,430
MANALIS, RICHARD S	EFFECTS OF HEAVY METAL IONS ON A CHEMICAL SYNAPSE	NEUB	2R01 ES00649-04	41,042
MATTHEIS, E BINGHAM	PULMONARY METABOLISM OF BENZO(A)PYRENE	PTHB	5R01 CA15344-02	45,862
MC CUSKEY, ROBERT S	STUDIES OF THE HEMOPOIETIC MICROENVIRONMENT	HEM	5R01 AM10507-08	51,496
MC LAURIN, ROBERT L	CENTER FOR CLINICAL STUDIES OF HEAD INJURIES	NSPA	5P01 NS07253-07	125,635
MC LAURIN, ROBERT L	CHICAGO CONFERENCE ON NEURAL TRAUMA	NSS	1R13 NS12146-01	44,145
MEYER, RALPH R	REGULATION OF DNA REPLICATION IN NOVIKOFF HEPATOMA	BIO	1R01 CA17723-01	51,942
MICHAELSON, I ARTHUR	ROLE OF HEAVY METALS IN BRAIN DYSFUNCTION: LEAD	EXP	5R01 ES01077-10	38,089
MOULTON, BRUCE C	ENDOMETRIAL MECHANISMS OF OVARIAN HORMONE SYNERGISM	REB	5R01 HD07255-03	18,022
OLINGER, CHARLES P	ASPIRIN IN CEREBRAL ISCHEMIA-JOINT STUDY	TEC	5R01 HL14336-03	65,046
OLINGER, CHARLES P	ACOUSTICAL DETECTION OF CEREBRAL ANEURYSMS AND BRUIES	RAD	1R01 NS11990-01	53,942
PESCE, AMADEO J	TRANSPORT OF PROTEIN BY THE KIDNEY	GMB	2R01 AM17330-03	55,858
PESCE, AMADEO J	SPECIFIC ANTIBODIES TO BLADDER CARCINOMA TUMOR ANTIGEN	SRC	1R26 CA16939-01	44,869
PHAIR, JOHN P	HIST DEFENSES AND NOSOCOMIAL INFECTIONS	BM	1R01 AI12309-01	48,338
POLLAK, VICTOR E	CLINICOPATHOLOGIC AND OTHER STUDIES ON RENAL DISEASE	PTHA	5R01 AM17196-03	101,182
RUDNEY, HARRY	REGULATION OF ENZYMES IN MEVALONATE SYNTHESIS	PC	5R01 AM12402-08	65,927
RUDNEY, HARRY	STUDIES ON THE BIOSYNTHESIS OF UBIQUINONE	PC	5R01 GM20311-07	56,247
SCHIFF, GILBERT M	CLINICAL AND LABORATORY STUDIES ON RUBELLA	VR	5R01 HD00737-11	56,112
SCOTT, RALPH C	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	TEC	3R01 HL11369-08S1	8,559
SIGELL, LEONARD T	A NEW MODEL FOR MEDICAL INFORMATION COMMUNICATION SYSTEM	BLR	1R01 LM02350-01	69,656
SUSKIND, RAYMOND R	SUPPORT FOR CENTER FOR STUDY OF THE HUMAN ENVIRONMENT	SSS	5P10 ES00159-10	883,071
TSANG, REGINALD C	NEONATAL MINERAL METABOLISM	GMB	5R01 HD06458-03	61,574
ZIMMER, HANS W	NOVEL PHOSPHONATE STABILIZED CARBANIONS	MCHA	1R01 CA16666-01	39,283
ORGANIZATION TOTAL	52	4,151,089		
<b>CLEVELAND</b>				
<b>CANCER CENTER, INC.</b>	<b>ZIP CODE 44115</b>			
PORIES, WALTER J	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	CAP	1P01 CA17056-01	490,020
ORGANIZATION TOTAL	1	490,020		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
<b>CASE WESTERN RESERVE UNIVERSITY      ZIP CODE 44106</b>				
ADAM, PETER A.....	CONTROL OF FETAL AND NEONATAL GLUCOSE METABOLISM.....	HED	2R01 HD05740-04	87,350
AIKAWA, MASAMICHI.....	CHEMOTHERAPY OF MALARIA.....	TMP	5R01 AI08970-07	24,119
AIKAWA, MASAMICHI.....	HIGH VOLTAGE ELECTRON MICROSCOPY OF MALARIA.....	TMP	2R01 AI10645-04	24,675
BARBOUR, STEPHEN D.....	GENETIC AND BIOCHEMICAL STUDIES OF RECOMBINATION.....	GEN	5R01 GM17329-06	43,190
BENSUSAN, HOWARD B.....	THE MECHANISM OF COLLAGEN FORMATION.....	BBCB	5R01 AM01825-17	25,929
BENSUSAN, HOWARD B.....	STUDIES ON THE NON-COLLAGENOUS PORTION OF PROCOLLAGEN.....	BBCB	5R01 AM17720-02	36,555
BERNIER, GEORGE M, JR.....	METABOLISM OF LOW-MOLECULAR WEIGHT PROTEINS.....	ALY	5R01 AM14700-05	44,311
BERNIER, GEORGE M, JR.....	ORIGINS AND STRUCTURE OF THE MYELOMA CELL.....	PTHB	1R01 CA17864-01	46,577
BIAGLOW, JOHN E.....	MODIFICATION OF X-RAY RESPONSE OF ANOXIC-HYPOXIC CELLS.....	RAD	5R01 CA13747-03	60,388
BLOCH, EDWARD H.....	IN VIVO MICROSCOPY OF SCHISTOSOMIASIS OF ORGANS.....	TMP	5R22 AI12204-02	33,883
BOAT, THOMAS F.....	MUCIN SECRETION BY RESPIRATORY EPITHELIAL EXPLANTS.....	PTHB	5R01 HL14844-03	60,177
BODANSZKY, MIKLOS.....	BIOCHEMISTRY OF PEPTIDE ANTIBIOTICS.....	MCHA	5R01 AI07515-09	49,599
BODANSZKY, MIKLOS.....	SYNTHETIC PEPTIDE HORMONES.....	MCHA	5R01 AM12473-07	41,080
BURSTEIN, ALBERT H.....	IN VIVO LOADING ON HIP AND KNEE JOINT REPLACEMENTS.....	SGYB	5R01 AM16600-02	54,270
BURSTEIN, ALBERT H.....	BIOENGINEERING THREE-DIMENSIONAL SPINAL ANALYSIS.....	AFY	5R01 AM17149-02	60,118
BURSTEIN, ALBERT H.....	DEVELOPMENT OF SKELETAL STRENGTH IN CHILDREN.....	AFY	1R01 HD08027-01A1	53,624
CAPLAN, ARNOLD I.....	CELLULAR CONTROL OF BIOLOGICAL CALCIFICATION.....	GMH	1R01 DE04008-01	48,995
CAPLAN, ARNOLD I.....	THE CONTROL OF DEVELOPMENT OF LIMB MESODERMAL CELLS.....	CBY	5R01 HD07209-02	57,837
CARLSON, DON M.....	CHEMISTRY AND BIOSYNTHESIS OF GLYCOPROTEINS.....	PC	5R01 AM10335-10	56,594
CARTER, JAMES R, JR.....	MECHANISM OF ACTION OF INSULIN.....	MET	7R01 AM18382-01	63,881
CARTER, JAMES R, JR.....	MECHANISM OF ACTION OF INSULIN.....	MET	5R01 AM18382-02	70,620
CARTER, JAMES R, JR.....	BIOSYNTHESIS OF RED CELL MEMBRANE PROTEINS.....	HEM	7R01 AM18389-01	43,673
CARTER, JAMES R, JR.....	BIOSYNTHESIS OF RED CELL MEMBRANE PROTEINS.....	HEM	5R01 AM18389-02	58,514
CASTON, J DOUGLAS.....	PROTEIN SYNTHESIS DURING EMBRYOGENESIS.....	MBY	5R01 HD00038-11	64,645
COOK, ROBERT T.....	HISTONE CONTROL OF NUCLEAR DNA POLYMERASE ACTIVITY.....	PTHB	2R01 CA15484-03	38,800
CULP, LLOYD A.....	SURFACE PROPERTIES OF CANCER AND REVERTANT CELLS.....	MBY	2R01 CA13513-04	67,820
DEARBORN, DORR G.....	THE PLASMA MEMBRANE OF THE ALVEOLAR MACROPHAGE.....	YIP	1R23 HL17216-01A1	44,132
DOERSHUK, CARL F.....	PULMONARY MUCUS TRANSPORT IN OBSTRUCTIVE LUNG DISEASES.....	CVA	1R01 HL17776-01	40,490
EARLE, A SCOTT.....	RECONSTRUCTION OF FACIAL DEFECTS IN CANCER PATIENTS.....	SRC	1R18 CA17451-01	103,673
ECKSTEIN, RICHARD W.....	CORONARY BLOOD SUPPLY AND FUNCTION OF AORTIC BODIES.....	CVB	5R01 HL13926-05	75,943
FACKLER, JOHN P, JR.....	REACTIONS OF COORDINATED SULFUR COMPLEXES.....	MCHB	5R01 GM19050-05	45,420
FAGAN, JOSEPH F, III.....	STUDY OF INFANT VISUAL RECOGNITION AND MEMORY.....	DBR	5R01 HD06429-03	35,398
FERGUSON, JOHN H.....	INTRACORTICAL CONNECTIONS AND SEIZURE THRESHOLD.....	NEUA	1R01 NS12416-01	42,746
FRANK, KAY E.....	OCULAR INJURY BY ULTRASOUND.....	RAD	1R23 EY01508-01	10,560
GOLDSTEIN, MELVYN C.....	DEMOGRAPHIC STUDIES IN NEPAL.....	POP	1R01 HD08984-01	13,447
GOLDTHWAIT, DAVID A.....	NUCLEIC ACID FUNCTION IN RELATION TO CANCER.....	BIO	5R01 CA11322-07	60,495
GOLDTHWAIT, DAVID A.....	THE BIOCHEMISTRY OF GENETIC RECOMBINATION.....	BIO	5R01 GM18870-03	48,943
GRAVENSTEIN, JOACHIM S.....	SURVEILLANCE & PREDICTIVE DIAGNOSIS IN SURGICAL PATIENTS.....	GMP	5P01 GM19599-03	319,149
GREBER, ISAAC.....	DYNAMICS OF THE PLEURAL SPACE.....	AFY	1R01 HL17866-01	48,339
GREGG, EARLE C.....	MUTANTS AND ALTERED RADIORESPONSE OF CELLS AND TUMORS.....	RAD	5R01 CA15901-02	148,922
HARPST, JERRY A.....	LIGHT SCATTERING STUDIES ON DNA.....	BBCA	1R01 GM12946-01	25,609
HARRIS, JOHN W.....	STUDIES OF ERYTHROCYTE PRODUCTION AND DESTRUCTION.....	HEM	5R01 AM00745-21	53,806
HEGGIE, ALFRED D.....	VIRUS INDUCED DISORDERS OF GROWTH & DEVELOPMENT.....	VR	5R01 HD04110-05	60,575
HIRSCHMANN, HANS.....	CHEMISTRY AND METABOLISM OF STEROIDS.....	MCHA	2R01 AM09105-24	28,130
HOPFER, ULRICH.....	INTESTINAL TRANSPORT OF NUTRIENTS AND ELECTROLYTES.....	PHY	1R01 AM18265-01	46,040
HOPPEL, CHARLES L.....	PATHWAYS AND CONTROL OF FATTY ACID OXIDATION.....	MET	2R01 AM15804-04	85,234
ILAN, JOSEPH.....	MESSANGER RNA TRANSLATION DURING EMBRYOGENESIS.....	CBY	5R01 HD06727-04	66,916
ILAN, JUDITH.....	EFFECT OF DRUGS ON PLASMODIUM BERGHEI.....	TMP	5R01 AI11673-02	45,823
KAISERMAN-ABRAMOF, ITA R.....	STRUCTURE AND DEVELOPMENT OF THE VISUAL SYSTEM.....	VISB	5R01 EY01018-03	43,885
KATONA, PETER G.....	CRIB DEATH AND DEVELOPMENT OF CARDIOPULMONARY REFLEXES.....	HED	5R01 HD06314-04	60,752
KEAN, EDWARD L.....	GLYCOLIPID AND GLYCOPROTEIN METABOLISM IN EYE TISSUE.....	VISA	3R01 EY00393-07S1	4,920
KEAN, EDWARD L.....	GLYCOLIPID AND GLYCOPROTEIN METABOLISM IN EYE TISSUE.....	VISA	5R01 EY00393-08	89,405
KELLERMAYER, ROBERT W.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	3R10 CA15584-01S1	17,943
KELLERMAYER, ROBERT W.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	2R10 CA15584-02	67,250
KLEIN, LEROY.....	QUANTITATIVE DYNAMICS OF BONE REMODELLING WITH AGE.....	AFY	9R01 AG00258-07	136,036
KLEIN, LEROY.....	AN INTERDISCIPLINARY PROGRAM OF RESEARCH IN AGING.....	HDAG	2P01 HD00669-16	331,569
KO, WEN H.....	MICROELECTRONICS LABORATORY FOR BIOMEDICAL SCIENCE.....	SSS	5P01 GM14267-10	348,177
KO, WEN H.....	BIOMEDICAL ELECTRONICS RESOURCE.....	SSS	3P07 RR00857-01A1S1	60,000



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
KOENIG, JACK L.	RAMAN SPECTROSCOPE STUDIES. NUCLEOHISTONE-DNA COMPLEXES	BBCA	1R01 GM19975-01	39,660
KOWAL, JEROME	ENZYMATIC CONTROL OF STEROID BIOSYNTHESIS	END	5R01 AM15236-05	85,997
KRIEGER, IRVIN M.	RHEOLOGY AND PHASE TRANSITIONS IN MODEL DISPERSIONS	BBCA	3R01 HL09415-10S1	3,622
KUSHNER, IRVING	BIOSYNTHESIS AND STRUCTURE OF ACUTE PHASE PROTEIN	PTHA	7R01 AI12886-01	24,031
LANDAU, BERNARD R.	CARBOHYDRATE AND LIPID METABOLIC PATHWAYS	MET	5R01 AM14507-06	93,133
LASEK, RAYMOND J.	MACROMOLECULAR CONTROL OF NEURONAL FUNCTION	MBY	5R01 NS09299-05	41,991
LEASH, AARON M.	UNIVERSITY ANIMAL RESOURCE CENTER	AR	1P06 RR00948-01	154,672
LEE, EDGAR, JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05410-14	255,345
LINDLEY, BARRY D.	EXCITATION-CONTRACTION COUPLING IN DENERVATED MUSCLE	PHY	2R01 NS10196-02A2	38,308
LITTLE, A BRIAN	HORMONE METABOLISM IN REPRODUCTION	END	5R01 HD02378-10	71,060
LITTLE, A BRIAN	PROGRAM PROJECT IN REPRODUCTIVE BIOLOGY	HDPR	5P01 HD07640-02	249,748
LOVE, DAVID S.	CORTICAL STEROID REGULATION OF MUSCLE DEVELOPMENT	END	5R01 HD07138-03	56,080
MACKLIN, MARTIN R.	ELECTROGENIC PROPERTIES OF EPITHELIA	CBY	5R01 GM20541-02	31,105
MACKLIN, MARTIN R.	FETAL DEVELOPMENT AS MANIFEST BY THE FETAL ECG	HED	1R01 CA14548-01A1	48,910
MANDEL, MARK A.	LOCAL IMMUNE RESPONSE AGAINST CANCER	ALY	5R01 CA15115-02	48,141
MANN, J ADIN, JR.	MEMBRANE DYNAMICS: FLUCTUATION SPECTROSCOPY	BBCB	1R01 GM22031-01	50,070
MANSOUR, EDWARD G.	EASTERN COOPERATIVE ONCOLOGY GROUP STUDIES	CCI	1R01 CA14548-01A1	86,236
MARS, HAROLD	BIOGENIC AMINE METABOLISM IN APNEA AND CRIB DEATH	PTHA	1R01 HD09324-01	45,068
MARSHALL, JAMES S.	STUDIES ON HUMAN THYROXINE-BINDING GLOBULIN	END	5R01 AM15308-05	55,037
MATTHEWS, LEROY W.	STUDY OF CYSTIC FIBROSIS AND PULMONARY DISEASE	AMP	5P01 AM08305-12	114,357
MATTHEWS, LEROY W.	STUDY OF CYSTIC FIBROSIS AND PULMONARY DISEASE	NSS	5R01 HL13885-05	75,664
MEIGS, ROBERT A.	CONTROL OF STEROID HORMONE BIOSYNTHESIS IN PREGNANCY	END	5R01 HD06883-02	36,075
WEISNER, HERMAN M.	PURIFICATION AND PROPERTIES OF OCHROTOXIN A	MCB	7R01 ES01172-01	27,212
MELAMED, BARBARA G.	BEHAVIORAL APPROACHES TO PAIN RESPONSES IN PEDODONTICS	PCR	1R01 DE04243-01	51,050
MILLER, CHARLES G.	GENETICS & BIOCHEMISTRY OF INTRACELLULAR PROTEOLYSIS	MCB	5R01 AI10333-05	34,408
MILLER, MAX	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	SSS	5R01 AM05422-14	53,992
MOORE, ALLEN C.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07113-08	54,324
MOORE, LEE E.	FLUCTUATION SPECTROSCOPY OF EXCITABLE MEMBRANES	NEUB	2R01 NS08409-07	41,771
MOSTOW, STEVEN R.	LABORATORY MARKER OF INFLUENZA VIRUS VIRULENCE	CDC	5R01 AI11849-02	19,779
MURPHY, JOHN R.	ENERGY METABOLISM OF THE ERYTHROCYTE	HEM	2R01 AM02189-16	49,860
MURRISH, DAVID E.	FLUID EXCHANGE THROUGH CAPILLARY WALLS	PHY	2R01 HL14640-04	32,076
NAFF, GEORGE B.	CHARACTERIZATION OF THE PROPERDIN SYSTEM	ALY	5R01 AI13333-03	43,102
NEET, KENNETH E.	INTERACTION OF SUBUNITS IN ENZYMES AND PROTEINS	BBCA	2R01 AM12881-07	64,833
NEUMAN, MICHAEL R.	ULTRASONIC MONITORING OF THE PROGRESS OF LABOR	HED	5R01 HD06735-03	29,345
OLAH, GEORGE A.	STUDY OF BIOALKYLATION AND ACRYLATION SYSTEMS	MCHB	5R01 GM14082-09	102,175
OLEINICK, NANCY L.	RADIATION-INDUCED MODIFICATIONS IN PROTEIN SYNTHESIS	RAD	5R01 CA15378-02	68,203
ORNER, PETER A.	ADAPTIVE MONITORING OF DIABETIC KETOACIDOSIS	COM	1R01 GM21932-01	71,368
PEARSON, OLOF H.	ENDOCRINE FACTORS INFLUENCING TUMOR GROWTH IN MAN	END	3R01 CA05197-15S1	9,413
PEARSON, OLOF H.	ENDOCRINE FACTORS INFLUENCING TUMOR GROWTH IN MAN	END	2R01 CA05197-16	92,829
PETRELLI, MARY P.	SPONTANEOUS MOUSE HEPATOMAS AND LATENT MHV VIRUS	VR	5R01 CA14715-02	22,529
PLONSEY, ROBERT	STUDY OF MULTIPOLE SYSTEMS IN ELECTROCARDIOGRAPHY	CVB	5R01 HL10417-09	50,378
PLONSEY, ROBERT	NORMALIZED BODY SURFACE POTENTIAL MAPS	CVB	1R01 HL17931-01	70,962
POST, ROBERT S.	PROTEIN REABSORPTION AND EXCRETION	PTHA	5R01 AM16302-03	37,914
PRZYBYLSKI, RONALD J.	REGULATION OF DEVELOPMENT OF SKELETAL MUSCLE	CBY	5R01 HD06447-03	39,904
RATNOFF, OSCAR D.	HEMOSTATIC MECHANISMS	HEM	5R01 HL01661-23	68,249
RECKNAGEL, RICHARD O.	TOXIC LIVER NECROSIS AND FATTY LIVER	TOX	5R01 AM10489-18	120,985
ROBBINS, FREDERICK C.	GENERAL CLINICAL RESEARCH CENTER MATERNAL-CHILD	CLR	5M01 RR00210-11	537,411
ROBBINS, NORMAN	LONG-TERM NERVE-MUSCLE INTERACTIONS	NEUB	5R01 NS09420-05	73,410
ROSEN, MORTIMER G.	EARLY DIAGNOSTIC STUDIES OF ABERRANT DEVELOPMENT STUDY	HED	5R01 HD08966-02	72,569
SABLE, HENRY Z.	STUDIES ON POLYHYDROXYCYCLOALKANES	MCHA	2R01 AM07719-12	39,725
SAIDEL, GERALD M.	RENAL DATA ANALYSIS BY SYSTEMS MODELING	GMB	1R01 AM18603-01	25,260
SAIDEL, GERALD M.	IMMUNOTHERAPY AND DYNAMICS OF THE METASTATIC PROCESS	PTHB	5R01 CA16089-02	43,475
SAKAMI, WARWICK	BIOLOGICAL SIGNIFICANCE OF POLYLPOLYGLUTAMATE SYNTHESIS	SSS	1R01 GM21552-01	56,594
SALOMON, ROBERT G.	PREPROSTAGLANDIN ENDOPEPOXIDES	MCHA	3R01 GM21249-01S1	1,973
SAYERS, GEORGE	ISOLATED ADENOHYPOTHYAL CELLS	END	5R01 AM13820-06	58,865
SCHILTZ, JOHN R.	COLLAGEN SYNTHESIS BY DIFFERENTIATING CHICK TISSUES	MBY	1R01 AM18614-01	57,223
SCOTT, DAVID B.	THE STRUCTURE AND PROPERTIES OF HUMAN DENTAL ENAMEL	DEN	5R01 DE02525-09	61,929
SCOTT, DAVID B.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05335-14	29,841
SHUSTER, CHARLES W.	REGULATION OF CELL WALL GROWTH	MCB	5R01 AI11298-02	43,081
SINGER, MARCUS	NERVOUS CONTROL OF REGENERATION; AXON-SHEATH RELATIONS	NEUB	5R01 NS07403-14	120,372

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
SKEGGS, LEONARD T.	CAUSE OF CHRONIC EXPERIMENTAL RENAL HYPERTENSION	CVB	1R01 HL17243-01	46,070
SOKOLLU, ADNAN	STUDY OF EYE PHYSIOLOGY AND DISEASE BY ULTRASOUND	RAD	5R01 EY00224-14	155,861
STAMBR00K, PETER J.	STUDY OF MAMMALIAN GENES AND THEIR REPLICATION	CBY	1R01 GM22248-01	85,028
STAVITSKY, ABRAM B.	REGULATION OF HUMORAL IMMUNITY	ALY	5R01 AI11420-02	80,734
STAVITSKY, ABRAM B.	HUMORAL IMMUNITY CHOLERA TOXIN CAMP CGMP CONTROL	ALY	1R01 CA18648-01	25,800
STEINBERG, ARTHUR G.	NATURE AND DISTRIBUTION OF HUMAN GAMMA-GLOBULIN FACTORS	GEN	5R01 GM07214-15	103,471
STUEHR, JOHN E.	KINETIC INVESTIGATION OF BIOCHEMICAL REACTIONS	PC	5R01 GM13116-10	75,867
TEGTMAYER, PETER J.	MECHANISMS OF VIRAL ONCOGENESIS: SV 40 GENE FUNCTION	VR	1R01 CA16497-01	59,408
THOMPSON, W LEIGH	RENAL PHARMACOLOGY OF DOPAMINE AND PROSTAGLANDINS	PHRA	5R01 GM21727-02	62,427
THOMPSON, W LEIGH	SYSTEM OF EMERGENCY TREATMENT OF POISONED PATIENTS	TOX	1R01 GM22317-01	108,015
TISCHFIELD, JAY A.	GENETICS OF RESISTANCE TO ADENINE ANALOGS IN VITRO	GEN	1R01 GM21551-01	58,503
UTTER, MERTON F.	STRUCTURE OF BIOTIN ENZYMES	PC	5R01 AM12245-08	142,199
WALTON, ALAN G.	STUDY OF CALCIFIED TISSUE	AMP	5P01 AM17110-08	193,517
WARREN, KENNETH S.	IMMUNOPATHOGENESIS OF SCHISTOSOMIASIS	TMP	5R22 AI08163-08	116,561
WENTZ, WILLIAM B.	CARCINOGENESIS WITH HERPES VIRUS II	VR	1R01 CA16706-01	55,914
WOOD, HARLAND G.	UTILIZATION OF CO2 AND THE TOTAL SYNTHESIS OF ACETATE	PC	5R01 GM11839-12	78,261
ZULL, JAMES E.	METABOLISM OF PARATHYROID HORMONE	GMB	1R01 AM18019-01	31,708
ORGANIZATION TOTAL	135	9,588,994		
<b>CLEVELAND CLINIC HOSPITAL ZIP CODE 44106</b>				
BATTISTO, JACK R.	NATURALLY OCCURRING DELAYED-TYPE ISO-HYPERSENSITIVITY	IMB	5R01 AI12468-02	76,208
BUMPUS, F MERLIN	STUDY OF CARDIOVASCULAR DISEASE	HEP	5P01 HL06835-14	673,152
BUMPUS, F MERLIN	IMPROVEMENT OF CLEVELAND CLINIC ANIMAL FACILITIES	AR	5P06 RR00778-02	41,770
BUMPUS, F MERLIN	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05674-07	128,643
DEODHAR, SHARAD D	CLINICAL IMMUNOTHERAPY OF MALIGNANT MELANOMA	ET	1R01 CA13916-01A2	64,570
DEODHAR, SHARAD D.	IMMUNOLOGIC ASPECTS OF BERYLLIUM LUNG DISEASE	PTHB	5R01 HL15211-03	48,696
EHRHART, ALLEN	STUDY OF SYNTHESIS OF COLLAGEN IN ATHEROSCLEROSIS	PTHA	5R01 HL16588-02	62,317
ENGER, CARL C	A HEART-POWERED MINIATURE IMPLANTABLE PACEMAKER	SGYB	5R01 HL17692-02	50,898
FERRARIO, CARLOS M.	THE UNRESOLVED NATURE OF MALIGNANT HYPERTENSION	CVB	1R01 HL18062-01	31,445
GREENWALD, A SETH	A CONTACT AREA STUDY OF THE HUMAN ANKLE JOINT	AFY	1R01 AM17479-01A1	32,892
HEWLETT, JAMES S	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	2R10 CA04919-16	87,138
HOLZBACH, R THOMAS	STUDY OF FACTORS IN PRECIPITATION OF CHOLESTEROL	GMA	5R01 AM17562-02	75,076
MC CUBBIN, JAMES W	ETIOLOGIC MECHANISMS OF RENAL HYPERTENSION	CVA	5R01 HL15357-03	77,571
NOSE, YUKIHIKO	STUDIES ON PROSTHETIC TOTAL HEART REPLACEMENT	SGYB	1R01 HL17435-01	113,545
RHINELANDER, FREDERIC W	MICROCIRCULATION AND HISTOLOGY OF HEALING BONE	AFY	2R01 AM16267-04A1	103,415
SEN, SUBHA	ISOLATION OF A HYPERTENSIVE COMPOUND FROM HUMAN URINE	CVB	5R01 HL16433-02	27,710
TARAZI, ROBERT C.	ROLE OF RENIN AND CARDIAC HYPERTROPHY IN HYPERTENSION	CVB	5R01 HL15837-03	39,535
ORGANIZATION TOTAL	17	1,734,581		
<b>CLEVELAND STATE UNIVERSITY ZIP CODE 44115</b>				
GOODRICH, CECILIE A.	PHYSIOLOGY OF RESPIRATION AND HIBERNATION	PHY	5R01 HL14818-03	12,869
ORGANIZATION TOTAL	1	12,869		
<b>MOUNT SINAI HOSPITAL OF CLEVELAND ZIP CODE 44106</b>				
HAAS, ERWIN	EXPERIMENTAL RENAL AND NEUROGENIC HYPERTENSION	CVB	1R01 HL17947-01	136,436
LEVY, MATTHEW N	REFLEX CONTROL OF VENTRICULAR CONTRACTILITY	CVB	5R01 HL10951-08	82,503
LEVY, MATTHEW N.	CATECHOLAMINE RELEASE IN THE HEART	CVB	5R01 HL15758-03	70,319
LEVY, MATTHEW N.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05658-08	41,005
PAWLOWSKI, RAYMOND	PULMONARY SURFACTANT: MORPHOLOGY, BIOSYNTHESIS, TURNOVER	CVA	5R01 HL16514-02	52,777
ORGANIZATION TOTAL	5	383,040		
<b>ST. LUKE'S HOSPITAL OF THE UNITED METHODIST CHURCH ZIP CODE 44104</b>				
CROSS, FREDERICK S.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05642-09	22,878
KLEINERMAN, JEROME I.	ANALYSIS OF MECHANISMS OF EXPERIMENTAL EMPHYSEMA	CVA	5R01 ES00264-08	50,322
KLEINERMAN, JEROME I.	EXPERIMENTAL EMPHYSEMA	PTHA	1R01 HL17542-01	52,042
NIEWOEHNER, DENNIS E.	EARLY OBSTRUCTIVE LUNG DISEASE: MECHANICS, MORPHOMETRY	PTHA	5R01 HL16542-02	22,336
ORGANIZATION TOTAL	4	147,578		
<b>ST. VINCENT CHARITY HOSPITAL ZIP CODE 44115</b>				
WHALEN, WILLIAM J.	COMPARATIVE STUDY OF HEART FUNCTION	CVA	2R01 HL11906-08	40,174

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
WHALEN, WILLIAM J.....	VASCULAR CONTROL MECHANISMS IN SKELETAL MUSCLE.....	CVA	5R01 HL12703-06	46,240
ORGANIZATION TOTAL	2 86,414			
<b>UNIVERSITY HOSPITALS OF CLEVELAND ZIP CODE 44106</b>				
ROBBINS, FREDERICK C.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00080-13	61,602
ORGANIZATION TOTAL	1 61,602			
<b>COLUMBUS</b>				
<b>BATTELLE MEMORIAL INSTITUTE ZIP CODE 43201</b>				
AXLER, DAVID.....	PESTICIDE TOXICITY IN MAMMALIAN CELL CULTURES.....	TOX	1R01 ES00865-01	57,431
CLARKE, WILLIAM J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05723-04	72,514
DE VORE, DALE P.....	CHARACTERIZATION OF ADHESIVE FORMED BY MYTILUS EDULIS.....	DEN	1R01 DE04100-01	38,966
FALB, RICHARD D.....	MATERIALS FOR AN IMPLANTABLE MUSCLE.....	AFY	1R01 AM18182-01	53,194
FOLTZ, RODGER L.....	REGIONAL BIOMEDICAL MASS SPECTROMETRY RESOURCE.....	MCHA	5P07 RR00665-02	68,408
HANNA, WILLIAM T.....	STUDY OF LV CONTRACTILITY WITH A MATHEMATICAL MODEL.....	CVA	5R01 HL14316-04	55,447
HASSLER, CRAIG R.....	QUANTIFICATION OF BONE STRESSES DURING REMODELING.....	AFY	5R01 AM17614-02	46,246
ORGANIZATION TOTAL	7 392,206			
<b>CHILDREN'S HOSPITAL ZIP CODE 43205</b>				
NEWTON, WILLIAM A, JR.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	CCI	2R10 CA03750-18	105,773
ORGANIZATION TOTAL	1 105,773			
<b>INDIVIDUAL AWARD—BURNHAM, JOHN C. ZIP CODE 43220</b>				
BURNHAM, JOHN C.....	IMPACT OF PHYSIOLOGY AND PSYCHOLOGY ON AMERICAN CULTURE.....	SSS	1R01 LM02539-01	24,739
ORGANIZATION TOTAL	1 24,739			
<b>OHIO DEPARTMENT OF HEALTH ZIP CODE 43216</b>				
BEAR, GEORGE T.....	EPIDEMIOLOGY OF CALIFORNIA ENCEPHALITIS IN OHIO.....	EDC	1R91 AI12047-01	47,009
ORGANIZATION TOTAL	1 47,009			
<b>OHIO STATE UNIVERSITY ZIP CODE 43210</b>				
ALBEN, JAMES O.....	NEW SPECTRAL PROBES IN HEMOLYTIC ANEMIAS.....	BBCB	1R01 HL17839-01	33,440
ALLEN, JAMES N.....	BIOCHEMISTRY OF NITROSOUREA INDUCED BRAIN TUMORS.....	NEUA	5R01 CA08543-11	46,086
BARBER, GEORGE A.....	METABOLISM OF 6-DEOXYHEXOSES.....	PC	5R01 GM19701-07	14,414
BASHE, WINSLOW, JR.....	CLINICAL-PATHOLOGIC STUDIES OF SUDDEN CARDIAC DEATH.....	SRC	1R01 HL18793-01	80,554
BATTLES, JAMES B.....	A REGIONAL AMBULATORY CANCER CHEMOTHERAPY PROGRAM.....	CCG	1R18 CA17942-01	84,264
BEAL, JACK L.....	ANTIMICROBIAL PRINCIPLES OF POROPHYLLUM LANCEOLATUM.....	MCHB	1R01 AI12728-01	33,308
BEAL, JACK L.....	A PHYTOCHEMICAL SEARCH FOR MEDICINAL CONSTITUENTS.....	MCHB	1R01 GM20968-01	55,322
BEHRMAN, EDWARD J.....	SYNTHESIS OF BETA-GLYCOSYL NUCLEOTIDES.....	MCHA	5R01 GM20002-02	17,968
BEHRMAN, EDWARD J.....	BIOCHEMICAL APPLICATIONS OF OSMIUM CHEMISTRY.....	MCHB	5R01 GM20375-02	31,082
BERLINER, LAWRENCE J.....	THE ROLE OF ALPHA-LACTALBUMIN IN LACTOSE.....	BBCB	1R01 GM21923-01	38,251
BIERSDORF, WILLIAM R.....	ELECTROPHYSIOLOGICAL STUDIES OF VISUAL ADAPTATION.....	SSS	5R01 EY00454-07	42,958
BOZLER, EMIL.....	CONTROL OF THE TIME COURSE OF CARDIAC CONTRACTION.....	PHY	3R01 HL14548-16S1	2,518
BRIERLEY, GERALD P.....	ION TRANSPORT BY HEART MITOCHONDRIA.....	BIO	2R01 HL09364-10A1	44,880
BROMBERG, PHILIP A.....	STUDY OF NEW CHEMOTHERAPY FOR SICKLE CELL DISEASE.....	HEM	5R01 HL14880-03	53,356
BUSCH, DARYLE H.....	LIGAND REACTIONS, CATALYSIS, AND MACROCYCLIC COMPLEXES.....	MCHB	5R01 GM10040-13	77,319
CAVALARIS, CONSTANTINE J.....	CLINICAL CANCER EDUCATION PROGRAM (DENTAL).....	CEC	1R25 CA17999-01	24,882
CERILLI, G JAMES.....	ANTIVASCULAR ENDOTHELIUM ANTIBODY IN TRANSPLANTATION.....	SGYA	5R01 AM16804-02	34,874
CERILLI, G JAMES.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA18016-01	90,552
CORNWELL, DAVID G.....	MONOLAYERS AND THE PROPERTIES OF MEMBRANE LIPIDS.....	BBCB	2R01 GM09506-11A1	34,554
CORNWELL, DAVID G.....	PATHOGENESIS OF CORONARY ATHEROSCLEROSIS.....	PTHA	5R01 HL11897-08	42,821
COURI, DANIEL.....	THE PHARMACOLOGY OF COUMARIN ANTICOAGULANTS.....	HEM	5R01 HL15630-03	25,011
CRAMBLETT, HENRY G.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00034-15	521,948
CRAMBLETT, HENRY G.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05409-14	163,652
DODD, MATTHEW C.....	IMMUNE RNA: TUMOR THERAPY AND PROPHYLAXIS IN MICE.....	IMB	1R01 CA16867-01A1	58,200
FLEISHER, BELTON M.....	HOUSEHOLD FORMATION, FERTILITY AND MARKET ACTIVITY.....	POP	2R01 HD07396-03	58,273
FREY, PERRY A.....	ENZYME CATALYSIS OF ELECTRON AND GROUP TRANSFER.....	BIO	2R01 AM13502-07	48,163
GOLDMAN, HAROLD.....	NEUROENDOCRINE MECHANISM CONTROLLING ORGAN PERFUSION.....	PHRA	2R01 NS05526-10A1	29,643



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
HART, RONALD W.....	MECHANISM OF CARCINOGEN - CO-CARCINOGEN INTERACTION.....	ET	1R01 CA17917-01	23,139
HILL, RICHARD M.....	EFFECTS OF REFRACTIVE ERROR IN SINGLE CELL CODING.....	VISB	5R01 EY01325-02	18,228
HINE, JACK.....	STUDY OF POLYFUNCTIONAL CATALYSIS.....	MCHA	5R01 GM18593-10	39,068
HORTON, DEREK.....	DESIGN AND EVALUATION OF ANTITUMOR NUCLEOSIDE ANALOGS.....	SSS	5R01 CA15675-02	45,839
HORTON, DEREK.....	SYNTHESIS OF BIOLOGICALLY IMPORTANT CARBOHYDRATES.....	MCHB	5R01 NM1976-11	73,148
HORTON, DEREK.....	LIPOLYSACCHARIDE ANTIGENS OF PSEUDOMONAS AERUGINOSA.....	MCHB	5R01 GM20181-01S1	1,897
HUNT, WILLIAM E.....	ACUTE SPINAL CORD INJURY RESEARCH CENTER.....	NSPA	5P01 NS10165-03	474,381
INGLING, CARL R. JR.....	INTERACTION BETWEEN RECEPTOR CLASSES IN THE RETINA.....	VISB	5R01 EY00148-05	15,758
IVES, DAVID H.....	ANABOLIC CONTROL IN NORMAL AND NEOPLASTIC TISSUES.....	BIO	5R01 CA06913-11	41,936
KAPRAL, FRANK A.....	STUDIES ON IN VIVO GROWTH OF STAPHYLOCOCCI.....	BM	5R01 A107826-07	31,664
KING, JAMES S.....	THE ROLE OF THE RED NUCLEUS IN MOTOR FUNCTION.....	NEUB	5R01 NS08798-05	27,557
KLAPPER, MICHAEL H.....	MECHANISM OF SEXUAL ATTRACTION IN ALLOMYCES AND FUCUS.....	REB	5R01 HD07824-02	20,889
KOESTNER, ADALBERT.....	A MODEL OF PARAINFECTIONOUS DEMYELINATING ENCEPHALITIS.....	VR	2R01 A109022-07	68,736
KOESTNER, ADALBERT.....	NEUROONCOGENESIS BY RESORPTIVE CARCINOGENS.....	PTHA	5R01 CA11224-07	87,739
KRUEGER, LESTER E.....	HIGHER LEVEL UNITS IN PERCEPTION.....	EXP	7R01 HD09282-01	17,085
KUNZ, ALBERT L.....	DYNAMICS OF O2 AND CO2 REGULATION.....	CVA	2R01 HL14870-04	35,852
KUWANA, THEODORE.....	SPECTROELECTROCHEMISTRY OF BIOELECTRON TRANSFERS.....	BBCA	5R01 GM19181-04	42,802
LA PIDUS, JULES B.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07074-10	58,041
LIM, DAVID J.....	SEROUS OTITIS MEDIA: IMMUNOCHEMICAL AND EM STUDY.....	CMS	2R01 NS08854-05A1	55,916
LO BUGLIO, ALBERT F.....	TRANSFER FACTOR IMMUNOTHERAPY OF CANCER.....	ET	5R01 CA14327-03	72,159
MARTIN, GEORGE F.....	A COMPARATIVE STUDY OF THE EXTRAPYRAMIDAL SYSTEM.....	NEUB	5R01 NS07410-08	29,660
MARZLUF, GEORGE A.....	CONTROL OF DIFFERENTIAL GENE ACTION AND MORPHOGENESIS.....	GEN	5R01 GM18642-04	26,221
MATTHEWS, RICHARD H.....	INHIBITION AND ISOLATION OF TUMOR TRANSPORT SYSTEMS.....	BIO	1R01 CA17925-01	45,877
MAYER, ROBERT M.....	STUDIES ON THE DEXTRAN SUCRASE OF STREPTOCOCCUS SANGUIS.....	PC	5R01 DE03731-02	32,446
MILLER, DUANE D.....	STEREOCHEMICAL STUDIES OF ADRENERGIC DRUGS.....	MCHB	5R01 NS09350-05	31,669
MILLER, DUANE D.....	DEVELOPMENT OF SELECTIVE BETA-ADRENORECEPTIVE AGENTS.....	MCHB	5R01 NS10896-02	37,301
MINTON, JOHN P.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12287-05	57,447
NAGODE, LARRY A.....	VITAMIN D: ROLE OF INDUCED CA-ATPASE IN INTESTINE.....	GMB	1R01 AM17914-01	21,447
NEWMAN, MELVIN S.....	SYNTHESIS OF CARCINOGENIC COMPOUNDS.....	MCHA	2R01 CA07394-11	35,024
OLSON, CARTER L.....	DEVELOPMENT OF NEW ASSAYS FOR ENZYMES AND INHIBITORS.....	SSS	5R01 NM15821-07	28,915
PAPPAS, PETER W.....	BIOCHEMICAL ASPECTS OF HOST-PARASITE RELATIONSHIPS.....	TMP	1R01 A112265-01	19,614
PAQUETTE, LEO A.....	POLYCONDENSED ALICYCLICS AND THEIR ANTIVIRAL ROLE.....	MCHA	5R01 A11490-02	62,488
PAQUETTE, LEO A.....	CHEMICAL STUDIES RELATED TO HYDROCARBON CARCINOGENESIS.....	MCHA	5R01 CA12115-05	76,776
PARKS, LLOYD M.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05607-09	42,481
PATIL, POPAT N.....	IRIS COLOR AND OCULAR DRUG EFFECTS.....	VISA	1R01 EY01308-01A1	17,020
PATIL, POPAT N.....	DRUG RECEPTOR RELATED STEREOSPECIFICITIES.....	PHRA	2R01 GM17859-07A1	28,480
PERLMAN, PHILIP S.....	MECHANISMS OF MITOCHONDRIAL TRANSMISSION GENETICS.....	GEN	5R01 GM19607-03	49,343
PIEPER, HEINZ P.....	AORTIC FUNCTION.....	CVA	5R01 HL13900-05	19,598
PIMMEL, RUSSELL L.....	NONINVASIVE MEASUREMENT OF AIRWAYS RESISTANCE.....	AFY	1R01 HL17585-01	77,755
RHEINS, MELVIN S.....	IODOACETATE-IMMUNOTHERAPY OF LYMPHOID LEUKEMIA.....	ET	5R01 CA13752-03	55,432
RICHARDSON, KEITH E.....	OXALIC ACID METABOLISM AND PRIMARY HYPEROXALURIA.....	MET	5R01 AM12960-06	25,476
RIESKE, JOHN S.....	FT-INFRARED SPECTROSCOPY OF HEART MUSCLE ENERGETICS.....	BBCB	1R01 HL18304-01	27,219
ROYER, GARFIELD P.....	IMMOBILIZED ENZYMES, APPLICATIONS IN PROTEIN CHEMISTRY.....	PC	2R01 GM19507-04	64,034
SAIDUDDIN, SYED.....	STUDIES ON THE EFFECT OF OBESITY ON REPRODUCTION.....	REB	1R01 HD08576-01	19,200
SHECHTER, HAROLD.....	SYNTHESIS AND CHEMISTRY OF DIAZO COMPOUNDS.....	MCHA	2R01 CA11185-07	51,969
SMITH, C ROGER.....	WALL SHEAR STRESSES IN CORONARY VESSELS.....	CVA	2R01 HL16236-02	42,363
SMITH, C ROGER.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05463-13	36,482
SPRECHER, HOWARD W.....	POLYUNSATURATED FATTY ACID INTERCONVERSIONS.....	PC	5R01 AM09758-10	32,598
STEVENSON, JOANNE S.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05742-04	18,267
STONER, CLINTON D.....	STRUCTURE AND FUNCTION OF HEART MITOCHONDRIA.....	BIO	1R01 HL18038-01	57,294
VASKO, JOHN S.....	PHYSIOLOGY & HISTOPATHOLOGY OF ARTERIALIZED VEIN GRAFTS.....	SGYA	1R01 HL17337-01	52,040
WEBB, THOMAS E.....	ABERRANT GENE EXPRESSION DURING CHEMOTHERAPY.....	ET	5R01 CA13718-03	33,985
WEISS, HAROLD S.....	MAPPING OF INTIMAL O2 TENSION IN ATHEROSCLEROSIS.....	CVB	5R01 HL09026-12	18,900
WILSON, HENRY E.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA04920-16	93,378
WISE, GARY R.....	STROKE ACUTE CARE RESEARCH UNIT.....	NSPA	5P17 NS11106-03	74,266
WITIAK, DONALD T.....	STEREOCHEMICAL STUDIES OF HYPOCHOLESTEROLEMIC AGENTS.....	PHRA	2R01 HL12740-07	75,680
WITIAK, DONALD T.....	PSYCHOACTIVE, ANTICONVULSANT, ANTIPARKINSONISM DRUGS.....	MCHA	5R01 NS10203-03	48,994
WYMAN, MILTON.....	DEVELOPMENTAL STUDY OF CONGENITAL GLAUCOMA.....	VISA	5R01 EY01184-02	71,562
YEARY, ROGER A.....	COMPARATIVE STUDIES IN PERINATAL TOXICOLOGY.....	TOX	5R01 HD03867-06	55,515
YOHN, DAVID S.....	CANCER CENTER SUPPORT GRANT.....	CAK	5P01 CA16058-02	994,226

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
ZWILLING, BRUCE S.....	IMMUNOPROPHYLAXIS AND IMMUNOTHERAPY OF LUNG CANCER.....	ET	5R01 CA16342-02	28,085
ORGANIZATION TOTAL	88 5,756,654			
<b>DAYTON</b>				
WRIGHT STATE UNIVERSITY	ZIP CODE 45431			
BATRA, PREM P.....	BIOSYNTHESIS OF CAROTENES IN MYCOBACTERIA.....	MBC	5R01 AI10517-02	27,562
BATTINO, RUBIN.....	SOLUBILITY OF GASES IN WATER AND CYCLIC SOLVENTS.....	BBCB	2R01 GM14710-08	44,949
COLBERT, CHARLES.....	SYSTEM FOR ASSESSING SKELETAL HEALTH FROM RADIOGRAPHS.....	RAD	5R01 AM16475-02	101,685
COLBERT, CHARLES.....	RAPID SCREENING FOR LEAD POISONING.....	TOX	5R01 ES00831-02	55,141
CUMMINGS, SUE C.....	REACTIONS OF POLYDENTATE THIOIMINATO METAL COMPLEXES.....	MCHB	5R01 HL15640-03	21,997
HUTCHINGS, BRIAN L.....	TETRACYCLINE RESISTANCE IN STAPHYLOCOCCUS AUREUS.....	BM	5R01 AI09178-06	35,679
KANTOR, GEORGE J.....	EFFECTS OF RADIATION ON HUMAN CELLS CULTURED IN VITRO.....	RAD	1R01 CA16477-01	35,752
ORGANIZATION TOTAL	7 322,765			
<b>DELAWARE</b>				
ORIO WESLEYAN UNIVERSITY	ZIP CODE 43015			
BAHRICK, HARRY P.....	RECOGNITION AND RECALL DURING ACQUISITION AND RETENTION.....	EXP	5R01 HD00926-14	25,157
ORGANIZATION TOTAL	1 25,157			
<b>GRANVILLE</b>				
DENISON UNIVERSITY	ZIP CODE 43023			
WINDLE, WILLIAM F.....	CENTRAL NERVOUS REGENERATION: HORMONAL INFLUENCES.....	NEUB	3R01 NS11507-01S1	3,000
WINDLE, WILLIAM F.....	CENTRAL NERVOUS REGENERATION: HORMONAL INFLUENCES.....	NEUB	5R01 NS11507-02	22,606
ORGANIZATION TOTAL	2 25,606			
<b>KENT</b>				
KENT STATE UNIVERSITY	ZIP CODE 44240			
ROE, BRUCE A.....	THE ROLE OF MODIFIED NUCLEOTIDES IN MAMMALIAN TRNA.....	PC	3R01 GM21405-01S1	4,971
ORGANIZATION TOTAL	1 4,971			
<b>KETTERING</b>				
COX HEART INSTITUTE	ZIP CODE 45429			
KEZDI, PAUL.....	BAROCEPTOR REGULATION IN CARDIOVASCULAR DISEASE.....	CVA	5R01 HL15004-03	70,475
ORGANIZATION TOTAL	1 70,475			
<b>OBERLIN</b>				
OBERLIN COLLEGE	ZIP CODE 44074			
SEGAL, DAVID.....	EFFICIENCY ASPECTS OF URBAN SIZE: THE FEDERAL IMPACT.....	POP	1R01 HD08943-01	29,186
ORGANIZATION TOTAL	1 29,186			
<b>OXFORD</b>				
MIAMI UNIVERSITY	ZIP CODE 45056			
WILSON, DAVID F.....	PRESYNAPTIC EVENTS IN NEUROMUSCULAR TRANSMISSION.....	NEUB	5R01 NS09042-06	13,378
ORGANIZATION TOTAL	1 13,378			
<b>TOLEDO</b>				
MEDICAL COLLEGE OF OHIO AT TOLEDO	ZIP CODE 43614			
BUDD, GEOFFREY C.....	FLUOROPHOSPHATE-SENSITIVE ESTERASES IN THE LIVER.....	MBY	5R01 AM16537-02	32,812
CLIFFORD, DONALD H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05700-06	40,196
FABER, LEE E.....	PROGESTERONE RECEPTORS.....	REB	1R01 HD09367-01	55,549

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
HAUMAN, ROBERT L.....	ROLE OF ENZYMES IN CHOLECYSTITIS AND CHOLELITHIASIS.....	GMA	5R01 AM16049-02	28,805
HOWARD JOHN M.....	STUDY OF PANCREATITIS AND ITS TREATMENT.....	SGYA	5R01 AM17789-02	75,045
LEVIN, JEROME A.....	INACTIVATION OF NOREPINEPHRINE IN VASCULAR TISSUE.....	PHRA	5R01 HL12647-06	33,252
MANNING, MAURICE.....	DESIGN AND SYNTHESIS OF NEUROHYPOPHYSIAL PEPTIDES.....	MCHA	2R01 HD06351-04	57,387
MC CORQUODALE, D JAMES.....	REGULATORY MECHANISMS OF VIRAL INFECTIONS.....	PC	7R01 AI13166-01	44,324
NELSON, LEONARD.....	SUBMICROSCOPIC BASES OF MALE INFERTILITY.....	REB	5R01 HD03266-07	69,602
PEARLMUTTER, ANNE F.....	HORMONE INTERACTIONS STUDIED BY RELAXATION TECHNIQUES.....	BBCA	1R01 AM18383-01	37,288
PINHEIRO, MARILYN L.....	EEG AND BEHAVIORAL STUDIES OF AUDITORY PERCEPTION.....	CMS	1R01 NS12234-01	32,830
REIMANN, ERWIN M.....	BIOCHEMICAL ROLE OF CYCLIC AMP IN THE GASTRIC MUCOSA.....	PC	2R01 AM15611-04	39,158
SAFFRAN, JUDITH.....	PROGESTERONE BINDING AND METABOLISM IN UTERINE NUCLEI.....	REB	1R01 HD09359-01	55,849
SCHLENDER, KEITH K.....	REGULATION OF THE RENAL GLYCOGEN SYNTHASE SYSTEM.....	PC	5R01 AM14723-05	23,160
SOLOFF, MELVYN S.....	THE MECHANISM OF ACTION OF OXYTOCIN ON THE UTERUS.....	HED	5R01 HD08406-02	35,603
TIDRICK, ROBERT T.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17989-01	44,161
TURNER, JOHN W, JR.....	HORMONAL CONTROL OF SEXUAL DIFFERENTIATION OF THE BRAIN.....	END	1R01 HD09429-01	30,495
WUU, TING-CHI.....	PROPERTIES AND FUNCTIONS OF NEUROSECRETORY GRANULES.....	END	1R01 NS12183-01	36,640
ORGANIZATION TOTAL	18	772,156		
<b>UNIVERSITY OF TOLEDO ZIP CODE 43606</b>				
LEE, HAROLD H.....	DIFFERENTIATION AND ANDROGENESIS IN JUVENILE TESTIS.....	REB	3R01 HD06725-03S1	6,586
ORGANIZATION TOTAL	1	6,586		
<b>WILBERFORCE</b>				
<b>CENTRAL STATE UNIVERSITY ZIP CODE 45384</b>				
JOHNSON, MELVIN A, JR.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08052-04	36,466
ORGANIZATION TOTAL	1	36,466		
<b>WOOSTER</b>				
<b>COLLEGE OF WOOSTER ZIP CODE 44691</b>				
HINTON, CLAUDE W.....	CHROMOSOME BEHAVIOR IN DROSOPHILA.....	GEN	2R01 GM16536-07	19,315
ORGANIZATION TOTAL	1	19,315		
<b>OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER ZIP CODE 44691</b>				
BOHL, EDWARD H.....	IMMUNITY AGAINST ENTERIC VIRAL INFECTIONS.....	ALY	5R01 AI10735-03	43,148
ORGANIZATION TOTAL	1	43,148		
<b>YELLOW SPRINGS</b>				
<b>CHARLES F. KETTERING FOUNDATION—RESEARCH LABORATORY ZIP CODE 45387</b>				
DARROW, ROBERT A.....	METABOLIC CONTROL IN REACTIONS OF NUCLEOTIDE SUGARS.....	PC	5R01 AM11661-09	23,016
TONER, JAMES J, JR.....	MOLECULAR ORGANIZATION IN ROD OUTER-SEGMENT MEMBRANES.....	MBY	5R01 EY00932-03	17,572
ORGANIZATION TOTAL	2	40,588		
<b>FELS RESEARCH INSTITUTE ZIP CODE 45387</b>				
FALKNER, FRANK.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05537-13	51,476
ISRAEL, HARRY, III.....	SEQUENCES IN CRANIOFACIAL MALFORMATION.....	DEN	1R01 HD09154-01	54,976
MC CALL, ROBERT B.....	PERCEPTUAL-COGNITIVE DEVELOPMENT IN HUMAN INFANTS.....	EXP	5R01 HD07372-02	34,802
ROBERTSON, RICHARD T.....	STRUCTURE AND FUNCTION OF ASCENDING RETICULAR SYSTEMS.....	EXP	1R01 NS12233-01	28,373
ROCHE, ALEXANDER F.....	PATTERNS OF DENTOCRANIOFACIAL GROWTH AND MATURATION.....	DEN	5R01 DE03472-04	64,990
ROCHE, ALEXANDER F.....	ASSESSMENT OF SKELETAL MATURITY.....	AFY	5R01 HD04629-05	76,215
VARANDANI, PARTAB T.....	REGULATION OF INSULIN DEGRADATION.....	MET	5R01 AM03854-15	95,914
ORGANIZATION TOTAL	7	406,746		
<b>YOUNGSTOWN</b>				
<b>YOUNGSTOWN STATE UNIVERSITY ZIP CODE 44503</b>				
DEL BENE, JANET E.....	MOLECULAR ORBITAL STUDIES OF HYDROGEN BONDING.....	BBCA	5R01 GM19032-02	32,032
ORGANIZATION TOTAL	1	32,032		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OHIO—Continued</b>				
STATE TOTAL	397	27,182,767		
<b>OKLAHOMA</b>				
<b>DURANT</b>				
<b>SOUTHEASTERN OKLAHOMA STATE UNIVERSITY      ZIP CODE 74701</b>				
ROBINSON, JACK L.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08003-04	113,281
ORGANIZATION TOTAL	1	113,281		
<b>NORMAN</b>				
<b>UNIVERSITY OF OKLAHOMA      ZIP CODE 73069</b>				
BASTIAN, JOSEPH A.....	SENSORY PROCESSING IN THE CEREBELLUM.....	NEUA	1R01 NS12337-01	41,683
DRYHURST, GLENN.....	ELECTROCHEMISTRY AND INTERFACIAL BEHAVIOR OF PURINES.....	MCHB	5R01 GM21034-02	35,817
HAINES, HOWARD.....	EFFECT OF WATER RESTRICTION ON BODY FLUID OF MICE.....	AFY	5R01 AM16237-02	20,781
KAUL, PUSHKAR N.....	NANO-ASSAY FOR AMITRIPTYLENE IN BLOOD.....	MCHB	1R01 NS12004-01A1	21,138
LARSH, HOWARD W.....	ISOLATION OF A SKIN TEST ANTIGEN FOR BLASTOMYCOSIS.....	BM	5R01 AI11610-02	21,633
LARSH, HOWARD W.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07078-02	23,403
SCHMITZ, FRANCIS J.....	ANTITUMOR AGENTS FROM MARINE ORGANISMS.....	MCHB	1R01 CA17256-01	43,721
SETO, FRANK.....	INBRED CHICKEN STRAINS FOR IN VIVO CULTURE STUDIES.....	IMB	1R01 AI12488-01	2,000
VAN DER HELM, DICK.....	STRUCTURE OF ANTICANCER AGENTS BY X-RAY DIFFRACTION.....	BBCA	1R01 CA17562-01	41,117
VAN DER HELM, DICK.....	STRUCTURE OF SIDEROCHROMES AND PEPTIDE CHELATES.....	BBCA	1R01 GM21822-01	59,221
WEINHEIMER, ALFRED J.....	BIOACTIVE COMPOUNDS FROM MARINE ORGANISMS.....	MCHA	1R01 GM20250-01	26,531
ORGANIZATION TOTAL	11	337,045		
<b>OKLAHOMA CITY</b>				
<b>OKLAHOMA MEDICAL RESEARCH FOUNDATION      ZIP CODE 73104</b>				
ALAUPOVIC, PETAR.....	COMPOSITION AND STRUCTURE OF PLASMA LIPOPROTEINS.....	MET	5R01 HL06221-14	85,308
BRADFORD, REAGAN H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05538-13	94,128
CARPENTER, MARY P.....	METABOLISM OF THE TESTIS IN VITAMIN E DEFICIENCY.....	NTN	2R01 HD05641-13	35,478
CARUBELLI, RAOUL.....	PHYSIOLOGICAL ROLE OF MICROSOMAL SIALIC ACIDS.....	BIO	2R01 NS09176-12A2	22,474
FLOYD, ROBERT A.....	CARCINOGEN FREE RADICALS IN ARYLAMINE METABOLISM.....	BBCB	1R01 CA18591-01	39,456
GANESAN, DEVAKI N.....	LIPOPROTEIN LIPASE AND RELATED LIPOLYTIC ACTIVITIES.....	MET	5R01 HL15336-02	40,084
HARTSUCK, JEAN A.....	CRYSTAL STRUCTURE OF HUMAN SERUM ALBUMIN.....	BBCB	5R01 GM20883-02	21,113
JOHNSON, B CONNOR.....	GLYCOLIPID DERIVATIVES OF VITAMIN A.....	MCHB	5R01 AM17211-02	39,663
JOHNSON, B CONNOR.....	DIETARY CONTROL OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE.....	NTN	5R01 HL12138-05	40,320
JOHNSON, B CONNOR.....	VITAMIN K AND HUMAN PROTHROMBIN.....	HEM	5R01 HL16515-02	33,228
JOHNSON, B CONNOR.....	VITAMIN K ENZYME ACTIVATION OF FACTOR VII PRECURSOR.....	HEM	1R01 HL17619-01	42,856
KOLLMORGEN, GERALD M.....	IMMUNOTHERAPY COMBINED WITH SURGERY AND CHEMOTHERAPY.....	ET	5R01 CA14460-02	46,111
MC CAY, PAUL B.....	FATTY ACID METABOLISM IN TOCOPHEROL DEFICIENCY.....	NTN	5R01 AM06978-13	35,211
MC CAY, PAUL B.....	OXIDASE INHIBITORS IN VITAMIN E DEFICIENCY.....	NTN	5R01 AM08397-15	39,561
ONTKO, JOSEPH A.....	UPTAKE AND METABOLISM OF LIPIDS BY THE LIVER.....	MET	5R01 HL13302-06	49,662
SHAW, MICHAEL T.....	SOUTHWEST ONCOLOGY GROUP.....	CCI	1R10 CA16957-01	112,876
TANG, JORDAN J.....	STUDIES OF THE COMPONENTS OF HUMAN GASTRIC JUICE.....	PC	2R01 AM01107-19	65,576
TANG, JORDAN J.....	FACILITIES FOR THE STUDY OF THE PROPERTIES OF PROTEINS.....	PC	5R01 AM06487-13	25,511
TANG, JORDAN J.....	STRUCTURE AND FUNCTION OF MAMMALIAN CATHEPSIN D.....	PC	5R01 GM20212-02	21,630
WHAYNE, THOMAS F, JR.....	STUDIES ON METABOLISM OF APOLIPOPROTEIN A.....	MET	1R01 HL18178-01	43,254
ORGANIZATION TOTAL	20	933,500		
<b>UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER      ZIP CODE 73190</b>				
BOGARDUS, CARL R, JR.....	RADIATION THERAPY ONCOLOGY GROUP.....	CCI	5R10 CA12250-04	58,918
BULMER, GLENN S.....	PATHOGENESIS OF CRYPTOCOCCOSIS.....	BM	5R01 AI05022-12	26,390
COLEMAN, RONALD L.....	METALLOTHIONEIN IN PHYSIOLOGY AND TOXICOLOGY.....	TOX	1R01 ES00830-01A1	65,480
FERRETTI, JOSEPH J.....	A GENETIC APPROACH TO THE STUDY OF S. MUTANS.....	MBC	5R23 DE03697-03	11,400
FROHLICH, EDWARD D.....	PATHOPHYSIOLOGY OF ESSENTIAL HYPERTENSION.....	CVA	3R01 HL14511-03S1	7,300

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OKLAHOMA—Continued</b>				
FROHLICH, EDWARD D.....	HEMODYNAMIC RELATIONS TO METABOLISM IN HYPERTENSION.....	CVB	5R01 HL16478-02	125,868
HOLMES, DONALD D.....	ANIMAL RESOURCES IMPROVEMENT PROGRAM.....	AR	3P06 RR00732-01A1S1	27,469
HORN BROOK, KENT R.....	DRUG AND HORMONE EFFECTS ON CARBOHYDRATE METABOLISM.....	MET	5R01 AM16551-04	29,473
HOWARD, R PALMER.....	HISTORY OF HEALTH IN INDIAN AND OKLAHOMA TERRITORIES.....	SSS	2R01 LM01396-04	18,690
HOWES, ROBERT I, JR.....	ROOT FORMATION IN LOWER VERTEBRATE TOOTH TRANSPLANTS.....	DEN	5R01 DE03709-02	15,795
HUMPHREY, G BENNETT.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA11233-07	143,746
MAYES, JARY S.....	REGULATION OF GALACTOSE METABOLISM IN ANIMALS.....	MET	5R01 AM13325-05	41,283
MC CALLUM, RODERICK E.....	CARBOHYDRATE LOSS DURING EXPERIMENTAL ENDOTOXEMIA.....	BM	5R01 AI11238-02	27,205
METCOFF, JACK.....	PRESERVATION AND REGENERATION OF ISOLATED KIDNEYS.....	SGYA	5R01 AM15791-03	76,843
METCOFF, JACK.....	STUDY OF MATERNAL MALNUTRITION AND FETAL DEVELOPMENT.....	HDPB	5P01 HD06915-03	189,066
RILEY, HARRIS D, JR.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00062-13	498,991
SCHNEIDER, ROBERT A.....	AUTOMATIC PRESSURES IN AMBULATING HYPERTENSIVES.....	AFY	5R01 HL13034-06	31,557
SOKATCH, JOHN R.....	METABOLISM OF BRANCHED CHAIN AMINO ACIDS.....	MBC	5R01 AI11019-02	26,218
SOKATCH, JOHN R.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05411-14	137,452
STITH, REX D.....	BIOCHEMICAL RESPONSES OF BRAIN TO HYDROCORTISONE.....	END	5R01 NS10860-02	19,114
TAYLOR, FLETCHER B, JR.....	THROMBOSIS AND PLASMA PROTEINS.....	HEP	1P01 HL17812-01	373,987
TAYLOR, FLETCHER B, JR.....	ACTIVATION OF FIBRINOLYTIC SYSTEM.....	HEM	7R01 HL18025-01	53,979
THURMAN, WILLIAM G.....	EXPLORATORY STUDIES FOR CANCER RESEARCH.....	SRC	3P01 CA13749-02S1	37,930
ORGANIZATION TOTAL	23	2,044,154		

## STILLWATER

<b>OKLAHOMA STATE UNIVERSITY</b>		<b>ZIP CODE 74074</b>		
BEAMES, CALVIN G, JR.....	TRANSPORT MECHANISMS OF THE INTESTINE OF ASCARIS SUUM.....	PHY	1R01 AI12783-01	36,887
BERLIN, KENNETH D.....	PROPERTIES OF CYCLIC P CPDS-POTENTIAL CARCINOSTATS.....	MCHB	5R01 CA11967-11	40,393
BERLIN, KENNETH D.....	HETEROSTEROIDS - ANTICANCER AGENT POTENTIATORS.....	MCHA	5R01 CA14343-02	42,395
BUCKNER, RALPH G.....	ANIMAL HEMOPHILIA RESOURCE COLONY.....	AR	5R01 HL16622-08	70,292
CARRAWAY, KERMIT L.....	CHEMICAL STUDIES ON CELL MEMBRANES AND COMPONENTS.....	MBY	5R01 HL15687-06	32,597
EDMISON, MARVIN T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07077-10	22,844
GARNER, DUANE L.....	ENZYMOLGY OF MAMMALIAN SPERM ACROSOMES.....	REB	2R01 HD07481-04	51,631
JENNINGS, DAVID P.....	SUPRAOPTIC NEUROENDOCRINE MECHANISMS AND CELL TYPES.....	NEUA	1R01 NS11978-01	47,071
JONES, E WYNN.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05567-11	35,579
LYND, J Q.....	ANTIBIOSIC MUCOR ONCOLOGY OF MYCOTIC HEPATOMAGENESIS.....	TOX	5R01 ES00712-03	40,697
MAYER, GEORGE P.....	ENDOCRINE ASPECTS OF CALCIUM HOMEOSTASIS.....	GMB	2R01 AM16983-03	63,028
MONLUX, ANDREW W.....	SUPPORT FOR REGISTRY OF ANIMAL NEOPLASMS.....	EDC	2R01 CA13184-04	111,402
NELSON, ELDON C.....	STUDY OF METABOLISM OF VITAMIN A.....	NTN	2R01 AM09191-09	44,095
NEWCOMER, WILBUR S.....	HEREDITARY AUTOIMMUNE THYROIDITIS IN OBESE CHICKS.....	END	5R01 AM16918-02	23,718
ORTS, RICHARD J.....	ANTIFERTILITY EFFECTS OF A PINEAL ANTIGONADOTROPIN.....	REB	1R01 HD08745-01	31,007
SPIVEY, HOWARD O.....	PROPERTIES OF CONCENTRATED ENZYME SOLUTIONS.....	BIO	3R01 GM16916-04A1S1	5,397
WESTHAUS, PAUL A.....	EFFECTIVE INTERACTIONS IN LARGE MOLECULES.....	BBCA	5R01 GM19448-03	20,002
ORGANIZATION TOTAL	17	719,035		

## TAHLEQUAH

<b>NORTHEASTERN OKLAHOMA STATE UNIVERSITY</b>		<b>ZIP CODE 74464</b>		
SMITH, C CLINTON, JR.....	MINORITY STUDENT SCIENCE RESEARCH PROGRAM.....	GRS	3S06 RR08123-01S1	1,200
SMITH, C CLINTON, JR.....	MINORITY STUDENT SCIENCE RESEARCH PROGRAM.....	GRS	5S06 RR08123-02	79,057
ORGANIZATION TOTAL	2	80,257		
STATE TOTAL	74	4,227,272		

## OREGON

### BEAVERTON

<b>OREGON GRADUATE CENTER FOR STUDY AND RESEARCH</b>		<b>ZIP CODE 97005</b>		
HURST, JAMES K.....	FAST-KINETIC STUDIES OF ENZYME-CATALYZED REACTIONS.....	BBCA	2R01 GM18458-04	32,252

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OREGON—Continued</b>				
HURST, JAMES K.....	MECHANISMS OF BIOLOGICAL REDOX REACTIONS OF COPPER.....	BBCB	5R01 GM20943-02	31,244
LOEHR, THOMAS M.....	LASER RAMAN SPECTROSCOPY OF METALLOPROTEINS.....	BBCB	2R01 GM18865-04	57,444
ORGANIZATION TOTAL	3	120,940		
<b>CORVALLIS</b>				
<b>OREGON STATE HIGHER EDUCATION SYSTEM—OREGON STATE UNIVERSITY ZIP CODE 97331</b>				
ANDERSON, SONIA R.....	FLUORESCENCE STUDIES OF ENZYME STRUCTURE AND FUNCTION.....	BBCA	5R01 AM13912-05	33,600
BEAUREAU, GEORGE S.....	METABOLIC CHANGES INDUCED BY TUMOR VIRUS.....	VR	5R01 CA06999-12	52,737
BECKER, ROBERT R.....	ROLE OF UNIVALENT CATION SALTS IN NUTRITION.....	PC	5R01 AM08123-12	27,375
BROWN, LYLE R.....	GENETICS AND PHYSIOLOGY OF DEVELOPMENTAL MUTANTS.....	GEN	5R01 GM19617-03	43,085
BUHLER, DONALD R.....	METHYLMERCURY DETOXIFICATION IN MARINE MAMMALS.....	TOX	5R01 ES00887-03	32,534
CARDENAS, JANET M.....	IMBORN ERRORS AND PYRUVATE KINASE ISOZYMES.....	BIO	2R01 AM15645-04	42,165
DANIELS, MALCOLM.....	ROOM TEMPERATURE FLUORESCENCE OF NUCLEIC ACIDS & BASES.....	BBCA	5R01 GM20610-02	17,832
DOST, FRANK N.....	STEADY-STATE INTOXICATION BY SIMPLE HYDRAZINES.....	TOX	5R01 ES00841-02	46,638
FANG, SHENG C.....	PHOTOREACTION AND HERBICIDE METABOLISM.....	TOX	5R01 ES00654-02	29,066
FREED, VIRGIL H.....	TOXICOLOGY OF ENVIRONMENTAL CHEMICALS.....	SSS	2P01 ES00040-11	376,910
FREED, VIRGIL H.....	SUPPORT FOR ENVIRONMENTAL HEALTH CENTER.....	SSS	5P10 ES00210-08	613,665
ISENBERG, IRVIN.....	HISTONE INTERACTIONS AND CONFORMATION STUDIES.....	BBCA	5R01 CA10872-08	90,307
JOHNSON, WALTER C, JR.....	NUCLEIC ACIDS: THEIR CONFORMATION AND FUNCTION.....	BBCA	1R01 GM21479-01	37,420
KRUEGER, JAMES H.....	OXIDATION OF COORDINATED CYSTEINE AND CYSTEAMINE.....	MCHB	1R01 GM22063-01	27,851
NEWBURGH, ROBERT W.....	BIOCHEMISTRY OF NEURAL DEVELOPMENT.....	TMP	5R01 NS09161-19	30,001
PARKS, LEO W.....	ANALYSIS OF THE STEROL COMPONENTS OF YEAST.....	PC	2R01 AM05190-14A1	37,291
PATTON, NEPHI M.....	LABORATORY ANIMAL RESOURCES IMPROVEMENT PROGRAM.....	AR	1P06 RR00914-01	89,743
PEARSON, GEORGE D.....	REPLICATION MAP OF AN ONCOGENIC VIRUS.....	VR	1R01 CA17699-01	58,670
QUATRANO, RALPH S.....	BIOCHEMICAL BASIS FOR ESTABLISHMENT OF CELL POLARITY.....	MBY	2R01 GM19247-04	50,919
SCHAUP, HENRY W.....	MOLECULAR BASIS FOR PROTEIN-NUCLEIC ACID INTERACTIONS.....	BBCA	5R01 GM21380-02	26,834
SINNHUBER, RUSSELL O.....	METABOLISM AND CARCINOGENICITY OF AFLATOXINS.....	TOX	2R01 ES00541-05	108,028
SINNHUBER, RUSSELL O.....	METABOLISM AND COCARCINOGENICITY OF CYCLOPROPENES.....	TOX	2R01 ES00550-05	97,116
TERRIERE, LEON C.....	DETOXICATION MECHANISMS IN INSECTS.....	TOX	5R01 ES00362-17	53,835
THIES, RICHARD W.....	RING EXPANSION ROUTES TO 8,9,13,14-DISECOSTEROIDS.....	MCHA	5R01 HD08550-02	23,647
VAN HOLDE, KENSAL E.....	STRUCTURE AND FUNCTION OF RESPIRATORY PROTEINS.....	BBCB	5R01 HL12326-08	57,282
WEDMAN, E EDWARD.....	DEVELOPMENT OF LABORATORY ANIMAL DIAGNOSTIC SERVICES.....	AR	5P06 RR00726-02	38,397
WHANGER, PHILIP D.....	METABOLIC RELATIONSHIPS OF SELENIUM IN MYOPATHIES.....	NTN	5R01 NS07413-08	57,269
WHITE, JAMES D.....	SYNTHESIS OF METHYMYCIN.....	MCHB	5R01 AI10964-02	29,953
YOUNG, ROY A.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07079-10	55,848
ORGANIZATION TOTAL	29	2,286,018		
<b>EUGENE</b>				
<b>OREGON RESEARCH INSTITUTE ZIP CODE 97403</b>				
HOFFMAN, PAUL J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05612-07	103,623
ORGANIZATION TOTAL	1	103,623		
<b>OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON ZIP CODE 97403</b>				
BAIER, ANDREW S.....	STUDIES ON THE FUNCTION OF THE MITOTIC SPINDLE.....	CBY	1R01 GM21741-01	68,289
BARKER, DAVID L.....	NEUROCHEMISTRY OF GANGLION IN CULTURE.....	NEUB	5R01 NS10614-03	28,264
BECK, JACOB.....	VERNIER ACUITY AS AFFECTED BY ADAPTING TO GRATINGS.....	VISB	1R01 EY01351-01	25,607
BERNHARD, SIDNEY A.....	KINETIC ANALYSIS OF ENZYME CATALYSIS.....	BBCA	3R01 GM10451-11S1	10,030
BERNHARD, SIDNEY A.....	MOLECULAR INTERACTIONS IN SYNAPTIC TRANSMISSION.....	BBCA	1R01 NS12240-01	24,813
BOEKELHEIDE, VIRGIL C.....	SYNTHESES OF POTENTIAL ANTITUMOR AND ANTIVIRAL AGENTS.....	MCHA	5R01 CA15004-02	41,975
DOLBY, LLOYD J.....	THE TOTAL SYNTHESIS OF CEPHALOTAXINE.....	MCHA	5R01 CA13685-03	28,470
GORDON-LICKEY, BARBARA.....	SUPERIOR COLLICULUS AND THE CONTROL OF EYE MOVEMENTS.....	VISB	5R01 EY00125-06	47,957
GORDON-LICKEY, MARVIN.....	NEURAL MECHANISMS OF CIRCADIAN RHYTHMS.....	PHY	1R01 NS12374-01	45,137
GRIFFITH, O HAYES.....	SPIN LABELING AND MEMBRANE STRUCTURE.....	BBCB	5R01 CA10337-09	76,070
GRIFFITH, O HAYES.....	PHOTOELECTRON MICROSCOPY AND BIOLOGICAL SURFACES.....	BBCB	5R01 CA11695-06	74,599
HARRIS, PATRICIA J.....	MEMBRANE SYSTEMS IN MITOSIS.....	CBY	5R01 GM21152-02	9,922
HERBERT, EDWARD.....	NEUROENDOCRINE STUDIES IN CELL CULTURE SYSTEMS.....	END	5R01 AM16879-02	29,887
HERSKOWITZ, IRA.....	PHAGE-HOST INTERACTIONS AND CONTROL OF PHAGE GROWTH.....	VR	5R01 AI11344-03	28,166



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OREGON—Continued</b>				
KEANA, JOHN F.	NEW SPIN-LABELS FOR STUDYING BIOLOGICAL MEMBRANES	BBCB	1R01 CA17338-01	33,865
MARROCCO, RICHARD T.	PHYSIOLOGY OF VISUAL AFFERENT PATHWAYS	VISB	5R01 EY01286-02	26,969
MATTHEWS, BRIAN W.	REFINEMENT OF THE THIRD STRUCTURE OF THERMOLYSIN	BBCB	5R01 GM20066-03	19,753
MATTHEWS, BRIAN W.	STRUCTURE, FUNCTION AND STABILITY OF T4 PHAGE LYSOZYME	BBCB	1R01 GM21967-01	61,385
MUNZ, FREDERICK W.	GENETICS OF VISUAL PIGMENTS	VISB	2R01 EY00324-10	36,943
NOVICK, AARON	MOLECULAR BASIS OF CELLULAR REGULATORY MECHANISMS	SSS	5P01 GM15423-08	169,616
NOVICK, AARON	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07080-10	47,299
NOVITSKI, EDWARD	THE SYNTHESIS AND ANALYSIS OF CHROMOSOMES	GEN	2R01 GM18678-04	36,084
PETICOLAS, WARNER L.	LASER RAMAN SCATTERING FROM BIOLOGICAL MACROMOLECULES	BBCB	5R01 GM15547-08	51,188
POSTLETHWAIT, JOHN H.	GENE AND HORMONE CONTROL OF DROSOPHILA EGG PROTEINS	GEN	1R01 GM21548-01	63,060
SCHELLMAN, JOHN A.	INTERACTIONS OF NUCLEOTIDES AND PROTEINS	BBCA	3R01 GM20195-17S1	3,273
SCHELLMAN, JOHN A.	INTERACTIONS OF NUCLEOTIDES AND PROTEINS	BBCA	5R01 GM20195-18	62,208
STAHL, FRANKLIN W.	RECOMBINATIONAL INTERMEDIATES IN PHAGE LAMBDA	GEN	5R01 GM20373-02	21,652
STREISINGER, GEORGE	MOLECULAR MECHANISMS OF MUTATION	GEN	2R01 GM19795-03	48,613
VON HIPPEL, PETER H.	STRUCTURE AND RELATIONS OF PROTEINS AND NUCLEIC ACIDS	BBCA	5R01 GM15792-09	96,900
WESTON, JAMES A.	SURFACE MACROMOLECULAR CHANGES IN CELL TRANSFORMATION	CBY	1R01 CA16287-01A1	44,355
WIMBER, DONALD E.	CHROMOSOMAL STRUCTURE AND GENETIC REDUNDANCY	GEN	5R01 GM18829-04	20,435
WOLFE, RAYMOND G, JR.	CATALYTIC MECHANISM STUDIES, MALIC DEHYDROGENASE	PC	9R01 GM21460-17	38,050
WOLFE, RAYMOND G, JR.	ENZYME CATALYTIC MECHANISM STUDIES	PC	3R01 HL03226-16S1	3,171
ORGANIZATION TOTAL	33	1,424,005		
<b>MONMOUTH</b>				
<b>OREGON STATE HIGHER EDUCATION SYSTEM—OREGON COLLEGE OF EDUCATION ZIP CODE 97361</b>				
BANDICK, NEAL R.	SPONTANEOUS VASCULAR TONE DURING RENAL HYPERTENSION	CVA	5R01 HL14874-03	24,156
ORGANIZATION TOTAL	1	24,156		
<b>PORTLAND</b>				
<b>GOOD SAMARITAN HOSPITAL AND MEDICAL CENTER ZIP CODE 97210</b>				
BARMACK, NEAL H.	THE PERIPHERAL COMPONENTS OF EYE MOVEMENT CONTROL	VISB	2R01 EY00848-04	64,103
BELL, CURTIS C.	PHYSIOLOGICAL RELATIONS BETWEEN CEREBELLAR ELEMENTS	NEUB	2R01 NS06728-07	50,006
DOW, ROBERT S.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05593-08	25,396
RUSHMER, DONALD S.	STUDIES IN CEREBELLAR PHYSIOLOGY	NEUB	5R01 NS02289-16	117,211
ORGANIZATION TOTAL	4	256,716		
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE ZIP CODE 97215</b>				
GLASS, ANDREW G.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	5R10 CA14415-03	23,271
ORGANIZATION TOTAL	1	23,271		
<b>MEDICAL RESEARCH FOUNDATION OF OREGON ZIP CODE 97207</b>				
BEATTY, CLARISSA H.	EFFECTS OF PROSTAGLANDINS ON MYOMETRIAL METABOLISM	MET	5R01 HD06069-04	18,828
BEATTY, CLARISSA H.	SUBCELLULAR METABOLISM: FETAL AND ADULT MUSCLE	MET	2R01 HD06425-04	45,342
FAHRENBACH, WOLF H.	ORGANIZATION OF VISUAL CENTERS IN THE LIMULUS BRAIN	VISB	5R01 EY00392-08	21,463
HOLMAN, CHARLES N.	SUPPORT FOR REGIONAL PRIMATE RESEARCH CENTER	PME	5P06 RR00163-16	2,404,829
HOWARD, CHARLES F, JR.	RISK FACTORS AND ATHEROSCLEROSIS IN DIABETIC MONKEYS	PTHA	5R01 HL16661-02	66,790
HU, FUNAN	TISSUE CULTURE STUDIES OF HUMAN MELANOCYTES	CBY	3R01 CA08499-10S1	14,162
LA SALLE, MARJORIE	BLOOD GROUPING STUDIES IN PRIMATES	IMB	5R01 AM08764-11	39,467
MALLEY, ARTHUR	CLINICAL EVALUATION OF HAPTEN HYPOSENSITIZATION	IMB	5R01 AI09232-05	19,225
MONTAGNA, WILLIAM	THE BIOLOGY OF SKIN OF MAN AND OTHER PRIMATES	AMP	5P01 AM08445-11	215,175
MONTAGNA, WILLIAM	ANNUAL SYMPOSIA ON BIOLOGY OF THE SKIN	DER	5R13 AM09431-10	9,000
MONTAGNA, WILLIAM	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05694-06	205,378
PORTMAN, OSCAR W.	EXPERIMENTAL VASCULAR SCLEROSIS	NTN	5R01 HL09744-11	107,270
RESKO, JOHN A.	STEROID HORMONES AND FETAL DEVELOPMENT	END	5R01 HD07658-02	25,476
SPIES, HAROLD G.	EVENTS THAT CONTROL FERTILIZATION	HDPR	5P01 HD05969-04	177,571
SPIES, HAROLD G.	EVENTS THAT CONTROL FERTILIZATION	HDPR	2P01 HD05969-05	333,422
SPIES, HAROLD G.	NEURAL INFLUENCE ON HYPOPHYSEAL-GONADAL FUNCTION	REB	5R01 HD07602-03	132,729
ORGANIZATION TOTAL	16	3,836,127		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OREGON—Continued</b>				
<b>OREGON OPTOMETRIC CENTER      ZIP CODE 97205</b>				
GOLLENDER, MORTON.....	DEVELOPMENT STUDIES OF STEREOSCOPIC VISION.....	VISB	5R01 EY01498-02	43,448
ORGANIZATION TOTAL	1      43,448			
<b>OREGON STATE HIGHER EDUCATION SYSTEM—PORTLAND STATE UNIVERSITY      ZIP CODE 97207</b>				
LAMB, NEVEN P.....	CHANGING MATING BOUNDARIES AMONG THE PAPAGO INDIANS.....	POP	5R01 HD08967-02	9,672
SMEJTEK, PAVEL.....	PESTICIDES AND TRANSPORT ACROSS BILAYER LIPID MEMBRANES....	BBCB	5R01 ES00937-02	44,929
ORGANIZATION TOTAL	2      54,601			
<b>OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON HEALTH SCIENCES CENTER      ZIP CODE 97201</b>				
BARDANA, EMIL J, JR.....	PRIMARY BINDING TESTS TO ASSAY CIRCULATING ANTIBODIES.....	BM	5R01 AI10940-03	39,575
BENTLEY, J PETER.....	CANCER SPREADING FACTORS AS A TARGET FOR ZINC THERAPY.....	PC	5R01 CA15290-02	54,602
BLACK, JOHN A.....	NATURE OF PYRUVATE KINASE ISOZYME CHANGE IN NEOPLASIA.....	BIO	5R01 CA15739-02	43,565
BLACK, JOHN A.....	THE ROLE OF PROTEIN DEGRADATION IN NEOPLASIA.....	SSS	1R01 CA16558-01	25,600
BROOKHART, JOHN M.....	NEURAL MECHANISMS OF POSTURAL CONTROL.....	NEUB	2R01 NS04744-12A1	65,005
BURNS, ROBERT P.....	BIOCHEMICAL CYTOLOGY OF METABOLIC EYE DISEASES.....	VISA	5R01 EY00753-03	62,202
CAMPBELL, ROBERT A.....	POLYAMINE RADIOIMMUNOASSAY IN CANCER.....	SSS	5R01 CA16328-02	54,720
CREAMER, HOWARD R.....	CREVICULAR PLAQUE: ITS ROLE IN IMMUNOSUPPRESSION.....	GEN	5R01 DE03978-02	27,645
CRITCHLOW, B VAUGHN.....	NEURAL REGULATION OF ANTERIOR PITUITARY FUNCTIONS.....	END	5R01 AM16794-03	57,118
DAWSON, PETER J.....	PATHOLOGY OF LYMPHOID NEOPLASMS DERIVED FROM T & B CELLS.....	PTHB	5R01 CA15072-02	35,705
DENNEY, DUANE D.....	TILT EFFECTS ON ORIENTATION SELECTIVITY OF VISUAL CELLS.....	CMS	5R01 EY00956-04	26,859
DOTTER, CHARLES T.....	APPLIED HEMODYNAMICS IN CARDIOVASCULAR RADIOLOGY.....	CVA	5R01 HL03275-17	36,707
FABER, JAN J.....	CONVECTION AND DIFFUSION IN THE VERTEBRATE EMBRYO.....	HED	5R01 HD06313-04	17,366
FABER, JAN J.....	PLACENTAL TRANSFER OF HYDROPHILIC MATERIALS.....	HED	2R01 HD06689-03	32,155
FABER, JAN J.....	FETAL WATER METABOLISM.....	HED	1R01 HD09428-01	63,670
FABER, JAN J.....	PRENATAL HEMODYNAMICS.....	CYB	5R01 HL13444-05	32,812
FAUST, CHARLES H, JR.....	GENE EXPRESSION IN NORMAL AND MALIGNANT ANIMAL CELLS.....	GEN	1R01 CA17401-01	133,039
FEENEY, LYNETTE.....	SULFATED GLYCOLIPIDS AND AQUEOUS HUMOR SECRETION.....	PC	1R01 EY01638-01	40,340
FELLMAN, J H.....	AROMATIC AMINO ACID METABOLISM AND AROMATIC AMINES.....	PC	2R01 NS01572-18	91,171
FLETCHER, WILLIAM S.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12279-05	101,068
FLETCHER, WILLIAM S.....	STUDIES IN BREEDING LARGE ANIMALS FOR MEDICAL RESEARCH.....	AR	3R01 RR00389-07S1	147,360
GABLER, WALTER L.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05336-14	36,745
GABOUREL, JOHN D.....	IMMUNOSUPPRESSANT EFFECTS OF SEDATIVE HYPNOTIC DRUGS.....	ET	5R01 CA14360-03	45,855
GREER, MONTE A.....	NEUROENDOCRINE AND THYROID PHYSIOLOGY.....	END	5R01 AM01447-20	96,818
HAMMERSTAD, JOHN P.....	AMINO ACIDS AS NEUROTRANSMITTERS.....	NEUA	5R01 NS11264-02	33,462
HANIFIN, JON M.....	IGE-LYMPHOCYTE INTERACTIONS IN ATOPIC DERMATITIS.....	ALY	1R01 AI12896-01	29,135
HECHT, FREDERICK.....	CYTOGENETICS OF CLONAL NEOPLASIAS.....	GEN	1R01 CA16747-01	68,584
HODGES, CLARENCE V.....	NATIONAL COLLABORATIVE STUDY OF CANCER OF THE BLADDER.....	BP	5R26 CA15491-02	12,080
HOLMAN, CHARLES N.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00334-09	366,837
HOLMAN, CHARLES N.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05412-14	216,597
IGLEWSKI, BARBARA H.....	CONTROL OF TOXIN PRODUCTION IN VIRAL-INFECTED CELLS.....	BM	5R01 AI11337-03	32,575
IGLEWSKI, WALLACE J.....	SELECTIVE INTOXICATION OF VIRUS TRANSFORMED CELLS.....	VR	1R01 CA17271-01	54,380
IRWIN, JAMES W.....	INFRARED EMISSIVITY OF TEETH AND INTRAORAL MUCOSA.....	RAD	3R01 DE03969-01S1	2,610
IRWIN, JAMES W.....	INFRARED EMISSIVITY OF TEETH AND INTRAORAL MUCOSA.....	RAD	5R01 DE03969-02	41,803
JACOB, STANLEY W.....	STUDIES IN CRYOBIOLOGY.....	SGYB	5R01 AM09136-16	64,191
JONES, RICHARD T.....	HEMOGLOBIN: STRUCTURE, FUNCTION AND GENETIC CONTROL.....	SSS	1R01 AM17850-01	66,360
KABAT, DAVID.....	CONTROL OF GENE EXPRESSION IN DIFFERENTIATING CELLS.....	MBY	2R01 HL14960-07	74,857
KENDALL, JOHN W.....	NEURAL CONTROL OF ACTH RELEASE.....	END	5R01 AM08547-09	46,714
KOLER, ROBERT D.....	MALIGNANT AND GENETIC ALTERATIONS IN HUMAN CELLS.....	SSS	3P01 AM13173-10S1	77,110
KOLER, ROBERT D.....	GENETIC ALTERATIONS IN HUMAN RED CELLS.....	HEM	1R01 AM18006-01	45,593
KRIPPAEHN, WILLIAM W.....	EFFECT OF FUNCTION ON GRAFTS AND IMPLANTS OF COLLAGEN.....	SGYB	3R01 HL14126-13S1	140
KRIPPAEHN, WILLIAM W.....	EFFECT OF FUNCTION ON GRAFTS AND IMPLANTS OF COLLAGEN.....	SGYB	5R01 HL14126-14	51,895
LESLIE, GERRIE A.....	MODULATION OF IMMUNITY TO GROUP A STREPTOCOCCI.....	BM	5R01 AI12273-02	32,055
LEUNG, BENJAMIN S.....	PROLACTIN-ESTROGEN INTERACTION IN BREAST CARCINOMA.....	END	1R01 CA16130-01A1	29,750
LINMAN, JAMES W.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	5R10 CA10186-09	67,022
LIS, ADAM W.....	UV-ABSORBING COMPONENTS IN URINE.....	MCHB	5R01 HD07378-03	47,157
LITT, MICHAEL.....	CONTROL OF TRANSFER RNA LEVELS IN MAMMALIAN CELLS.....	SSS	1R01 CA16557-01	26,085
LOVRIEN, EVERETT W.....	GENETIC LINKAGE ANALYSIS IN SELECTED FAMILIES.....	GEN	5R01 HD08237-02	68,088
MAGENIS, R ELLEN.....	HUMAN CHROMOSOME MAPPING AND BEHAVIOR.....	GEN	5R01 HD07997-02	59,069

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>OREGON—Continued</b>				
MAHLER, DAVID B.....	CLINICAL BEHAVIOR OF DENTAL RESTORATIVE MATERIALS.....	DEN	5R01 DE02320-10	49,272
MAHLER, DAVID B.....	MARGINAL FRACTURE OF DENTAL AMALGAM.....	DEN	5R01 DE02936-07	31,745
MASON, HOWARD S.....	MECHANISMS OF OXYGEN METABOLISM.....	BIO	2R01 AM07180-13	113,793
MC HUGH, PAUL R.....	HYPOTHALAMUS IN FEEDING BEHAVIOR.....	NTN	1R01 AM18554-01	36,203
METCALFE, JAMES.....	EXERCISE HEMODYNAMICS AND RESPIRATION IN PREGNANCY.....	HED	5R01 HD08025-02	62,037
METCALFE, JAMES.....	BLOOD OXYGEN AFFINITY AND MYOCARDIAL OXYGEN SUPPLY.....	CVA	1R01 HL18275-01	47,280
PARKER, RICHARD B.....	INTERACTIONS OF THE MICROBIOTA.....	BM	5R01 DE01784-13	27,570
PEARSON, ANTHONY A.....	THE DEVELOPMENT OF THE NERVOUS SYSTEM.....	HED	5R01 HD07277-03	6,552
PIROFSKY, BERNARD.....	SELECTIVE ERYTHROCYTE REPOPULATION.....	HEM	5R01 AM16124-02	43,793
RAHIMTOOLA, SHAHBUDIN H.....	CARDIOVASCULAR PROGRAM PROJECT.....	HEP	5P01 HL06336-15	538,594
RIKER, WILLIAM K.....	CARTILAGE-SELECTIVE RADIOCONTRAST AGENTS.....	RAD	5R01 GM20022-03	42,195
RITTENBERG, MARVIN B.....	TOXIN CANCER CHEMOTHERAPY IN IMMUNOPROTECTED ANIMALS.....	SSS	1R01 CA17228-01	63,881
SATO, MAKOTO.....	NEUROPHARMACOLOGY OF THE POSTSYNAPTIC MEMBRANES.....	NEUB	5R01 NS01687-17	48,558
SAVARA, BHIM S.....	SIGNIFICANCE OF VARIATION DURING CHILD GROWTH.....	DEN	5R01 HD00157-14	82,180
SEAMAN, GEOFFREY V.....	RHEOLOGICAL BEHAVIOR OF ERYTHROCYTE SUSPENSIONS.....	CVA	5R01 HL15855-03	27,822
SEAMAN, GEOFFREY V.....	AGING ERYTHROCYTES: BIORECOGNITION AND ELIMINATION.....	HEM	1R01 HL18284-01	65,761
SHEARER, THOMAS R.....	METABOLIC EFFECTS OF SELENIUM ON DENTAL CARIES.....	NTN	2R01 DE03536-03	20,472
SHEARER, THOMAS R.....	FLUORIDE-SELENIUM INTERACTION IN DENTAL CARIES.....	DEN	5R01 DE03856-02	19,409
SMITH, CATHERINE A.....	STRUCTURE AND FUNCTION OF THE INNER EAR.....	CMS	5R01 NS08813-06	85,668
STARR, ALBERT.....	LATE RESULTS OF VALVE REPLACEMENT: COMPUTER ANALYSIS.....	EDC	5R01 HL16461-02	135,047
VAN BRUGGEN, JOHN T.....	ROLE OF SOLUTE DRAG IN BIOLOGICAL TRANSPORT.....	PHY	1R01 AM18038-01	38,770
VERNON, JACK A.....	INVESTIGATION OF AGENTS WHICH DAMAGE THE EAR.....	CDR	3P01 NS09889-04S1	3,700
WEIMAR, VIRGINIA L.....	REACTION OF CORNEAL CELLS TO INJURY.....	VIS	5R01 EY00238-14	85,249
WEITLAUF, HARRY M.....	METABOLIC CHANGES IN PREIMPLANTATION MOUSE EGGS.....	REB	5R01 HD08496-02	34,537
YATSU, FRANK M.....	EXPERIMENTAL STROKE: NEUROCHEMISTRY OF BRAIN ISCHEMIA.....	NEUA	7R01 NS12755-01	58,081
ORGANIZATION TOTAL	74	4,750,020		
<b>REED COLLEGE ZIP CODE 97202</b>				
ARCH, STEPHEN W.....	REGULATORY PHYSIOLOGY AND BIOCHEMISTRY IN NERVE CELLS.....	NEUB	5R01 NS11149-02	19,950
BLOCH, WILL.....	USE OF HYBRID ENZYMES TO STUDY SUBUNIT INTERACTION.....	BIO	1R01 GM22077-01	33,260
GWILLIAM, GILBERT F.....	NEURAL ACTIVITY AND BEHAVIOR.....	PHY	5R01 NS08610-05	19,933
KLEINHOLZ, LEWIS H.....	NEUROSECRETION AND ENDOCRINE PHYSIOLOGY.....	PHY	2R01 NS02606-16	50,899
RUBEN, LAURENS N.....	THE EVOLUTION AND DEVELOPMENT OF IMMUNE RESPONSES.....	IMB	1R01 AI12846-01	65,625
ORGANIZATION TOTAL	5	189,667		
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 97207</b>				
MASS, ROBERT E.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	5R10 CA14438-03	14,106
ORGANIZATION TOTAL	1	14,106		
STATE TOTAL	171	13,126,698		
<b>PENNSYLVANIA</b>				
<b>BETHLEHEM</b>				
<b>LEHIGH UNIVERSITY ZIP CODE 18015</b>				
CHENG, THOMAS C.....	DEFENSE MECHANISMS IN MOLLUSCS IN RELATION TO BIOCONTROL.....	TMP	1R01 AI12355-01A1	45,763
KRAWIEC, STEVEN S.....	CORRELATION OF THERMAL ENVIRONMENT AND RNA STRUCTURE.....	BBCA	5R01 GM19856-02	16,366
ORGANIZATION TOTAL	2	62,129		
<b>BRYN MAWR</b>				
<b>BRYN MAWR COLLEGE ZIP CODE 19010</b>				
KANEY, ANTHONY R.....	GENETIC ANALYSIS OF CYANOPHYTES.....	GEN	3R01 GM17715-04S1	497
OLDS, PATRICIA J.....	STUDIES OF MAMMALIAN FERTILIZATION.....	REB	1R01 HD09156-01	22,803
WANNEMACHER, JILL T.....	PROCESSING STRATEGIES IN PICTURE-SENTENCE MATCHING.....	DBR	1R01 HD08628-01	18,138
WILKENS, LON A.....	SYNAPTIC INTEGRATION IN A BIMODAL SENSORY INTERNEURON.....	NEUB	5R01 NS11751-02	16,885
ORGANIZATION TOTAL	4	58,323		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
<b>GLENSIDE</b>				
<b>BEAVER COLLEGE      ZIP CODE 19038</b>				
CARR, WILLIAM J.....	ROLE OF PHEROMONES IN RODENT COMMUNICATION.....	EXP	5R01 HD07043-02	31,704
ORGANIZATION TOTAL	1                      31,704			
<b>HAVERFORD</b>				
<b>HAVERFORD COLLEGE      ZIP CODE 19041</b>				
DUNATHAN, HARMON C.....	PYRIDOXAL PHOSPHATE CATALYSIS.....	PC	5R01 GM20184-11	36,845
FINGER, IRVING.....	SURFACE PROTEIN TRANSFORMATION.....	MBY	5R01 GM21016-02	33,530
FINGER, IRVING.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07141-04	24,234
LOEWY, ARIEL G.....	DISTRIBUTION AND FUNCTION OF THE ISOPEPTIDE BOND.....	HEM	5R01 HL04385-16	71,657
SANTER, MELVIN.....	PRIMARY STRUCTURE ANALYSIS OF RIBOSOMES.....	BIO	3R01 GM11738-10S1	6,212
ORGANIZATION TOTAL	5                      172,478			
<b>HERSHEY</b>				
<b>PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER      ZIP CODE 17033</b>				
BAIRD, IRWIN L.....	ANATOMICAL STUDIES OF THE INTERNAL EAR.....	SSS	5R01 NS07860-08	40,969
BARDIN, C WAYNE.....	PRODUCTION AND ACTION OF ANDROGENS IN REPRODUCTION.....	REB	3R01 HD05276-04S1	7,962
BARDIN, C WAYNE.....	PRODUCTION AND ACTION OF ANDROGENS IN REPRODUCTION.....	REB	2R01 HD05276-05	99,693
BARTLETT, GERALD L.....	ANTIGENIC STRENGTH OF NONVIRAL TUMORS.....	PTHB	5R01 CA14782-03	46,206
COMBS, JOHN W.....	CELL POPULATION KINETICS OF TUMOR REGRESSION.....	RAD	1R01 CA17341-01	43,737
CONNOR, JOHN D.....	DEVELOPMENT OF NEURON INTERACTIONS IN MATURING BRAIN.....	NEUA	5R01 NS08884-06	42,682
DAVIDSON, EUGENE A.....	BIOCHEMISTRY OF MUCOPOLYSACCHARIDES.....	PC	5R01 CA15483-08	131,969
DUNN, EDWARD J.....	A SEGMENTAL POROUS PROSTHETIC IMPLANT FOR LONG BONES.....	AFY	1R01 AM18503-01	31,862
GLASER, M RONALD.....	INTERACTION OF DNA TUMOR VIRUSES AND CELL GENOMES.....	VR	5R01 CA15038-02	52,293
HASS, LOUIS F.....	STUDIES ON THE CONTROL OF SICKLE CELL CRISIS.....	HEM	5R01 HL16647-02	83,899
HEPNER, GERSHON W.....	BILE SECRETION AND ENTEROHEPATIC CIRCULATION OF DRUGS.....	GMA	5R01 AM17303-02	77,837
HERNANDEZ, MILTON J.....	CEREBRAL BLOOD FLOW AND METABOLISM IN ATHEROSCLEROSIS.....	NEUA	1R01 NS11958-01A1	48,668
HILL, CHARLES W.....	GENETICS AND BIOCHEMISTRY OF MISSENSE SUPPRESSION.....	GEN	5R01 GM16329-07	59,521
HYMAN, RICHARD W.....	MALIGNANCY AND DNA HOMOLGY AMONG THE HERPES VIRUSES.....	VR	1R01 CA16498-01	56,693
JACOB, SAMSON T.....	MITOCHONDRIAL POLYADENYLATE POLYMERASE IN NEOPLASIA.....	BIO	5R01 CA15733-02	49,669
JACOB, SAMSON T.....	MITOCHONDRIAL RNA POLYMERASE OF RAT LIVER AND TUMORS.....	BIO	9R01 CA16438-03	38,794
JEFFERSON, LEONARD S, JR.....	REGULATION OF LIVER GROWTH AND FUNCTION.....	MET	5R01 AM13499-07	49,858
JEFFERSON, LEONARD S, JR.....	REGULATIONS OF SKELETAL MUSCLE METABOLISM.....	SSS	2R01 AM15658-04	49,096
KREIDER, JOHN W.....	CELL DIFFERENTIATION AND NEOPLASIA.....	PTHB	5R01 CA11097-06	55,966
LADDA, ROGER L.....	GROWTH FACTORS: CONTROL OF ANIMAL CELL PROLIFERATION.....	SSS	1R01 HD09232-01	75,863
LANG, C MAX.....	LABORATORY ANIMAL DIAGNOSTIC RESOURCE.....	AR	5P06 RR00469-07	96,161
LANOUE, KATHRYN F.....	CONTROL OF ANION TRANSPORT IN MITOCHONDRIA.....	BIO	1R01 GM22158-01	47,465
LAUSCH, ROBERT N.....	ANALYSIS OF THE ANTITUMOR EFFECT OF CYCLOPHOSPHAMIDE.....	ET	5R01 CA14188-03	64,784
LAUSCH, ROBERT N.....	IMMUNOLOGY OF CYTOMEGALOVIRUS TUMOR ANTIGENS.....	IMB	1R01 CA17706-01	90,885
LEURE-DU PREE, ALPHONSE E.....	RETINAL ZINC: CELLULAR LOCATION AND VISUAL FUNCTION.....	VISB	1R01 EY01438-01	31,682
LIPTON, ALLAN.....	CONTROL OF GROWTH OF MALIGNANT CELLS BY SERUM FACTORS.....	MBY	5R01 CA15858-02	80,692
LIU, DAI K.....	MODE OF ACTION OF ALDOSTERONE IN KIDNEY AND HEART.....	GMB	1R01 AM17644-01A1	49,165
MC PHERSON, ALEXANDER.....	X-RAY CRYSTALLOGRAPHIC ANALYSES OF PROTEIN STRUCTURE.....	BBCB	3R01 GM21398-01S1	2,529
MORGAN, HOWARD E.....	MECHANISM OF CARDIAC HYPERTROPHY.....	CVA	5R01 HL11534-08	71,917
MORGAN, HOWARD E.....	METABOLIC REGULATION OF SUGAR TRANSPORT.....	MET	2R01 HL13029-06	46,081
MORGAN, HOWARD E.....	METABOLISM OF PROTEIN DEGRADATION IN HEART.....	MET	1R01 HL18258-01	64,358
MORTIMORE, GLENN E.....	REGULATION OF PROTEIN TURNOVER IN LIVER.....	MET	5R01 AM16356-03	74,613
MUNGER, BRYCE L.....	HISTOPHYSIOLOGY AND PATHOGENESIS OF DIABETES MELLITUS.....	MET	2R01 AM11407-09	79,566
NAEYE, RICHARD L.....	LUNG MATURATION, HORMONAL AND OTHER INFLUENCES.....	HED	5R01 HD06201-04	43,889
NAEYE, RICHARD L.....	ENVIRONMENTAL FACTORS AND PERINATAL MORTALITY.....	HED	5R01 HD08139-02	110,848
NAEYE, RICHARD L.....	THE ARTERIOLAR BASIS FOR MICROCIRCULATORY DISORDERS.....	CVA	5R01 HL14297-04	30,152
NEELY, JAMES R.....	REGULATION OF MYOCARDIAL FATTY ACID METABOLISM.....	MET	5R01 HL13028-06	47,397
NEELY, JAMES R.....	REGULATION OF METABOLISM IN OXYGEN DEFICIENT HEARTS.....	MET	1R01 HL18206-01	69,044
PATTERSON, JOHN I.....	BIOMEDICAL COMPUTING RESOURCE.....	COM	2P07 RR00576-04	42,729
PIERCE, WILLIAM S.....	LEFT VENTRICULAR BYPASS FOR MYOCARDIAL INFARCTION.....	SGYB	5R01 HL13426-05	54,820

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
PRYSTOWSKY, HARRY	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05680-07	188,186
RAPP, FRED	THE CHARACTERIZATION OF MEASLE'S VIRUS LATENCY	SSS	5R01 AI12203-02	57,895
RAPP, FRED	STUDY OF THE REPLICATION OF VIRUSES	VR	5R01 CA11647-06	76,924
RAPP, FRED	ETIOLOGY OF PROSTATE TUMORS	SRC	5R26 CA16365-02	102,012
ROARK, DENNIS E.	BIOPHYSICAL STUDIES OF NUCLEOHISTONES	BBCA	3R01 GM18456-04S1	4,851
ROHNER, THOMAS J, JR	EXCITATION-CONTRACTION COUPLING IN BLADDER AND URETER	SGYA	5R01 AM14934-05	45,753
ROSE, RICHARD C.	ION TRANSPORT BY GASTROINTESTINAL EPITHELIA	PHY	5R01 AM15926-03	33,014
ROSENBERG, ABRAHAM G.	COMPLEX GLYCOLIPIDS OF BRAIN AND RELATED SYSTEMS	PC	5R01 NS08258-07	107,060
SCHENGRUND, CARA-LYNNE	GLYCOPHINGOLIPID BIOCHEMISTRY IN TRANSFORMED CELLS	PC	5R01 CA14319-03	50,747
SHIMAN, ROSS	REGULATION OF TYROSINE SYNTHESIS IN HEPATOMA CELLS	BIO	5R01 CA14881-03	55,328
SMITH, STEVEN J.	EFFECTS OF CARCINOGENS ON PROCESSING OF RIBOSOMAL RNA	PTHB	1R01 CA16804-01	47,299
TAYLOR, JOHN M.	CONTROL OF ALBUMIN SYNTHESIS IN LIVER AND HEPATOMAS	PC	1R01 CA16746-01	66,447
THOMPSON, CARL I.	ADULT BEHAVIORS AFTER AMYGDALECTOMY IN INFANCY	EXP	1R01 NS12001-01	13,334
VAN BUSKIRK, E MICHAEL	THE VERTEBRATE EYE: STUDIES OF AQUEOUS OUTFLOW	VISA	1R01 EY01563-01	45,560
VANNUCCI, ROBERT C.	OXIDATIVE METABOLISM IN BRAINS OF PERINATAL ANIMALS	HED	1R01 HD09109-01	47,846
VESELL, ELLIOT S.	DRUG METABOLISM IN HUMAN LIVER TUMORS	ET	1R01 CA16536-01	49,463
WEISZ, JUDITH	STEROID METABOLITES AND LIMBIC SYSTEM FUNCTION	END	9R01 HD09542-03	78,565
ZELIS, ROBERT F.	PERIPHERAL CIRCULATION IN HEART FAILURE	CVA	1R01 HL17853-01	27,478
ZELIS, ROBERT F.	NARCOTICS AND THE CIRCULATION	CVA	1R01 HL17954-01	28,191
ORGANIZATION TOTAL	59 3,467,967			
<b>HONEY BROOK</b>				
<b>FEDERATED MEDICAL RESOURCES ZIP CODE 19344</b>				
WAMPLER, STANLEY N.	ANIMAL RESOURCE CENTER PROGRAM	AR	5P06 RR00843-02	47,500
ORGANIZATION TOTAL	1 47,500			
<b>LANCASTER</b>				
<b>FRANKLIN AND MARSHALL COLLEGE ZIP CODE 17604</b>				
KING, DAVID B.	ENDOCRINE REGULATION OF MUSCLE GROWTH	END	3R01 AM10948-05S1	2,950
KING, DAVID B.	THYROIDAL INFLUENCE ON SKELETAL MUSCLE GROWTH	END	2R01 AM10948-06	41,999
ORGANIZATION TOTAL	2 44,949			
<b>LANCASTER CLEFT PALATE CLINIC ZIP CODE 17602</b>				
COOPER, HERBERT K, SR	CLINICAL CENTER FOR ORAL-FACIAL-COMMUNICATIVE DISORDERS	SSS	5P02 DE02172-11	342,000
ORGANIZATION TOTAL	1 342,000			
<b>ST. JOSEPH HOSPITAL ZIP CODE 17604</b>				
COLEMAN, MARY P.	INVESTIGATIONS OF VITAMIN B6 IN DOWN'S SYNDROME	NEUB	5R01 NS10720-02	42,272
EISENBERG, RITA B.	INFANT PERCEPTION OF SPEECH AND NONSPEECH SOUNDS	DBR	2R01 HD00732-10A2	84,039
SUNDARESAN, P RAMNATHAN	METABOLISM OF RETINOL AND RETINOIC ACID	NTN	5R01 AM13557-05	49,178
ORGANIZATION TOTAL	3 175,489			
<b>LEWISBURG</b>				
<b>BUCKNELL UNIVERSITY ZIP CODE 17837</b>				
HEINE, HAROLD W.	THE REACTIONS AND SYNTHESIS OF DIAZIRIDINES	MCHA	5R01 CA15880-02	24,662
WINSTED, MELDRUM B.	SYNTHESIS AND SCINTIGRAPHIC STUDY OF 11C COMPOUNDS	MCHA	5R01 GM20073-02	18,598
ORGANIZATION TOTAL	2 43,260			
<b>LINCOLN UNIVERSITY</b>				
<b>LINCOLN UNIVERSITY ZIP CODE 19352</b>				
JOHNSON, WILLIAM T.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	GRS	5S06 RR08002-04	134,940
ORGANIZATION TOTAL	1 134,940			

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
<b>PHILADELPHIA</b>				
<b>ACADEMY OF NATURAL SCIENCES</b>	<b>ZIP CODE 19103</b>			
DAVIS, GEORGE M.	ANALYSIS OF MOLLUSC FAUNAS & S.E. ASIAN SCHISTOSOMIASIS	TMP	5R22 AI11373-03	14,756
ORGANIZATION TOTAL	1 14,756			
<b>ALBERT EINSTEIN MEDICAL CENTER</b>	<b>ZIP CODE 19141</b>			
BAER, SAMUEL	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	TEC	3R01 HL10233-09S1	3,291
FREEMAN-NARROD, MARIAN	TOXICITY OF METHOTREXATE AND ITS POSSIBLE PREVENTION	ET	7R01 CA18814-01	42,323
GOLDNER, HERMAN	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05505-13	63,598
SLOAN, BRUCE P.	EXPERIMENTAL EMPHYSEMA: ENZYME-SUBSTRATE REQUIREMENTS	YIP	1R23 HL18362-01	27,867
TABACHNICK, JOSEPH	SUPPRESSION OF FIBROSIS IN CHRONIC RADIODERMATITIS	RAD	2R01 AM15669-04A1	70,121
ORGANIZATION TOTAL	5 207,200			
<b>CHILDREN'S HOSPITAL OF PHILADELPHIA</b>	<b>ZIP CODE 19104</b>			
ASAKURA, TOSHIO	BIOPHYSICAL - CLINICAL STUDY OF ABNORMAL HEMOGLOBINS	BBCB	5R01 HL16734-02	45,944
ASAKURA, TOSHIO	MECHANISM OF OXYGEN SUPPLY TO TISSUE	BBCB	7R01 HL18226-01	39,405
BAKER, LESTER	STUDIES OF UNEXPLAINED HYPOGLYCEMIA IN CHILDREN	MET	2R01 AM13518-13	70,866
BONGIOVANNI, ALFRED M.	HORMONAL FUNCTION IN GROWTH AND DEVELOPMENT IN CHILDHOOD	END	5R01 HD00371-21	71,120
CORNFELD, DAVID	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	CLR	5M01 RR00240-11	291,648
DONALDSON, MILTON H.	COOPERATIVE STUDY OF CHILDREN'S CANCER	CCI	2R10 CA11796-06	138,100
EVANS, AUDREY E.	THE BIOLOGY OF HUMAN NEUROBLASTOMA	PTHA	5R01 CA13451-03	73,070
EVANS, AUDREY E.	PEDIATRIC CANCER RESEARCH CENTER	CAP	5P02 CA14489-02	334,570
GLICK, MARY C.	GLYCOPROTEIN METABOLISM IN CYSTIC FIBROSIS	MBY	5R01 AM16859-02	67,334
GLICK, MARY C.	ROLE OF THE SURFACE MEMBRANE IN CELLULAR BEHAVIOR	MBY	5R01 CA14037-02	47,846
GOLDMAN, ALLEN S.	FETAL SEXUAL DIFFERENTIATION	END	3R01 HD04683-05S1	6,463
GOODMAN, DAVID B.	MEMBRANE TURNOVER/REPAIR IN NORMAL AND MALIGNANT CELLS	MBY	5R01 CA13445-02	46,809
HARRIS, T. N.	IMMUNOBIOLOGY OF ALLOGRAFT REJECTION IN THE MOUSE	IMB	5R01 AI11466-03	66,459
HARRIS, T. N.	EFFECTS OF ANTITUMOR ANTIBODIES ON TUMOR TRANSPLANTS	IMB	5R01 CA14487-03	68,046
HARRIS, T. N.	IMMUNE INJURY OF TUMOR CELLS: MECHANISM, APPLICATIONS	SSS	1R01 CA17181-01	37,902
HENLE, WERNER	RELATION OF EPSTEIN-BARR VIRUS TO HUMAN MALIGNANCIES	VR	5R01 CA04568-17	234,285
HUMMELER, KLAUS	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05506-13	138,357
KOLDOVSKY, OTAKAR	METABOLISM OF THE DEVELOPING SMALL INTESTINE	NTN	5R01 AM14531-05	78,762
PLOTKIN, STANLEY A.	HUMAN CYTOMEGALOVIRUS-HOST CELL INTERACTIONS	VR	1R01 AI12151-01	74,498
RASHKIND, WILLIAM J.	THERAPY OF CONGENITAL HEART DISEASE	SGYB	5R01 HL12307-05	65,677
SCHWARTZ, ELIAS	HEME AND GLOBIN SYNTHESIS IN INFANTS AND CHILDREN	HEM	3R01 AM16691-03S1	1,016
SCHWARTZ, ELIAS	HEME AND GLOBIN SYNTHESIS IN INFANTS AND CHILDREN	HEM	5R01 AM16691-04	76,948
SEGAL, STANTON	GENETIC METABOLIC DISEASES OF INFANCY AND CHILDHOOD	MET	2R01 AM10894-09	232,688
SEGAL, STANTON	METABOLIC BASIS OF CYSTINE STORAGE DISEASE	MET	5R01 AM13900-06	47,866
SEGAL, STANTON	CELLULAR MECHANISMS IN MENTAL RETARDATION	HDMR	1P01 HD08536-01	531,566
ORGANIZATION TOTAL	25 2,887,245			
<b>DREXEL UNIVERSITY</b>	<b>ZIP CODE 19104</b>			
DAVIS, FRANKLIN A.	SULFUR-NITROGEN COMPOUNDS IN CANCER CHEMOTHERAPY	MCHB	1R01 CA14341-01A2	48,829
DI MEO, FRANK N.	CARDIAC DEFIBRILLATION BY MULTIPLE STAGGERED SHOCKS	CVA	2R01 HL14627-03	42,402
GRIFFITH, BELVER C.	INFORMATION AND KNOWLEDGE IN BIOMEDICAL RESEARCH	SSS	5R01 LM00911-04	78,803
NATH, AMAR	MOSSBAUER STUDIES OF VITAMIN B12 AND ITS COENZYME	BBCB	5R01 AM16447-02	55,317
NES, WILLIAM R.	INFLUENCE OF STRUCTURE ON ISOPENTENOID METABOLISM	PC	5R01 AM12172-08	95,067
NES, WILLIAM R.	THE ROLE OF STEROLS IN MEMBRANES	PC	5R01 GM20526-02	73,813
ROSEN, GERALD H.	THEORETIC STUDY OF BACTERIAL MIGRATION IN CHEMOTAXIS	COM	5R01 AI11392-02	29,127
ORGANIZATION TOTAL	7 423,358			
<b>HANNEWMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA</b>	<b>ZIP CODE 19102</b>			
ANGELAKOS, EVANGELOS T.	STRESS HYPERTENSION	CVB	5R01 HL14653-03	74,809
BASNEY, REZA I.	BIOCHEMISTRY OF NORMAL AND DISEASED HEART VALVES	PTHA	2R01 HL14130-04A1	81,108
BRADY, LUTHER W.	COOPERATIVE STUDY OF RADIATION THERAPY	CCI	5R10 CA12252-04	73,145
BRADY, LUTHER W.	COOPERATIVE STUDY OF NEW GYNECOLOGIC CANCER PATIENTS	CCI	5R10 CA12478-05	26,421
BRODSKY, ISADORE	EASTERN COOPERATIVE ONCOLOGY GROUP	CCI	2R10 CA13611-03	86,191



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
BRODSKY, ISADORE	PROGRAM PROJECT-MEDICAL ONCOLOGY	CAP	1P01 CA17053-01	204,931
CROWELL, RICHARD L.	VIRAL INTERFERENCE IN CARRIER CULTURES	VR	2R01 AI03771-15	73,346
DI PALMA, JOSEPH R.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05413-14	115,681
DIGREGORIO, GUERINO J.	DETERMINATION OF LEAD LEVELS IN SALIVA	TOX	1R01 ES00856-01	4,800
FLEISCHMAUER, RAUL	ALTERATIONS OF BLOOD VESSEL AND COLLAGEN IN SCLERODERMA	GMA	1R01 AM17918-01	77,345
HOLSCLAU, DOUGLAS S.	LUNG MUCOCILIARY CLEARANCE AND MUCOUS RHEOLOGY	SSS	5R01 AM17771-02	10,192
KAHN, SIGMUND B.	CANCER CENTER PROGRAM IN CLINICAL EDUCATION	CEC	1R25 CA17963-01	123,093
KALIA, MADHU	PULMONARY REFLEXES-CENTRAL PATHWAYS	CVA	1R01 HL17800-01	22,800
PRICE, HENRY L.	SYMPATHOMIMETIC AND CIRCULATORY ACTIONS OF ANESTHETICS	PHRA	5R01 HL15392-03	29,444
PRICE, HENRY L.	EFFECT OF ANESTHETICS ON MYOCARDIAL FUNCTION	PHRA	1R01 HL15799-01A2	70,390
ROBINSON, STEPHEN E.	DEVELOPMENTAL FETAL ECG	HED	1R01 HD09461-01	65,623
ROSE, LESLIE I.	METABOLIC STUDIES OF UTERINE NEOPLASMS	PTHB	7R01 CA18737-01	49,351
SNIPES, CHARLES A.	DEVELOPMENT OF REPRODUCTIVE FUNCTION	REB	5R01 HD05730-05	28,641
WEIDANZ, WILLIAM P.	MECHANISMS OF NONSTERILIZING IMMUNITY IN MALARIA	TMP	1R01 AI12710-01	39,187
ORGANIZATION TOTAL	19	1,256,498		
<b>INSTITUTE FOR CANCER RESEARCH ZIP CODE 19111</b>				
BAHN, ANITA	CONFERENCE OF COMPREHENSIVE CANCER CENTER DIRECTORS	NSS	1R13 CA18978-01	29,200
BAYER, MANFRED E.	MULTIFUNCTIONAL ZONES ON THE BACTERIAL SURFACE	MBG	2R01 AI10414-02	53,250
BERMAN, HELEN	STRUCTURES OF NUCLEIC ACID AND PROTEIN COMPONENTS	BBCA	1R01 GM21589-01	22,100
BOSMA, MELVIN J.	INHERITANCE AND EXPRESSION OF IMMUNOGLOBULIN GENES	GEN	2R01 CA04946-15	43,166
COHEN, LEONARD H.	HISTONE SPECIFICITY	BIO	2R01 CA12544-04	49,288
CREECH, HUGH J.	SUPPORT FOR JOURNAL OF CANCER RESEARCH	NSS	5R01 CA09247-23	174,905
FREED, JEROME J.	GENETIC STUDIES ON HAPLOID CELLS IN CULTURE	GEN	2R01 CA05959-14	76,116
FREEMAN-NARROD, MARION	TOXICITY OF METHOTREXATE AND ITS POSSIBLE PREVENTION	ET	1R01 CA16755-01	24,390
GLUSKER, JENNY P.	APPLICATION OF CRYSTALLOGRAPHIC TECHNIQUES	BBCA	5R01 CA10925-26	132,533
HAMPTON, ALEXANDER	CHEMISTRY AND ENZYMOLOGY OF ANTICANCER PURINE ANALOGS	ET	5R01 CA11196-07	107,367
HUNGERFORD, DAVID A.	CHROMOSOME STRUCTURE AND FUNCTION IN MAN	GEN	5R01 GM17551-14	58,698
KLINMAN, JUDITH P.	ENZYME CATALYZED HYDROGEN ABSTRACTION REACTIONS	BBCA	5R01 GM20627-02	28,072
LOEB, LAWRENCE A.	THE CONTROL OF REPLICATION IN HUMAN LYMPHOCYTES	MBY	5R01 CA11524-05	69,839
LOEB, LAWRENCE A.	DNA POLYMERASES IN NORMAL AND LEUKEMIC LYMPHOCYTES	BIO	2R01 CA12818-04A1	72,600
MARCUS, ABRAHAM	INITIATION AND PEPTIDE SYNTHESIS IN VITRO	PC	5R01 GM15122-08	65,368
MARCUS, ABRAHAM	MOLECULAR REGULATION OF CELL GROWTH IN CULTURE	MBY	5R01 GM20664-02	56,539
MASON, WILLIAM S.	REPLICATION OF ROUS SARCOMA VIRUS	VR	1R01 CA16641-01	50,716
MELOCHE, H. PAUL	MICROENVIRONMENTAL GEOMETRY OF C-C LYASE ACTIVE SITES	PC	3R01 GM18326-04S1	1,212
MILDVAN, ALBERT S.	NMR STUDIES OF ENZYME-METAL-SUBSTRATE INTERACTIONS	BBCB	5R01 AM13351-08	98,526
MILLMAN, IRVING	EFFECTS OF BACTERIA AND SUBFRACTIONS ON NEOPLASIA	BM	1R01 CA17704-01	52,984
MINTZ, BEATRICE	GENE CONTROL OF MAMMALIAN DEVELOPMENT AND DISEASE	CBY	5R01 HD01646-16	161,542
NEMER, MARTIN J.	REGULATION OF RNA AND PROTEIN SYNTHESIS IN EMBRYOGENESIS	CBY	3R01 HD04367-13S1	166
NEMER, MARTIN J.	INFORMATIONAL MACROMOLECULES IN CELLULAR DIFFERENTIATION	CBY	2R01 HD04367-14	55,860
PREHN, RICHMOND T.	MECHANISMS OF CARCINOGENESIS	IMB	5R01 CA08856-09	326,968
PREHN, RICHMOND T.	HUMAN IMMUNE RESPONSE TO MALIGNANCY DURING IMMUNOTHERAPY	PTHB	5R01 CA13456-03	200,815
ROSE, IRWIN A.	CARBOHYDRATE METABOLISM IN RED BLOOD AND TUMOR CELLS	PC	5R01 AM17320-12	49,862
ROSE, IRWIN A.	ENZYME MECHANISMS OF C-H BOND ACTIVATION	PC	5R01 GM20940-12	65,949
ROSE, ZELDA B.	ENZYMES OF 2,3-DIPHOSPHOGLYCERATE METABOLISM	PC	5R01 GM19875-03	42,194
ROSS, MORRIS H.	REGULATION OF TUMOR SUSCEPTIBILITY	NTN	1R01 CA16442-01A1	5,107
SOROF, SAM	MACROMOLECULES IN LIVER CARCINOGENESIS	PTHB	5R01 CA05945-12	82,490
STRAWITZ, JOSEPH G.	COOPERATIVE STUDY OF CANCER	CCI	5R10 CA14963-02	43,320
SUMMERS, JESSE W.	CHARACTERIZATION OF VIRUS GENOMES IN TRANSFORMED CELLS	VR	2R01 CA13506-04	63,774
TALBOT, TIMOTHY R., JR.	SUPPORT FOR CLINICAL CANCER RESEARCH CENTER	CAP	2P01 CA06551-12	1,062,491
TALBOT, TIMOTHY R., JR.	BIOLOGICAL AND BIOCHEMICAL PROGRAM IN CANCER RESEARCH	CAK	5P01 CA06927-13	2,744,892
TALBOT, TIMOTHY R., JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05539-13	250,558
TARTOF, KENNETH D.	STRUCTURE AND FUNCTION OF GENES	GEN	2R01 GM19194-04	74,771
WEIGERT, MARTIN G.	GENETIC CONTROL OF ANTIBODY STRUCTURE	GEN	5R01 GM20964-02	86,837
YUSHOK, WASLEY D.	REGULATION OF METABOLISM OF ASCITES TUMOR CELLS	ET	3R01 CA12650-03S1	3,419
ZWEIDLER, ALFRED	HISTONES IN CELL DIFFERENTIATION AND CARCINOGENESIS	PC	5R01 CA15135-02	56,498
ORGANIZATION TOTAL	39	6,644,382		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
<b>LANCKENAU HOSPITAL</b>	<b>ZIP CODE 19151</b>			
CEVALLOS, WILLIAM H.	UNSATURATED FATS—MODE OF HYPOCHOLESTEROLEMIC ACTION	NTN	1R01 HL17564-01	52,032
GABUZDA, THOMAS G.	REGULATION IN DEVELOPING ERYTHROID CELLS	HEM	5R01 HL16654-03	55,098
REICHARD, GEORGE A, JR.	METABOLIC SUBSTRATE UTILIZATION IN MAN	MET	5R01 AM13527-05	92,582
REICHARD, GEORGE A, JR.	GLUCOSE METABOLISM IN TRAUMA & DURING HYPERALIMENTATION	SGYA	1R01 GM21549-01	60,191
ORGANIZATION TOTAL	4	259,903		
<b>MEDICAL COLLEGE OF PENNSYLVANIA</b>	<b>ZIP CODE 19129</b>			
BANSAL, SUBHASH C.	IMMUNOLOGICAL NONREACTIVITY—SERUM FACTORS	IMB	5R01 AI12074-02	52,272
BANSAL, SUBHASH C.	IMMUNE MANIPULATION IN RAT COLON TUMORS	SRC	1R26 CA16909-01	64,405
DRATMAN, MARY B.	ADRENERGIC PHARMACOLOGY AND THYROXIN METABOLISM	END	5R01 AM16420-02	25,947
ELFVIN, MYRA J.	ANALYSIS OF PARAMYOSIN-CONTAINING INVERTEBRATE MUSCLE	SSS	1R01 GM21956-01	46,609
ESKIN, BERNARD A.	MAMMARY GLAND RESPONSES TO CHEMICAL BLOCKADE OF IODINE	ET	5R01 CA13186-03	70,322
ESKIN, BERNARD A.	RADIOIODINE UPTAKE & IMAGING IN THE HUMAN BREAST	END	5R01 CA14705-02	31,555
GODLESKI, JOHN J.	LUNG MACROPHAGE ANTIGENS—THEIR DEVELOPMENT AND USE	YIP	1R23 HL18339-01	40,506
GOLDBERGER, MICHAEL E.	AXONAL SPROUTING AND FUNCTIONAL RECOVERY IN THE CNS	NEUB	5R01 NS11919-02	60,437
JOHNSON, EUGENE M, JR.	A NEW APPROACH TO DRUG INDUCED SYMPATHECTOMY	CYB	1R01 HL16893-01	23,624
KAYE, DONALD	STUDY OF BACTERIAL INTERFERENCE IN GONORRHEA	BM	5R01 AI11199-03	46,882
LEIGHTON, JOSEPH	BLADDER CANCER—MENISCUS GRADIENT AND MATRIX CULTURE	SRC	2R26 CA14137-04	76,343
LEIGHTON, JOSEPH	METAPLASIA AND NEOPLASIA IN THE HETEROTOPIC RAT BLADDER	SRC	1R26 CA17772-01	55,790
LEVISON, MATTHEW E.	ROLE OF SHORT CHAIN FATTY ACIDS IN HEPATIC COMA	BM	5R01 AM17549-02	18,596
LOEB, MARILYN R.	VIRUS-MEDIATED CHANGES IN THE CELL SURFACE	VR	1R01 AI12756-01	56,700
MAUSNER, JUDITH S.	A CLINICAL AND ULTRASONIC STUDY OF VENOUS DISEASE	EDC	5R01 HL11774-07	76,124
MURRAY, MARION	GENERATION AND DEGENERATION OF AXONS	NEUA	5R01 NS11644-02	42,951
PUBOLS, LILLIAN M.	NEURAL CORRELATES OF SOMATIC SENSIBILITY	CMS	7R01 NS12254-01	56,010
ROBERTS, JAY	ROLE OF BIOLOGICAL MEMBRANES IN AGING PROCESSES	HDAG	5P01 HD06267-04	163,049
ROBERTS, JAY	PHARMACOLOGY OF GENESIS OF CARDIAC RHYTHMICITY	SSS	5R01 HL13666-04	74,300
ROBERTS, JAY	PHARMACOLOGIC STUDIES OF CORONARY OCCLUSION ARRHYTHMIAS	PHRA	5R01 HL16283-02	76,158
ROSS, LEONARD L.	CYTOLOGICAL LOCALIZATION OF SEROTONIN	NEUB	2R01 NS11364-03	58,016
RUBIN, WALTER	A FINE STRUCTURAL STUDY OF HUMAN GASTRIC EPITHELIA	GMA	5R01 AM14348-06	64,504
SCHICK, PAUL K.	ISOLATION AND IDENTIFICATION OF PLATELET MEMBRANES	HEM	1R01 HL18249-01	41,503
SLATER, ROBERT J.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05418-14	106,449
SMITH, JANET D.	CMV REPLICATION IN CHIMERIC AND HYBRID CELLS	VR	1R01 AI12832-01	31,919
WEISS, BENJAMIN	AGENTS INHIBITING PHOSPHODIESTERASES OF CANCER CELLS	MBY	5R01 CA15883-02	56,855
WOODSIDE, NINA B.	A COMPREHENSIVE BIBLIOGRAPHY ON WOMEN IN MEDICINE	BCM	1R01 LM02332-01	56,003
ORGANIZATION TOTAL	27	1,573,829		
<b>MERCY CATHOLIC MEDICAL CENTER</b>	<b>ZIP CODE 19023</b>			
DJERASSI, ISAAC	COOPERATIVE STUDY OF LEUKEMIA PLATELETS	CCI	2R10 CA11630-05	316,262
MEYER, EDWARD C.	THE ABSORPTION ROUTES OF PROTEIN FROM ALVEOLI	CVA	5R01 HL13596-05	68,715
MEYER, EDWARD C.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05708-04	16,330
ORGANIZATION TOTAL	3	401,307		
<b>PENNSYLVANIA COLLEGE OF OPTOMETRY</b>	<b>ZIP CODE 19141</b>			
HIGGINS, KENT E.	SUPRATHRESHOLD SPATIAL INTERACTION IN PHOTOPIC VISION	VISB	1R01 EY00986-01A2	14,951
HIGGINS, KENT E.	PERIPHERAL MECHANISMS IN FUNCTIONAL AMBLYOPIA	VISA	1R23 EY01473-01	9,000
ORGANIZATION TOTAL	2	23,951		
<b>PENNSYLVANIA HOSPITAL</b>	<b>ZIP CODE 19107</b>			
BOGGS, THOMAS R, JR.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05590-11	54,519
JOHNSON, LOIS H.	BILIRUBIN TOXICITY—METABOLIC EFFECTS OF PHOTOTHERAPY	HED	5R01 HD06468-02	32,503
LENER, HARVEY J.	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA13613-03	49,994
LING, GILBERT N.	NMR STUDY OF WATER IN CANCER AND IN NORMAL TISSUES	SSS	3R01 CA16301-01S1	2,400
SIMEONE, FREDERICK A.	REGIONAL CEREBRAL METABOLISM AND BLOOD FLOW	NEUB	5R01 NS11186-02	48,543
WALLACH, EDWARD E.	OVARIAN NERVE AND MUSCLE IN THE MECHANISMS OF OVULATION	REB	5R01 HD05948-02	41,454
ZACKS, SUMNER I.	CONTROL OF PROTEIN SYNTHESIS IN MED-MYOPATHY	MBY	2R01 NS09569-03A1	36,282
ORGANIZATION TOTAL	7	265,695		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
<b>PHILADELPHIA COLLEGE OF PHARMACY AND SCIENCE      ZIP CODE 19104</b>				
ROSSI, G VICTOR.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05759-01	16,003
ORGANIZATION TOTAL	1      16,003			
<b>PHILADELPHIA GENERAL HOSPITAL      ZIP CODE 19104</b>				
BOSEE, ROLAND A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05508-13	136,501
BRIGHTMAN, VERNON J.....	ATYPICAL FACIAL PAIN AND DISTURBED ORAL SENSATION.....	DEN	5R01 DE03764-02	89,627
HOWARD, BARBARA V.....	THE METABOLISM OF LIPIDS IN CULTURED CELLS.....	MET	5R01 HL16058-02	48,865
KEFALIDES, NICHOLAS A.....	CHEMISTRY AND METABOLISM OF CONNECTIVE TISSUES.....	SSS	3P01 AM14526-05S1	3,240
KEFALIDES, NICHOLAS A.....	CHEMISTRY AND METABOLISM OF CONNECTIVE TISSUES.....	SSS	5P01 AM14526-06	312,543
MINOR, RONALD R.....	FACTORS IN LUNG DEVELOPMENT.....	HED	1R01 HL17461-01	71,807
REIVICH, MARTIN.....	STROKE ACUTE CARE RESEARCH UNIT.....	NSPA	5P17 NS11547-02	95,455
ROSENBLUM, JOEL.....	BIOCHEMICAL STEPS AND CONTROL OF COLLAGEN SYNTHESIS.....	BIO	2R01 AM14439-06	57,242
SELZER, MICHAEL E.....	EPILEPSY RELEVANT DRUGS AND CENTRAL SYNAPSES.....	PHRA	1R01 NS12390-01	29,218
SUMNER, AUSTIN J.....	EXPERIMENTAL NEUROPATHIES—CORRELATIVE STUDIES.....	NEUA	7R01 NS12130-01	34,775
ORGANIZATION TOTAL	10      879,273			
<b>PHILADELPHIA GERIATRIC CENTER      ZIP CODE 19141</b>				
ALTSCHULER, HENRY.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05611-08	25,717
ORGANIZATION TOTAL	1      25,717			
<b>PRESBYTERIAN-UNIVERSITY OF PENNSYLVANIA MEDICAL CENTER      ZIP CODE 19104</b>				
BLOUGH, HERBERT A.....	TUMOR VIRUS LIPIDS: STRUCTURE AND BIOSYNTHESIS.....	PC	5R01 CA15370-02	92,301
BLOUGH, HERBERT A.....	SURFACE CHEMISTRY OF THE CORNEA.....	VISA	5R01 EY01067-03	52,758
BURGESS, BENJAMIN F, JR.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05610-09	71,758
GARDNER, FRANK H.....	COOPERATIVE STUDY OF PLATELET TRANSFUSIONS IN LEUKEMIA.....	CCI	5R10 CA12397-04	83,774
GARDNER, FRANK H.....	ANDROGENS & 5BETA-H METABOLITES IN CANCER CHEMOTHERAPY.....	ET	1R01 CA16272-01	56,480
LATIES, ALAN M.....	HISTOCHEMICAL STUDY OF AUTONOMIC INNERVATION OF THE EYE.....	VIS	5R01 EY01194-03	59,651
MURPHY, SCOTT.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	3R10 CA12639-03S1	42,977
MURPHY, SCOTT.....	PLATELET PRESERVATION AND PHYSIOLOGY.....	HEM	5R01 HL11047-09	115,886
ROCKEY, JOHN H.....	PRIMARY STRUCTURAL STUDIES OF VISUAL PIGMENTS.....	BBCA	2R01 EY01193-03	77,345
ORGANIZATION TOTAL	9      652,930			
<b>ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN      ZIP CODE 19133</b>				
AUERBACH, VICTOR H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05624-09	51,252
VAUGHAN, VICTOR C, III.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00075-12	402,230
ORGANIZATION TOTAL	2      453,482			
<b>TEMPLE UNIVERSITY      ZIP CODE 19122</b>				
ADELMAN, RICHARD C.....	BIOCHEMICAL REGULATION OF AGING PROCESSES.....	HDAG	5P01 HD05874-05	184,151
AIKEN, LEONA S.....	VISUAL-AUDITORY EQUIVALENCE IN PATTERN PERCEPTION.....	EXP	5R01 HD07163-03	31,963
BASERGA, RENATO L.....	STUDY OF FACTORS CONTROLLING CELLULAR PROLIFERATION.....	CBY	5R01 CA08373-10	54,963
BASERGA, RENATO L.....	STUDY OF FACTORS CONTROLLING CELLULAR PROLIFERATION.....	CBY	2R01 CA08373-11	63,440
BASERGA, RENATO L.....	A CORRELATED STUDY ON THE BIOLOGY OF NEOPLASIA.....	CAP	5P01 CA12923-03	286,837
BASERGA, RENATO L.....	ISOPROTERENOL-STIMULATED SALIVARY GLAND.....	DEN	5R01 DE02678-08	48,722
BODEN, GUENTHER.....	INFLUENCE OF ENDOGENOUS SECRETIN ON INSULIN REGULATION.....	MET	5R01 AM16348-02	50,679
BORUN, THADDEUS W.....	REGULATION OF HISTONE BIOSYNTHESIS IN HETEROPLD CELLS.....	MRY	5R01 CA11463-06	87,037
CAMPO, ROBERT D.....	STUDIES ON ENDOCHONDRAL GROWTH.....	SGYB	5R01 AM16270-02	46,372
CHANG, FONG N.....	BACTERIAL RIBOSOME BIOSYNTHESIS AND RNA MINOR BASES.....	BIO	2R01 GM19302-04	34,185
CHRISTENSEN, ALBERT K.....	CELL BIOLOGY OF STEROID-SECRETING CELLS.....	REB	2R01 HD05897-05	63,993
CLARK, WALLACE H, JR.....	BIOLOGY OF HUMAN CUTANEOUS MALIGNANT MELANOMA.....	GMA	5R01 CA11511-06	63,473
CLARK, WALLACE H, JR.....	COOPERATIVE CLINICAL STUDY OF MALIGNANT MELANOMA.....	CCI	2R10 CA13669-03	66,170
CONGER, ALAN D.....	RADIOBIOLOGY RESEARCH PROGRAM.....	RAD	3R01 CA08231-10S1	5,636
CONGER, ALAN D.....	RADIOBIOLOGY RESEARCH PROGRAM.....	RAD	2R01 CA08231-11	51,087
FARBER, EMMANUEL.....	CHEMICAL PATHOLOGY OF LESIONS PRODUCED BY ETHIONINE.....	PTHB	5R01 AM14882-05	72,251
FARBER, EMMANUEL.....	PATHOGENESIS OF LIVER CANCER.....	PTHB	5R01 CA12218-05	143,733
FARBER, EMMANUEL.....	CORE PROGRAM IN CARCINOGENESIS.....	CAK	2P01 CA12227-05	875,704
HANSON, RICHARD W.....	REGULATION OF GLUCONEOGENESIS IN MAMMALIAN LIVER.....	MET	5R01 AM16009-04	44,092
HANSON, RICHARD W.....	HORMONAL REGULATION OF ENZYME LEVELS IN MAMMALIAN TISSUE.....	BIO	1R01 AM18034-01	57,552



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
HANSON, THOMAS E.....	DEVELOPMENTAL TOPOLOGY OF VERTEBRATE VISUAL SYSTEMS.....	VISB	1R01 EY01469-01	34,732
HARRINGTON, GEORGE W.....	ELECTROANALYTICAL STUDIES OF N-NITROSAMINES.....	MCHB	1R01 CA18618-01	49,828
HARVEY, WILLIAM R.....	PHYSIOLOGY OF INSECT DIAPIAUSE AND DEVELOPMENT.....	TMP	5R01 AI09503-06	62,059
HIGGINS, MICHAEL L.....	MODEL FOR STUDY OF CELL DIVISION AND SURFACE GROWTH.....	MBC	2R01 AI10971-04	18,971
HILFER, S ROBERT.....	MUSCLE DIFFERENTIATION IN EMBRYONIC CHICK LIMB BUD.....	CBY	5R01 HD04669-05	70,801
HILLMAN, NINA W.....	THE EFFECT OF RNA AND DNA ON CEPHALIC TERATA.....	CBY	5R01 HD00827-12	81,626
HILLMAN, RALPH.....	GENETIC TRANSLATION AS A CELLULAR CONTROL MECHANISM.....	GEN	5R01 GM18080-05	55,340
HOSTETLER, JOHN A.....	FERTILITY PATTERNS IN AN AMERICAN ISOLATE SUBCULTURE.....	POP	1R01 HD08137-01A1	113,417
JOHNSON, GEORGE.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07115-08	37,727
KIM, SANGDUK.....	ENZYMATIC MODIFICATION OF CARBOXYL RESIDUES IN PROTEIN.....	PC	5R01 GM20594-03	54,529
KIRBY, EDWARD P.....	STRUCTURE AND FUNCTION OF THE ANTIHEMOPHILIC FACTOR.....	HEM	5R01 HL15474-03	12,059
KROW, GRANT R.....	SYNTHESIS OF THE ANTILEUKEMIC LIGNAN STEGANACIN.....	MCHA	5R01 CA15759-02	39,876
KUNDEL, HAROLD L.....	EARLY RADIOLOGIC DETECTION OF LUNG CANCER.....	RAD	1R01 CA16491-01	182,508
KUNDEL, HAROLD L.....	VISUAL SEARCH AND FILM READER ERROR IN RADIOLOGY.....	RAD	1R01 GM21474-01A1	111,927
LACKO, ANDRAS G.....	PURIFICATION AND CHARACTERIZATION OF HUMAN PLASMA LCAT.....	PC	5R01 HL14924-02	39,808
LARIMER, JAMES O.....	OPPONENT-COLOR CODES: CANCELLATION & MAGNITUDE CODES.....	VISB	5R01 EY01172-03	31,623
LINNA, T JUHANI.....	INFLUENCE OF THE IMMUNE SYSTEM ON VIRAL TUMORIGENESIS.....	VR	2R01 CA13347-04	66,631
LITWACK, GERALD.....	REACTION BETWEEN HORMONES AND TYROSINE OXIDASE SYSTEM.....	PC	2R01 AM08350-12	50,217
LITWACK, GERALD.....	METABOLISM OF CORTISOL IN LIVER.....	END	5R01 AM13531-06	55,666
LOTLIKAR, PRABHAKAR D.....	MECHANISM OF CHEMICAL CARCINOGENESIS.....	ET	2R01 CA10604-08	85,796
LYNCH, PETER R.....	RADIOLOGY-PHYSIOLOGY CARDIOVASCULAR RESEARCH.....	HEP	5P01 HL08886-12	200,272
MAIER, WILLIS P.....	PRIMARY BREAST CANCER THERAPY GROUP.....	CCI	2R10 CA12034-04	18,808
MARTIN, JOHN S.....	ORAL MUCOSAL STIMULATION AND AIR RESISTANCE.....	DEN	1R23 DE04142-01	12,451
MC ELLIGOTT, JAMES G.....	CEREBELLAR NEURONAL ACTIVITY AND MOTOR BEHAVIOR.....	NEUB	5R01 NS10488-03	35,351
MILLER, RICHARD L.....	STUDIES OF PRE-FERTILIZATION PHENOMENA IN ANIMALS.....	CBY	5R01 HD04543-05	28,217
MOTE, MICHAEL I.....	CELLULAR BASIS OF VISUAL INTEGRATION.....	VISB	2R01 EY00784-04	49,881
NIEWIAROWSKI, STEFAN.....	INTERACTION OF CELLS WITH POLYMERIZING FIBRIN.....	HEM	5R01 HL15226-03	28,480
NOVAL, JOSEPH J.....	MECHANISM OF ANTITUMOR EFFECT OF PORTACAVAL SHUNT.....	SGYB	3R01 CA15385-01S1	22,453
OWEN, OLIVER E.....	REGULATION OF KETOACID METABOLISM.....	MET	5R01 AM16102-02	40,909
PAIK, WOON K.....	AMPHIBIAN METAMORPHOSIS AND L-LYSINE METABOLISM.....	PC	5R01 AM09602-08	47,224
PAIK, WOON K.....	STUDIES ON PROTEIN METHYLATION IN NEOPLASTIC TISSUES.....	PC	5R01 CA12226-05	39,866
PATEL, MULCHAND S.....	REGULATION OF METABOLIC PROCESSES IN DEVELOPING BRAIN.....	MET	2R01 NS11088-03A1	39,476
PIERINGER, RONALD A.....	BACTERIAL LIPID METABOLISM.....	MBC	2R01 AI05730-11	39,458
PLAUT, GERHARD W E.....	REGULATION OF PATHWAYS OF INTERMEDIARY METABOLISM.....	BIO	5R01 AM15404-05	81,168
RAJA, KODUNGALLORE G.....	IMMUNOLOGICAL STUDY OF LCAT IN MAMMALS.....	MET	1R01 HL17431-01A1	50,679
REICHLÉ, FREDERICK A.....	PRE- AND POST-SHUNT HUMAN HEPATIC HEMODYNAMICS.....	SGYB	1R01 AM18194-01	67,527
REICHLÉ, FREDERICK A.....	INFLUENCE OF PORTACAVAL SHUNT ON TUMOR GROWTH.....	SGYB	5R01 CA14040-02	52,780
ROXBY, ROBERT.....	MEASUREMENT OF LIGAND BINDING TO ASSOCIATING ENZYMES.....	BBCA	5R01 AM17262-02	5,400
RUSY, BEN F.....	CARDIAC ENERGY UTILIZATION DURING ANESTHESIA.....	CVA	1R01 HL17919-01	25,457
SARMA, D S.....	STUDY OF LIVER DNA IN CHEMICAL CARCINOGENESIS.....	ET	5R01 CA14689-02	25,281
SCHRAMM, VERN L.....	REGULATION OF ADENINE NUCLEOTIDE POOLS.....	BIO	1R01 GM21083-01A1	49,028
SCHWARTZ, ARTHUR G.....	ACTIONS OF HYDROCARBON CARCINOGENS ON CULTURED CELLS.....	ET	5R01 CA14661-03	31,652
SCRUTTON, MICHAEL C.....	ROLE OF PYRUVATE CARBOXYLASE IN METABOLIC REGULATION.....	PC	5R01 AM15468-03	33,499
SEVY, ROGER W.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00349-09	525,608
SEVY, ROGER W.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	AR	5P06 RR00816-02	13,104
SEVY, ROGER W.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05417-14	255,345
SHERRY, SOL.....	SPECIALIZED CENTER FOR THROMBOSIS RESEARCH.....	SRC	5P17 HL14217-05	1,109,794
SHOCKMAN, GERALD D.....	BIOSYNTHESIS OF BACTERIAL CELL WALLS AND MEMBRANES.....	MBC	2R01 AI05044-12A1	68,874
SHOCKMAN, GERALD D.....	INHIBITION OF HUMAN CARIOGENIC STREPTOCOCCI.....	BM	2R01 DE03487-04	51,236
SMALLEY, RICHARD V.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	3R10 CA07961-10S1	14,924
SMALLEY, RICHARD V.....	COOPERATIVE STUDY OF CANCER.....	CCI	2R10 CA07961-11	86,302
SMITH, COLLEEN M.....	REGULATION OF TOTAL COA LEVELS IN HEART AND LIVER.....	BIO	1R01 AM18045-01	32,855
SODICOFF, MARVIN.....	PAROTID GLAND SECRETION FOLLOWING X-IRRADIATION.....	DEN	5R01 DE03666-02	26,476
SPANN, JAMES F, JR.....	EXPERIMENTAL CONGESTIVE HEART FAILURE AND HYPERTROPHY.....	CVB	1R01 HL17631-01	72,001
SUHADOLNIK, ROBERT J.....	NUCLEOSIDE ANALOGS: BIOSYNTHESIS & ROLE IN THE CELL.....	PC	5R01 AI12066-02	66,980
SWERN, DANIEL.....	BIOLOGICALLY ACTIVE FATTY ACID DERIVATIVES.....	MCHA	5R01 CA07803-12	51,063
TRUEX, RAYMOND C.....	COMPARATIVE STUDY OF CARDIAC CONDUCTION SYSTEM.....	CVA	3R01 HL07047-13S1	2,135
TRUEX, RAYMOND C.....	COMPARATIVE STUDY OF CARDIAC CONDUCTION SYSTEM.....	CVA	2R01 HL07047-14A1	53,677
URBACH, FREDERICK.....	THE BIOLOGIC EFFECTS OF ENVIRONMENTAL RADIATION.....	SSS	2P01 ES00269-09	277,524
VAN SCOTT, EUGENE J.....	CELL CONTROL IN INTEGUMENTAL CANCER.....	CAP	2P01 CA11536-06	423,477

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
WEINHOUSE, SIDNEY.....	METABOLISM OF NORMAL AND NEOPLASTIC TISSUES.....	MET	5R01 CA10916-14	109,741
WIEDEMAN, MARY P.....	THE MICROCIRCULATION AFTER INTRA-ARTERIAL BARBITURATES.....	CVB	1R01 HL17767-01	42,016
WILLIAMS, JOHN R.....	PHOTOSENSITIZATION DUE TO DRUGS.....	MCHA	5R01 CA15348-02	30,359
WILLIAMS, JOHN R.....	THE SYNTHESIS OF POSTCOITAL ORAL CONTRACEPTIVES.....	MCHA	1R01 HD09146-01	30,326
YAMAMOTO, NOBUTO.....	GENETIC EVOLUTION OF BACTERIOPHAGE.....	VR	5R01 AI06429-10	65,459
ORGANIZATION TOTAL	85		8,021,774	
<b>THOMAS JEFFERSON UNIVERSITY ZIP CODE 19107</b>				
BOOSS, JOHN.....	HOST DEFENSE IN MURINE CYTOMEGALOVIRUS INFECTION.....	VR	1R01 AI12853-01	57,997
BRENT, ROBERT L.....	PROBLEMS IN EXPERIMENTAL EMBRYOLOGY.....	HED	2R01 HD00630-12	161,208
BRODOVSKY, HARVEY S.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	2R10 CA14215-03	101,180
BRUCKER, PAUL C.....	ASSURING PATIENT COMPLIANCE BY HEALTH CARE CONTRACTS.....	SRC	5R25 HL17230-02	70,643
CHEPENIK, KENNETH P.....	BIOCHEMICAL EVENTS PRECEDING BIRTH DEFECTS.....	HED	5R01 HD08433-02	58,859
COTTRELL, JOHN C.....	POTENTIAL CARCINOGENICITY OF CANNABIS.....	PTHB	5R01 CA15050-02	32,994
D'ANGELO, SAVINO A.....	HYPOTHALAMIC-HYPOPHYSIAL-THYROID INTERACTION.....	END	5R01 AM00432-25	51,206
ERSLEV, ALLAN J.....	FEEDBACK BETWEEN RED CELL PRODUCTION & OXYGEN TRANSPORT.....	HEM	2R01 HL04612-16	123,942
ERSLEV, ALLAN J.....	EXPANSION OF RESEARCH FACILITIES IN A HEMATOLOGIC CENTER.....	HEP	5P01 HL06374-15	84,008
HAURANI, FARID I.....	ACUTE LEUKEMIA GROUP B.....	CCI	3R10 CA05462-14S2	19,219
HEIMER, RALPH.....	STRUCTURE-FUNCTION RELATIONSHIPS OF IMMUNOGLOBULINS.....	ALY	5R01 AM14274-05	49,127
HERBISON, GERALD J.....	REINNERVATING MUSCLE IN ACTIVITY AND INACTIVITY.....	AFY	1R01 NS11656-01A1	57,675
JENSH, RONALD P.....	PRE- AND POSTNATAL EFFECTS OF MICROWAVE IRRADIATION.....	RAD	1R01 ES01121-01A1	110,443
KALF, GEORGE F.....	CYTOPLASMIC FACTORS AND MITOCHONDRIAL DNA SYNTHESIS.....	BIO	3R01 CA12714-03S1	11,986
KELLOW, WILLIAM F.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	AR	5P06 RR00815-02	27,630
KELLOW, WILLIAM F.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05414-14	170,080
KOSZALKA, THOMAS R.....	EMBRYOLOGIC ASPECTS OF CREATINE METABOLISM.....	HED	5R01 HD06360-03	58,024
KRAMER, SIMON.....	RESEARCH AND CLINICAL RADIATION THERAPY CENTER.....	CAP	3P02 CA11602-05S1	33,758
KRAMER, SIMON.....	RESEARCH AND CLINICAL RADIATION THERAPY CENTER.....	CAP	2P02 CA11602-06	661,113
KRAMER, SIMON.....	RADIATION THERAPY ONCOLOGY GROUP.....	CCI	3R10 CA12248-03S1	27,685
KRAMER, SIMON.....	COOPERATIVE STUDY OF RADIATION THERAPY.....	CCI	5R10 CA12248-04	315,926
KRAMER, SIMON.....	INITIATION AND DEVELOPMENT OF RADIOTHERAPY STUDIES.....	NSS	5R01 CA13212-04	52,765
KRAMER, SIMON.....	RADIATION THERAPY DEVELOPMENT MASTER PLAN.....	NSS	1R13 CA18537-01	25,795
KRAMER, SIMON.....	HIGH ENERGY RADIATION THERAPY SYMPOSIUM.....	NSS	1R13 CA18563-01	18,930
LEEPER, DENNIS B.....	RECOVERY FROM RADIATION-INDUCED CYCLE DELAY.....	RAD	5R01 CA16110-02	66,320
LEFER, ALLAN M.....	INOTROPIC ACTIONS OF CORTICOSTEROIDS.....	CVA	5R01 HL17688-02	43,006
LEFER, ALLAN M.....	MYOCARDIAL DEPRESSANT FACTOR IN CIRCULATORY SHOCK.....	CVA	7R01 HL17745-01	56,630
LIBERTI, PAUL A.....	PHYSICOCHEMICAL STUDIES OF CLQ AND ITS INTERACTION.....	BBCA	1R01 AI12365-01	73,918
MAURER, PAUL H.....	IMMUNOLOGICAL STUDIES WITH SYNTHETIC POLYPEPTIDES.....	ALY	5R01 AO17825-09	116,630
MOSKOWITZ, NORMAN.....	CONNECTIONS OF AUDITORY CORTEX.....	CMS	5R01 NS10806-02	47,458
OSTERHOLM, JEWELL L.....	ACUTE SPINAL CORD INJURY CENTER.....	NSPA	7R01 NS12287-01	100,535
PANOS, CHARLES.....	STUDY OF L-FORMS OF GROUP A, BETA HEMOLYTIC STREPTOCOCCI.....	BM	5R01 AI11161-04	57,310
PANOS, CHARLES.....	LIPID COMPONENTS OF CELL MEMBRANES OF MICROORGANISMS.....	MBC	5R01 AI11170-04	46,650
ROVETTO, MICHAEL J.....	MYOCARDIAL FUNCTION AND METABOLISM FOLLOWING ISCHEMIA.....	CVB	1R01 HL17895-01	61,015
SCHNEIDER, JOHN J.....	GENERAL STUDIES IN STEROID METABOLISM.....	END	5R01 AM01255-19	85,907
SHAPIRO, SANDOR S.....	CONTROL MECHANISMS IN HEMOSTASIS.....	SSS	5R01 HL09163-10	117,244
SIEGMAN, MARION J.....	CONTRACTION OF UTERINE AND INTESTINAL SMOOTH MUSCLE.....	PHY	5R01 HD06074-02	29,598
SILVER, MELVIN J.....	PLATELET PROSTAGLANDINS.....	HEM	2R01 HL14890-04	144,001
SMITH, DIANE E.....	POSTNATAL DEVELOPMENT OF THE SPINOCEREBELLAR SYSTEM.....	NEUB	2R01 NS09275-04A1	61,560
SNYDER, ROBERT.....	BENZENE TOXICITY AND METABOLISM.....	TOX	3R01 ES00322-10S1	31,255
SNYDER, ROBERT.....	SYMPOSIUM ON ACTIVE INTERMEDIATES IN TOXICITY.....	NSS	1R13 ES01167-01	13,200
STUDZINSKI, GEORGE P.....	ACTION OF AMINONUCLEOSIDE ON NORMAL AND CANCER CELLS.....	ET	2R01 CA12334-04	74,662
STUDZINSKI, GEORGE P.....	DEOXYRIBONUCLEASES OF TUMOR NUCLEI.....	PTHB	5R01 CA12351-05	59,936
WEISS, ARTHUR J.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12294-05	118,852
WILPIZESKI, CHESTER R.....	OTOTOXICITY OF LEAD AND MERCURY.....	CMS	2R01 ES00706-04	54,620
WILPIZESKI, CHESTER R.....	EVALUATION OF LASERS FOR OTOLOGIC MICROSURGERY.....	CMS	1R01 NS11688-01A1	78,526
YU, FU-LI.....	RIBOSOMAL RNA SYNTHESIS IN NORMAL AND CANCER CELLS.....	MBV	5R01 CA15905-02	68,676
ORGANIZATION TOTAL	47		3,989,702	
<b>UNIVERSITY OF PENNSYLVANIA ZIP CODE 19174</b>				
ADLER, NORMAN T.....	BIOPSYCHOLOGY OF REPRODUCTION.....	EXP	5R01 HD04522-06	54,141
AGUIRRE, GUSTAVO D.....	NEUROFIBRILLAR DEGENERATION IN CONE DYSFUNCTION.....	VIS	5R01 EY01244-03	69,090

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
ARMSTRONG, CLAY M.....	PERMEABILITY MECHANISMS IN EXCITABLE MEMBRANES.....	PHY	7R01 NS12547-01	122,033
ASBURY, ARTHUR K.....	STUDIES OF NEUROMUSCULAR DISEASES.....	NSPB	2P01 NS08075-07A1	473,235
BAGDASARIAN, ANDRANIK.....	KININ-FORMING PATHWAY IN NORMAL AND MALIGNANT TISSUES.....	SSS	1R01 CA16607-01	38,256
BARKER, CLYDE F.....	BIOLOGY OF TISSUE AND ORGAN TRANSPLANTATION.....	IMB	5R01 AI11051-02	46,432
BECKMAN, ALEXANDER L.....	CNS THERMOREGULATORY MECHANISMS AND BIOGENIC AMINES.....	PHRA	2R01 NS10597-03	33,328
BELLO, LEONARD J.....	TRANSCRIPTION AND TRANSLATION IN MAMMALIAN CELLS.....	GEN	3R01 GM13434-09S1	12,716
BIANCHI, C PAUL.....	ELECTROLYTES IN NERVE AND MUSCLE FUNCTION.....	PHY	2R01 NS03321-14	45,764
BLASIE, J KENT.....	STRUCTURAL-FUNCTIONAL STUDIES ON SARCOPLASMIC RETICULUM.....	BBCB	1R01 HL17485-01	21,315
BOETTIGER, DAVID E.....	GENETIC ANALYSIS OF RNA TUMOR VIRUSES.....	VR	1R01 CA16502-01	65,077
BORA, F WILLIAM, JR.....	INHIBITION OF SCARS IN TENDON AND NERVE INJURY.....	SGYB	5R01 AM16186-03	159,225
BOTELHO, STELLA Y.....	FACTORS INFLUENCING SECRETION BY THE LACRIMAL GLAND.....	VISA	5R01 EY00119-05	48,477
BRACKETT, BENJAMIN G.....	RABBIT SPERM CAPACITATION AND FERTILIZATION.....	REB	1R01 HD09406-01	72,250
BREEDIS, CHARLES.....	DIFFERENTIATION DURING PROGRESSION TO MALIGNANCY.....	PTHB	5R01 CA12686-03	38,248
BRENNAN, JAMES T.....	FINAL DEVELOPMENT OF A 14 MEV NEUTRON THERAPY SYSTEM.....	RAD	1R01 CA17698-01	907,576
BRIGHT, HAROLD J.....	MECHANISM OF ENZYME ACTION.....	PC	5R01 GM11040-12	74,110
BRIGHTON, CARL T.....	STIMULATION OF EXTREMITY GROWTH BY ELECTRICAL FIELDS.....	SGYB	5R01 NM03812-06	40,755
BRIGHTON, CARL T.....	ARTICULAR CARTILAGE PRESERVATION AND TRANSPLANTATION.....	AFY	5R01 AM15091-05	67,184
BRIGHTON, CARL T.....	ACCELERATION OF FRACTURE HEALING BY ELECTRICAL FIELDS.....	AFY	1R01 AM18033-01	112,371
BRINSTER, RALPH L.....	REGULATION OF CANCER CELL DEVELOPMENT.....	CBY	5R01 CA14676-02	43,323
BRINSTER, RALPH L.....	PROTEIN METABOLISM IN THE PREIMPLANTED MOUSE EMBRYO.....	CBY	5R01 HD08452-02	61,071
BRINSTER, RALPH L.....	CELL DIFFERENTIATION IN THE MOUSE EMBRYO.....	CBY	1R01 HD08539-01	44,275
BRODY, JEROME I.....	ACQUIRED HEMOLYTIC ANEMIA OF LYMPHOCYTIC LEUKEMIA.....	HEM	5R01 CA07000-11	26,541
BROOKS, FRANK P.....	VAGAL CONTROL OF GASTRIC SECRETION.....	SGYB	5R01 AM14563-05	68,402
BUCHANAN, JAMES W.....	PATENT DUCTUS ARTERIOSUS AND PULMONARY HYPERTENSION.....	CVA	1R01 HL17581-01A1	57,411
BURNSIDE, MARY B.....	MICROTUBULE AND MICROFILAMENT STRUCTURE AND FUNCTION.....	CBY	5R01 GM20109-02	35,615
BUYUKMIHCI, NEDIM C.....	ROD DISC TURNOVER IN THE RETINA.....	VISB	5R23 EY01346-02	10,838
CAGAN, ROBERT H.....	MECHANISMS OF TASTE FUNCTION.....	CMS	2R01 NS08775-06A1	44,523
CAPUZZI, DAVID M.....	LIPID AND LIPOPROTEIN SYNTHESIS IN LIVER CELLS.....	MET	1R01 HL16520-02	26,183
CASSILETH, PETER A.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA18106-01	144,390
CAVA, MICHAEL P.....	BENZYLISOQUINOLINE ALKALOID STUDIES.....	MCHB	5R01 CA11445-07	69,721
CHANCE, BRITTON.....	THE REGULATION OF CELLULAR ENERGY METABOLISM.....	GMP	5P01 GM12202-12	608,989
CHANCE, BRITTON.....	OXYGEN DELIVERY TO TISSUE.....	BBCB	1R01 HL17826-01	105,722
CHARALAMPOUS, FRIXOS C.....	PLASMA MEMBRANES OF NORMAL AND TUMOR CELLS.....	PHY	5R01 CA02228-21	57,904
CIVAN, MORTIMER M.....	TRANSPORT AND THE INTRACELLULAR FLUIDS.....	PHY	5R01 AM16586-02	61,693
COBURN, RONALD F.....	CARBON MONOXIDE PRODUCTION AND BODY CO STORES.....	PHY	3R01 HL10331-09S1	1,719
COBURN, RONALD F.....	CARBON MONOXIDE PRODUCTION AND BODY CO STORES.....	PHY	5R01 HL10331-10	39,028
COHEN, D WALTER.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05337-14	137,891
COHEN, SIDNEY.....	PHYSIOLOGIC CHARACTERISTICS OF THE PYLORIC SPHINCTER.....	GMA	5R01 AM16280-03	45,132
COHN, MILDRED.....	NMR STUDIES OF MACROMOLECULES AND THEIR INTERACTIONS.....	BBCB	2R01 GM12446-11	108,889
COLMAN, ROBERT W.....	MOLECULAR BASIS OF ACTIVATION OF COAGULATION PROTEINS.....	HEM	5R01 HL16583-02	69,253
COLMAN, ROBERT W.....	BIOCHEMISTRY AND PATHOPHYSIOLOGY OF PLASMA KALLIKREIN.....	HEM	5R01 HL16642-02	92,812
COOPER, DAVID Y.....	AEROBIC HYDROXYLASES IN STEROID AND DRUG METABOLISM.....	END	5R01 AM04484-15	83,064
COOPER, DAVID Y.....	HEPATIC P-450 SYSTEMS INDUCED BY ARYL CARCINOGENS.....	BIO	1R01 CA17618-01	34,230
COOPER, RICHARD A.....	DISORDERS OF THE RED CELL MEMBRANE IN DISEASES.....	HEM	5R01 AM15441-04	63,067
COOPER, RICHARD A.....	MONOCYTE DETECTION OF THE HUMAN CANCER CELL SURFACE.....	HEM	5R01 CA15236-02	88,074
COOPER, RICHARD A.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	CBI	2R10 CA15488-02	37,141
COOPERMAN, BARRY S.....	MECHANISM OF PYROPHOSPHATASE; ADENYLATE AFFINITY LABELS.....	CCO	5R01 AM13212-07	34,005
COX, ROBERT H.....	ARTERIAL WALL STRUCTURE-FUNCTION RELATIONS.....	PHY	1R01 HL17840-01	49,380
DAVIDOVITCH, ZEEV.....	BIOCHEMICAL ASPECTS OF ERUPTION AND MOVEMENT OF TEETH.....	DEN	2R01 DE03619-03	81,844
DAVIS, LAWRENCE W.....	COOPERATIVE STUDY OF RADIATION THERAPY.....	CCI	5R10 CA13457-03	66,750
DAVIS, ROBERT C.....	SPECTROSCOPIC STUDIES OF METALLOENZYMES.....	BBCA	2R01 GM19357-04	58,279
DELIVORIA-PAPADOPOULOS, M.....	PATHOPHYSIOLOGY OF TISSUE OXYGEN TRANSPORT.....	HED	5R01 HD07135-03	36,230
DETWEILER, DAVID K.....	CARDIOVASCULAR RESEARCH PROGRAM.....	HEP	5P01 HL04885-16	518,056
DETWEILER, DAVID K.....	CRITICAL REVIEW OF ELECTROCARDIOGRAPH.....	BCM	5R01 LM01660-03	24,768
DONAWICK, WILLIAM J.....	STUDY OF HEART TRANSPLANTATION AND ALS TREATMENT.....	SGYA	5R01 HL12850-06	34,780
DONOHUE, JERRY.....	HYDROGEN BONDS/STRUCTURAL STUDIES/BIOLOGICAL COMPOUNDS.....	BBCB	1R01 GM20611-01	29,246
DOTY, RICHARD L.....	HORMONAL INFLUENCES UPON HUMAN NASAL CHEMORECEPTION.....	END	1R01 NS12239-01	23,932
EASTERLIN, RICHARD A.....	SOCIOECONOMIC STUDIES OF FERTILITY.....	POP	2R01 HD05427-04	97,027
EDMUNDS, L HENRY, JR.....	PHYSIOLOGY OF PERFUSION HYPOTHERMIA IN NEWBORNS.....	SGYA	5R01 HL16616-02	83,741
ENGELMAN, KARL.....	ALTERED ADRENERGIC FUNCTION IN ESSENTIAL HYPERTENSION.....	PHRA	5R01 HL15011-03	51,877



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
ENGLANDER, S. WALTER	PHYSICAL STUDIES OF BIOLOGICAL MACROMOLECULES	BBCA	5R01 AM11295-09	65,459
ENGLANDER, S. WALTER	PHYSICAL STUDIES OF BIOLOGICAL MACROMOLECULES	BBCA	2R01 AM11295-10	92,308
EPSTEIN, ALAN N.	THE NEUROLOGICAL BASES OF FEEDING AND DRINKING	EXP	2R01 NS03469-14	59,573
ERULKAR, SOLOMON D.	PHARMACOLOGICAL STUDIES ON CENTRAL SYNAPTIC TRANSMISSION	PHRA	1R01 NS12211-01	54,441
EWENS, WARREN J.	STOCHASTIC PROCESSES IN GENETIC POPULATIONS	GEN	5R01 GM21135-02	26,630
FARRELL, JAY P.	IMMUNOLOGICAL ASPECTS OF VISCERAL LEISHMANIASIS	TMP	1R01 AI12663-01	28,634
FERGUSON, JAMES J., JR.	BIOCHEMISTRY OF SPERM AND OTHER REPRODUCTIVE TISSUES	PC	2R01 HD05507-04	64,389
FERRER, JORGE F.	VIROLOGICAL STUDIES ON BOVINE LEUKEMIA	VR	1R01 CA15195-01A1	59,418
FISCHER, GRACE M.	EFFECT OF SEX HORMONES ON VASCULAR CONNECTIVE TISSUE	CVB	1R01 HL17721-01	48,874
FISHER, ARON B.	LUNG OXIDATIVE METABOLISM AND ENERGY PRODUCTION	BIO	2R01 HL15013-04	40,966
FISHMAN, ALFRED P.	STUDY OF CARDIOVASCULAR AND PULMONARY PERFORMANCE	HEP	5P01 HL08805-11	1,019,032
FISHMAN, ALFRED P.	STUDY OF RESPONSE OF LUNG TO INJURY	SRC	5P17 HL15061-04	497,270
FLAKS, JOEL G.	METABOLISM OF NORMAL AND BACTERIOPHAGE-INFECTED E. COLI	PC	5R01 AI03899-15	60,746
FORSTER, ROBERT E.	MEASUREMENT OF RATES OF GAS UPTAKE BY HUMAN RED CELLS	CVA	5R01 HL04108-17	69,207
FRANKEL, FRED R.	REPLICATION OF THE DNA OF T-EVEN BACTERIOPHAGES	GEN	5R01 AI05722-12	59,114
FRANKEL, FRED R.	MAMMARY CANCER AND THE NUCLEAR ESTRADIOL ACCEPTOR	SSS	1R01 CA17301-01	71,977
FURTH, JOHN J.	RNA METABOLISM IN MAMMALIAN CELLS	PC	5R01 HL01039-13	51,416
GAMBETTI, PIERLUIGI	STUDIES ON SYNAPTOSOMES AND AXONS	NEUB	2R01 NS08933-06	44,601
GARFINKEL, DAVID	COMPUTER MODELING OF BIOCHEMICAL SYSTEMS	COM	5R01 GM16501-07	135,830
GARFINKEL, DAVID	COMPUTER SIMULATION IN CARDIOLOGY	COM	5R01 HL15622-02	130,481
GASIC, GABRIEL J.	ROLE OF PLATELETS AND CLOTTING IN METASTASIS	PTHB	5R01 CA15728-02	83,499
GASSER, DAVID L.	GENETIC CONTROL OF THE IMMUNE RESPONSE	GEN	5R01 CA15146-03	48,556
GELMAN, ROCHEL S.	STUDIES IN COGNITIVE DEVELOPMENT	DBR	5R01 HD04598-06	32,144
GERSH, EILEEN S.	CHROMOSOME STRUCTURE AND GENETIC FUNCTION	GEN	5R01 GM14607-09	34,313
GERSTEIN, GEORGE I.	STUDIES OF INTERACTION BETWEEN NEURONS	NEUB	5R01 NS05606-11	53,062
GINSBERG, MYRON D.	BRAIN BLOOD FLOW AND METABOLISM IN HYPOXIA-ISCHEMIA	NEUB	1R01 NS12294-01	61,822
GOLDBERG, MARTIN	ELECTROLYTE DISTURBANCE IN CARDIORENAL DISEASE	CVB	5R01 HL00340-26	282,587
GOLDFINE, HOWARD	STRUCTURE AND FUNCTION OF BACTERIAL LIPIDS	MBG	2R01 AI08903-07	58,511
GONATAS, NICHOLAS K.	CELLULAR ASPECTS OF NEUROLOGIC DISORDERS	SSS	5R01 NS05572-11	206,602
GOODGAL, SOL H.	STUDIES ON TRANSFORMATION IN HEMOPHILUS INFLUENZAE	GEN	5R01 AI04557-14	92,336
GOTS, JOSEPH S.	BIOSYNTHESIS OF PURINES	BIO	5R01 CA02790-20	65,747
GRAVER, HEBER T.	DENTAL LAMINA REGENERATION IN SALAMANDER JAWS	DEN	5R23 DE03854-02	6,300
HAUGAARD, NIELS	REGULATION OF METABOLISM BY DRUGS AND HORMONES	PHRA	5R01 HL01813-21	61,622
HOCHSTRASSER, ROBIN M.	PHOTOPROCESSES IN THE ORGANIC SOLID STATE	MCHA	5R01 GM12592-11	49,849
HOLTZER, HOWARD	MECHANISMS IN DIFFERENTIATION OF MESODERMAL TISSUES	MBY	5R01 HD00189-22	71,234
INOUE, SHINYA	STUDIES OF SUBMICROSCOPIC STRUCTURE OF LIVING CELLS	MBY	5R01 CA01071-10	150,452
JOHNSTON, FRANCIS E.	BODY SIZE IN DEVELOPING NATIONS	NTN	1R22 HD08939-01	18,899
JOULLIE, MADELEINE M.	SYNTHESIS OF POTENTIAL DIURETIC AND HYPOLIPYCEMIC AGENTS	MCHA	5R01 GM18028-02	31,955
KAJI, AKIRA	DRUG RESISTANCE FACTOR AND HOST PLASMID RELATIONSHIP	MBG	1R01 AI12337-01A1	32,871
KAJI, AKIRA	BIOCHEMICAL CONTROL OF MACROMOLECULE SYNTHESIS	PC	5R01 GM12053-12	64,752
KALLEN, ROLAND G.	MECHANISMS OF BIOCHEMICAL CATALYSIS (C-C & C-N BONDS)	BIO	3R01 GM13777-09S1	11,118
KALLENBACH, NEVILLE R.	PROPERTIES, FUNCTIONS AND APPLICATIONS OF RNA LIGASES	BIO	1R01 GM22258-01	55,975
KARUSH, FRED	INTERACTIONS OF IMMUNOGLOBULINS	ALY	2R01 AI09492-15	120,941
KASTOR, JOHN A.	MECHANISMS OF SINO-ATRIAL AND ATRIAL ARRHYTHMIAS	CVB	5R01 HL14807-03	30,689
KIM, SEUNG U.	EXPERIMENTAL NEUROPATHOLOGY IN TISSUE CULTURE	PTHA	5R01 NS10648-03	46,351
KLEINZELLER, ARNOST	ACTIVE SUGAR TRANSPORT IN RENAL CELLS	PHY	5R01 AM12619-08	60,894
KLINMAN, NORMAN R.	CLONAL ANALYSIS OF THE IMMUNE MECHANISM	ALY	5R01 AI08778-07	68,047
KOELLE, GEORGE B.	NEUROHUMORAL TRANSMITTERS AND RELATED DRUGS	PHRA	5R01 NS00282-23	95,199
KOZINSKI, ANDRZEJ W.	INTERACTION OF VIRUSES WITH HOST CHROMOSOMES	VR	5R01 CA10055-09	42,791
KRITCHEVSKY, DAVID	ACID AND ALKALINE LIPASES IN AORTAS OF VARIOUS SPECIES	PTHA	5R01 HL13722-05	18,143
KRON, REUBEN E.	FRESH BLOOD RHEOLOGY IN RELATION TO CARDIOVASCULAR RISK	CVB	1R01 HL17408-01	57,338
KUHL, DAVID E.	QUANTITATIVE SECTION SCANNING IN BRAIN TUMOR AND STROKE	RAD	3R01 GM16248-16S1	13,688
KUHL, DAVID E.	QUANTITATIVE SECTION SCANNING IN BRAIN TUMOR AND STROKE	RAD	5R01 GM16248-17	117,370
LAMBERTSEN, CHRISTIAN J.	TOLERANCE TO RESPIRATORY GASES IN HEALTH AND DISEASE	HEP	2P01 HL08899-11	753,961
LANGENBERG, DONALD N.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07083-10	72,094
LANGFITT, THOMAS W.	HEAD INJURY CLINICAL RESEARCH CENTER	NSPA	5P01 NS08803-05	405,987
LASH, JAMES W.	ANALYSIS OF CHONDROGENESIS	CBY	5R01 HD00380-17	87,930
LEBOY, PHOEBE S.	TRNA METHYLASES IN NORMAL AND NEOPLASTIC TISSUE	MBY	5R01 CA10586-08	44,561
LEE, CHUAN-PU	SUBCELLULAR RESPIRATORY FUNCTIONS OF CARDIAC MUSCLE	BIO	5R01 GM19636-03	64,429
LEVINE, SANFORD	METABOLIC CONTROL OF VENTILATION	PHY	1R01 HL17562-01	34,073

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
LIEBMAN, PAUL A.....	MICROPHOTOMETRIC STUDY OF RETINAL RODS AND CONES.....	VISB	2R01 EY00012-12	94,464
LIEBMAN, PAUL A.....	VISION RESEARCH CENTER.....	SRC	1P01 EY01583-01	107,750
LITT, MITCHELL.....	PHYSICOCHEMICAL PROPERTIES OF TRACHEAL MUCUS.....	BBCB	2R01 HL14271-03	48,175
LO, CHAI-HO W.....	STUDIES OF THE PLASMA MEMBRANES OF GUSTATORY TISSUES.....	CMS	1R01 DE04348-01	58,318
MACK, ROBERT W.....	THE RELATIONSHIP OF INFANT GROWTH TO ADOLESCENT OBESITY.....	EDC	5R01 HD07924-02	92,946
MARSH, JULIAN B.....	BIOSYNTHESIS OF PLASMA LIPOPROTEIN.....	MET	5R01 HL05285-15	32,208
MARSHAK, ROBERT R.....	COMPARATIVE LEUKEMIA STUDIES UNIT.....	CAP	5P01 CA14193-03	440,795
MARSHAK, ROBERT R.....	LABORATORY ANIMAL CARE PROGRAM.....	AR	5P06 RR00766-03	8,670
MARSHAK, ROBERT R.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05464-13	160,191
MARSHALL, BRYAN E.....	CAUSES AND EFFECTS OF LUNG WATER ACCUMULATION.....	SGYA	1R01 HL16916-01	74,736
MASTROIANNI, LUIGI, JR.....	A COORDINATED PROGRAM IN REPRODUCTIVE BIOLOGY.....	HDPR	5P01 HD06274-04	541,051
MC ARTHUR, WILLIAM P.....	AVIAN ANTITUMOR IMMUNITY.....	ALY	1R01 CA16576-01	45,679
MC DONALD, GEORGE G.....	SUPPORT FOR NMR SPECTROMETER FACILITY.....	BBCB	2P07 RR00542-05	72,339
MC FEELY, RICHARD A.....	CHROMOSOME STUDIES OF MAMMALIAN EMBRYOS.....	HED	5R01 HD04355-10	55,354
MELA, LEENA M.....	ALTERED MITOCHONDRIAL FUNCTION IN SHOCK.....	BIO	5R01 GM19867-03	30,516
MELLMAN, WILLIAM J.....	UNIVERSITY OF PENNSYLVANIA HUMAN GENETICS CENTER.....	SSS	5P01 GM20138-02	479,071
MELLMAN, WILLIAM J.....	BIOCHEMICAL GENETICS OF CULTURED HUMAN CELLS.....	GEN	5R01 HD00588-13	80,157
MELLMAN, WILLIAM J.....	THE GENETICS OF CALACTOSE ENZYME DETERMINANTS IN MAN.....	GEN	5R01 HD04861-06	64,428
MERRITT, ALFRED M, II.....	DISSECTION OF GASTRIC SECRETORY CONTROL.....	SGYA	5R01 AM16598-02	39,999
MIKUTA, JOHN J.....	GYNECOLOGIC ONCOLOGY GROUP.....	CCI	5R10 CA15977-02	45,090
MILLER, MICHAEL F.....	IMMUNE ASPECTS OF RECURRENT APHTHOUS ULCERS.....	IMB	5R23 DE03874-02	10,064
MITRUKA, BRIJ M.....	GAS CHROMATOGRAPHY AS AN AID IN CLINICAL PATHOLOGY.....	BM	2R01 GM21443-02	99,555
MONTGOMERY, PAUL C.....	MOLECULAR DIVERSITY OF SECRETORY ANTIBODIES.....	ALY	1R01 AI12314-01A1	45,563
MOORE, E NEIL.....	ELECTROPHYSIOLOGY OF FIBRILLATION.....	CVB	5R01 HL16076-02	48,869
MORAD, MARTIN.....	ELECTROPHYSIOLOGICAL STUDY OF HEART ACTION.....	CVA	5R01 HL16152-02	42,801
MORAD, MARTIN.....	DYES AS ELECTROCHROMIC PROBES IN CARDIAC TISSUES.....	PHY	1R01 HL17702-01	46,839
MORRISON, ADRIAN R, JR.....	CORTICAL-THALAMIC RELATIONSHIPS.....	NEUA	5R01 NS06716-09	40,791
MYERS, HOWARD M.....	CENTER FOR ORAL HEALTH RESEARCH.....	DSR	5P13 DE02623-09	1,310,000
NACHMIAS, VIVIANNE T.....	CYTOPLASMIC STREAMING AND CONTRACTILE PROTEINS.....	CBY	2R01 AM17492-03A1	56,099
NARASIMHULU, SHAKUNTHALA.....	STERIOD HORMONE SYNTHESIS AND ADRENAL MICROSOMAL P-450.....	END	1R01 AM18545-01	40,456
NASS, MARGIT M.....	MITOCHONDRIAL GENETIC SYSTEM IN NORMAL & CANCER CELLS.....	MBY	5R01 CA13814-03	103,916
NILSSON, ULF R.....	STRUCTURE AND FUNCTION OF HUMAN C5.....	ALY	5R01 AM13515-06	42,452
NOORDERGRAAF, ABRAHAM.....	COMPUTER STUDIES OF HUMAN CIRCULATORY SYSTEM.....	CVA	3R01 HL10330-08S1	18,870
NOWELL, PETER C.....	STUDY OF LEUKOCYTE REGULATORY MECHANISMS.....	PTHB	5R01 CA12779-03	40,539
NOWELL, PETER C.....	CANCER CENTER SUPPORT GRANT.....	CAP	1P01 CA16520-01	578,536
OLIET, SEYMOUR.....	IMPROVEMENT IN CHARACTERISTICS AND USE OF GUTTA-PERCHA.....	DEN	1R01 DE04206-01	44,512
ORKAND, RICHARD K.....	LONG-TERM INTERACTIONS OF NEURONS AND GLIA.....	PHY	7R01 NS12253-01	40,981
ORKAND, RICHARD K.....	LONG-TERM INTERACTIONS OF NEURONS AND GLIA.....	PHY	2R01 NS12253-02	89,209
OSTROW, J DONALD.....	ALTERNATE PATHWAYS OF BILIRUBIN METABOLISM.....	GMA	5R01 AM14543-05	23,611
PATTERSON, DONALD F.....	HEREDITARY DEFECTS IN CARDIOVASCULAR DEVELOPMENT.....	CVB	5R01 HL10995-08	86,748
PIDDINGTON, RONALD L.....	THE ROLE OF GLUTAMINE SYNTHETASE IN NEUROGENESIS.....	CBY	2R01 HD05558-04	12,092
PIZER, LEWIS I.....	CONTROL MECHANISMS IN PRO- AND EUKARYOTIC CELLS.....	BIO	5R01 AI03957-15	60,833
PRING, MARTIN.....	MEDICAL SCHOOL COMPUTER FACILITY.....	COM	5P07 RR00015-13	195,417
RASMUSSEN, HOWARD.....	HORMONAL AND IONIC CONTROL OF METABOLISM.....	AMP	5P01 AM09650-11	263,934
REED, GEORGE H.....	NMR STUDIES OF PHOSPHOLIPASE A2-MICELLAR SYSTEMS.....	BBCB	5R01 AM17517-02	29,334
RELIVICH, MARTIN.....	CBF AND METABOLISM IN STROKE AND SHOCK.....	NSPA	5P01 NS10939-03	472,071
RELMAN, ARNOLD S.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00040-15	608,210
ROBERTS, BRYAN W.....	SYNTHESIS OF SESQUITERPENOID ANTITUMOR AGENTS.....	MCHA	5R01 CA12008-07	51,789
ROOT, RICHARD K.....	HUMAN PHAGOCYTE FUNCTION IN HEALTH AND DISEASE.....	PTHA	2R01 AI10600-04	60,284
ROSAN, BURTON.....	MICROBIOLOGIC STUDIES OF THE HUMAN ORAL STREPTOCOCCI.....	DEN	5R01 DE03180-05	76,474
RUTMAN, ROBERT J.....	MECHANISM OF ACTION OF ALKYLATING AGENTS.....	ET	5R01 CA05295-15	154,978
SANGER, JOSEPH W.....	FLUORESCENT PROTEIN TRACERS FOR CELL MOTILITY STUDIES.....	CBY	1R01 GM22293-01	85,735
SCANDURA, JOSEPH M.....	MECHANISMS OF PROBLEM SOLVING IN CHILDREN.....	EXP	1R01 HD09185-01	57,905
SCHOTLAND, DONALD L.....	CYTOCHEMICAL STUDIES OF SKELETAL MUSCLE MITOCHONDRIA.....	PTHA	5R01 NS08045-05	28,895
SCHWAN, HERMAN P.....	ELECTRICAL AND ACOUSTIC PROPERTIES OF BIOLOGIC MATERIAL.....	SSS	5R01 HL01253-23	75,697
SCHWARTZMAN, ROBERT M.....	GENETIC TRAITS IN ATOPIC SUBJECTS.....	ALY	1R01 AI12295-01	21,675
SILBERBERG, DONALD H.....	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS.....	NSPB	5P01 NS11037-02	298,249
SILVERS, WILLYS K.....	THE LYMPHOCYTE AND CELLULAR IMMUNITY.....	ALY	9R01 CA18640-06	78,754
SINGER, IRWIN.....	RENAL ION TRANSPORT: FIXED-CHARGE MEMBRANE MODEL.....	GMB	5R01 AM17344-05	71,118
SNYDER, PETER J.....	CONTROL OF FSH AND LH SECRETION IN MAN.....	REB	1R01 HD08555-01	50,851

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
SOLOMON, GENE B.....	FORMATION OF GRANULOMATA BY A PARASITE.....	TMP	2R01 A110898-04	41,151
SOLOWAY, ROGER D.....	GALLSTONES AND LIVER DYSFUNCTION IN SICKLE CELL DISEASE.....	GMA	5R01 AM16549-02	67,575
SOMLYO, ANDREW P.....	STUDY OF MUSCLES RELATED TO HEART DISEASE.....	HEP	5P01 HL15835-02	958,711
SOULSBY, ERNEST J.....	IN VITRO AND IN VIVO CORRELATES OF HELMINTH IMMUNITY.....	SSS	5R01 A106262-11	62,755
STEIN, THOMAS P.....	NITROGEN POOLS AND TURNOVER IN SURGICAL PATIENTS.....	SGYA	5R01 AM16658-02	52,365
STEMMLER, EDWARD J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05415-14	255,345
STERLING, PETER.....	ANATOMY AND PHYSIOLOGY OF VISUOMOTOR SYSTEMS.....	VIS	5R01 EY00828-04	58,921
SUYAMA, YOSHITAKA.....	MULTIPLE ISOACCEPTING FORMS OF MITOCHONDRIAL TRNA.....	CBY	5R01 GM21386-02	34,455
TAICHMAN, NORTON S.....	LEUKOCYTES IN THE PATHOGENESIS OF PERIODONTAL DISEASE.....	DEN	1R01 DE03995-01	113,412
TSOU, KWAN C.....	CYTOCHEMICAL SUBSTRATES RELATED TO CANCER CHEMOTHERAPY.....	ET	5R01 CA07339-11	92,600
UTIGER, ROBERT D.....	THYROID-STIMULATING HORMONES IN PLASMA.....	END	2R01 AM14039-07	66,173
VAN DE WALL, ETIENNE.....	FERTILITY DECLINE IN A BELGIAN VILLAGE, 1846-1880.....	POP	1R01 HD08760-01	30,806
VANDERKOOI, JANE M.....	OXYGEN DIFFUSION IN BIOLOGICAL MEMBRANES.....	BBCA	1R01 GM21699-01	22,764
VOET, DONALD H.....	THE X-RAY STRUCTURE OF PYROPHOSPHATASE.....	BBCB	1R01 GM20568-01	41,323
WALLACE, HERBERT W.....	SURGERY WITH ASSISTED AND TOTAL BYPASS. BLOOD CHANGES.....	SGYB	5R01 HL15183-02	59,757
WALLACE, HERBERT W.....	SURGERY AND PULMONARY TISSUE ALTERATIONS.....	SGYA	1R01 HL18143-01	62,033
WARREN, LEONARD.....	STUDY OF SURFACE MEMBRANES OF NORMAL AND CANCER CELLS.....	MBY	5R01 CA13992-03	123,020
WEBER, ANNEMARIE A.....	TROPONIN ACTION IN CARDIAC AND SKELETAL MUSCLE.....	PHY	5R01 HL15367-03	19,310
WEBER, ANNEMARIE A.....	CONTROL OF FORCE DEVELOPMENT IN HEART AND MUSCLE.....	PHY	5R01 HL15692-03	54,871
WEBER, KARL T.....	HEMODYNAMICS OF MYOCARDIAL OXYGEN CONSUMPTION.....	CVA	1R01 HL17441-01	48,788
WEBER, WILFRIED T.....	LYMPHOCYTE FUNCTIONAL CAPACITIES.....	IMB	5R01 AM11693-08	26,498
WILEY, JAMES S.....	REGULATION OF CELL VOLUME IN DISEASE STATES.....	HEM	5R01 HL16201-02	52,521
WILLIAMSON, JOHN R.....	CONTROL OF METABOLISM IN NORMAL AND DISEASED STATES.....	MET	5R01 AM15120-05	89,639
WILLIAMSON, JOHN R.....	CARDIAC METABOLISM IN HEART FAILURE.....	CVB	2R01 GM21524-01	101,349
WILSON, DARCY B.....	IMMUNOLOGIC ASPECTS OF AGING AND NEOPLASIA.....	IMB	5R01 A110961-03	58,772
WILSON, DARCY B.....	IMMUNOBIOLOGY OF NORMAL AND NEOPLASTIC LYMPHOCYTES.....	CAK	5P01 CA15822-02	766,545
WILSON, DAVID F.....	OXYGEN DEPENDENCE OF MITOCHONDRIAL FUNCTION.....	BIO	1R01 GM21524-01	59,001
WINEGRAD, ALBERT I.....	STUDIES OF THE URONIC ACID PATHWAY IN HUMAN DIABETES.....	MET	5R01 AM04722-15	84,955
WINEGRAD, SAUL.....	CELLULAR BASIS OF CARDIAC CONTRACTILITY.....	PHY	5R01 HL16010-13	46,403
WOLF, DON P.....	THE ROLE OF CORTICAL GRANULES IN FERTILIZATION.....	CBY	1R01 HD07635-01A1	61,407
WOLLMAN, HARRY.....	CENTER FOR RESEARCH IN ANESTHESIA.....	SSS	5P01 GM15430-08	689,960
YONETANI, TAKASHI.....	STRUCTURE AND FUNCTION OF RESPIRATORY HEMOPROTEINS.....	BBCB	5R01 HL14508-07	108,779
ZEIDMAN, IRVING.....	EFFECT OF 5-BROMODEOXYURIDINE ON MARROW AND TUMOR CELLS.....	ET	5R01 CA14985-03	40,496
ORGANIZATION TOTAL	215 24,936,760			
<b>WILLS EYE HOSPITAL ZIP CODE 19130</b>				
BARBER, G WINSTON.....	LENS METABOLISM AND EXPERIMENTAL CATARACT.....	SSS	5R01 EY00225-14	75,609
FEDERMAN, JAY L.....	TUMOR ASSOCIATED ANTIBODIES AGAINST OCULAR MELANOMAS.....	VISA	1R01 EY01467-01	33,120
PELTZ, RICHARD.....	CATARACT AND LENS DETERIORATION DUE TO MATURATION.....	VISA	5R01 EY00555-05	49,605
SERY, THEODORE W.....	STUDIES ON RETINAL CELLS IN TISSUE CULTURE.....	PTHB	5R01 CA12850-04	64,137
SERY, THEODORE W.....	RESPONSE OF CORNEAL STROMA TO INJECTIONS OF PROTEINS.....	VISA	5R01 EY00195-18	86,459
SERY, THEODORE W.....	EXPERIMENTAL HERPES VIRUS CORNEAL INFECTIONS.....	VISA	1R01 EY01454-01	64,968
SERY, THEODORE W.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05510-12	47,459
SPEATH, GEORGE L.....	THE PATHOGENESIS OF VISUAL LOSS IN GLAUCOMA.....	VISA	2R01 EY00677-04	74,566
ORGANIZATION TOTAL	8 495,923			
<b>WISTAR INSTITUTE OF ANATOMY AND BIOLOGY ZIP CODE 19104</b>				
CRISTOFALO, VINCENT J.....	CELLULAR SENESCENCE AND CONTROL OF CELL PROLIFERATION.....	HDAG	2P01 HD06323-04	505,185
CROCE, CARLO M.....	MAPPING OF TUMOR VIRUS GENOMES IN TRANSFORMED CELLS.....	GEN	1R01 CA16685-01	184,809
CROCE, CARLO M.....	ENZYME MARKERS IN THE MAPPING OF HUMAN GENES.....	GEN	3R01 GM20700-01S1	4,950
DIAMOND, LEILA.....	THE EFFECT OF CHEMICAL CARCINOGENS ON CELLS IN VITRO.....	PTHB	5R01 CA08936-09	110,915
HALPERN, MICHAEL S.....	VIRAL PROTEIN IN AVIAN SARCOMA VIRUS-INFECTED CELLS.....	VR	5R01 CA16047-02	43,702
KOPROWSKI, HILARY.....	STUDY OF RABIES AND OF RABIES VIRUS ANTIGENS.....	VR	5R01 AI09706-05	168,535
KOPROWSKI, HILARY.....	CONSOLIDATED BASIC CANCER RESEARCH PROGRAM.....	CAP	5P01 CA10815-07	2,129,810
KOPROWSKI, HILARY.....	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS.....	NSPB	5P01 NS11036-02	581,162
KOPROWSKI, HILARY.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05540-13	185,653
KRITCHEVSKY, DAVID.....	DIETARY EFFECTS ON CHOLESTEROL METABOLISM.....	SSS	5R01 HL03299-18	53,736
KRITCHEVSKY, DAVID.....	LIPID METABOLISM.....	MET	5R01 HL05209-15	94,049
LEVINE, ELLIOT M.....	MOLECULAR BIOLOGY OF CELLULAR INTERACTIONS.....	MBY	5R01 GM20306-03	55,515
LEWANDOWSKI, LEON J.....	THE STRUCTURE AND REPLICATION OF TUMOR VIRUS RNA.....	VR	3R01 CA15464-02S1	538



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
MANSON, LIONEL A.....	ROLE OF TRANSPLANTATION ANTIGENS IN MALIGNANT CELLS.....	IMB	2R01 CA07973-10	89,277
ROTHBLAT, GEORGE H.....	STEROL METABOLISM IN TISSUE CULTURE CELLS.....	MET	5R01 HL09103-11	99,450
ROVERA, GIOVANNI.....	CONTROL MECHANISMS OF THE G1 PHASE OF THE CELL BLOCK.....	CBY	7R01 CA18603-01	27,153
SILVERS, WILLYS K.....	CELLULAR ANTIGENS OF NORMAL AND MALIGNANT RAT TISSUES.....	ALY	5R01 CA10097-08	85,524
SOLTER, DAVOR.....	BIOLOGY OF EXPERIMENTAL TERATOCARCINOMAS.....	PTHB	1R01 CA17546-01	68,978
WHITTAKER, J RICHARD.....	MELANOGENESIS-RELATED DRUG INCORPORATION BY MELANOMAS.....	ET	1R01 CA17591-01	116,012
WHITTAKER, J RICHARD.....	EGG CYTOPLASMIC INFORMATION IN CELL DIFFERENTIATION.....	CBY	1R01 HD09201-01	109,588
ORGANIZATION TOTAL	20 4,714,541			
<b>ZOOLOGICAL SOCIETY OF PHILADELPHIA ZIP CODE 19104</b>				
RAPP, JOHN P.....	BIOCHEMICAL PROBLEMS WITH ALDOSTERONE AND DOC.....	GMB	5R01 HL11293-09	148,282
SNYDER, ROBERT L.....	CARDIOCEREBROVASCULAR DISEASE AND BEHAVIOR.....	EXP	3R01 HL01979-18S1	9,688
SNYDER, ROBERT L.....	ARTERIOSCLEROSIS IN ZOO ANIMALS ON CONTROLLED DIETS.....	PTHA	2R01 HL01979-19	37,943
ORGANIZATION TOTAL	3 195,913			
<b>PITTSBURGH</b>				
<b>ALLEGHENY GENERAL HOSPITAL ZIP CODE 15212</b>				
ACEVEDO, HERNAN F.....	NONESTERIFIED CHOLESTEROL AS INDEX OF GENITAL CARCINOMA.....	PTHB	5R01 CA12092-04	25,569
CONCANNON, JOSEPH P.....	CLINICAL RADIATION THERAPY RESEARCH CENTER.....	CAP	5P02 CA10438-09	473,453
CONCANNON, JOSEPH P.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	1P01 CA16248-01	137,761
PUSCHETT, JULES B.....	STUDY OF ANIONIC TRANSPORT IN PROXIMAL TUBULE.....	PHY	5R01 AM17575-02	45,798
ROSENTHAL, ARTHUR.....	CHARACTERIZE HUMAN CHOLESTEROL BINDING PROTEIN.....	BIO	1R01 HL18203-01	17,638
SCHIFFER, LEWIS M.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05709-06	75,065
WATERS, HAROLD.....	CONTROL OF HL-A EXPRESSION IN LEUKEMIA CELLS.....	PTHB	1R01 CA16587-01	21,685
ORGANIZATION TOTAL	7 796,969			
<b>AMERICAN INSTITUTES FOR RESEARCH ZIP CODE 15219</b>				
FLEISHMAN, EDWIN A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05615-08	41,728
ORGANIZATION TOTAL	1 41,728			
<b>CARNEGIE-MELLON UNIVERSITY ZIP CODE 15213</b>				
BOTHNER-BY, ANSEL A.....	NUCLEAR OVERHAUSER EFFECT IN BIOMOLECULAR COMPLEXES.....	BBCB	5R01 AM16532-03	38,356
CUSSLER, EDWARD L, JR.....	RATE PROCESSES AFFECTING CHOLESTEROL GALLSTONE FORMATION.....	BBCB	5R01 AM16143-03	64,421
DETWILER, JOHN S.....	EVALUATION OF VARIABILITY IN THE PERINATAL HEART RATE.....	CVB	1R01 HD09084-01	24,976
ELLISON, JOHN R.....	CYTOCHEMISTRY AND STRUCTURE OF CHROMOSOMES.....	GEN	5R01 GM20922-02	42,170
GOLDMAN, ROBERT D.....	NORMAL AND TUMOR-VIRUS TRANSFORMED CELL BEHAVIOR.....	SSS	1R01 CA17210-01	91,272
HARTSHORNE, DAVID J.....	BIOCHEMISTRY OF CONTRACTILE PROTEINS.....	BBCB	2R01 HL09544-10	75,510
JONES, ELIZABETH W.....	GENETIC REGULATION OF TETRAHYDROFOLATE METABOLISM.....	GEN	3R01 AM18090-01S1	33,117
JONES, ELIZABETH W.....	GENETIC REGULATION OF TETRAHYDROFOLATE METABOLISM.....	GEN	5R01 AM18090-02	48,918
MAYFIELD, JOHN E.....	THE MOLECULAR ORGANIZATION OF EUKARYOTIC CHROMOSOMES.....	GEN	5R01 GM21271-02	39,855
POWERS, GARY J.....	COMPUTER-AIDED PLANNING OF OPTIMAL DNA SYNTHESSES.....	COM	1R01 GM22041-01	69,344
REICHERT, THOMAS A.....	A QUANTITATIVE STUDY OF GENETIC INFORMATION TRANSFER.....	COM	2R01 GM18712-03	34,179
RICE, ROBERT V.....	BIOPHYSICAL STUDIES ON FIBROUS PROTEINS.....	MBY	5R01 AM02809-17	89,186
SCHATZ, EDWARD R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07081-10	44,667
WORTHINGTON, C R.....	MOLECULAR STRUCTURE OF SARCOPLASMIC RETICULUM.....	BBCB	5R01 GM20804-02	34,003
WORTHINGTON, C R.....	MOLECULAR STRUCTURE OF NERVE AND PHOTORECEPTORS.....	BBCB	5R01 NS09329-05	68,785
ORGANIZATION TOTAL	15 798,759			
<b>CHILDREN'S HOSPITAL OF PITTSBURGH ZIP CODE 15213</b>				
ALBO, VINCENT C.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	CCI	2R10 CA07439-12	65,810
FETTERMAN, GEORGE H.....	A STUDY OF IMMATURE KIDNEYS BY MICRODISSECTION.....	PTHA	2R01 HD00659-16	33,801
FIREMAN, PHILIP.....	MECHANISMS OF HYPERSENSITIVITY.....	IMB	5R01 HD02662-08	34,974
FIREMAN, PHILIP.....	STUDY OF DEVELOPMENT OF IMMEDIATE HYPERSENSITIVITY.....	IMB	5R01 HD07850-02	22,034
GITLIN, DAVID.....	METABOLISM OF PLASMA AND CELL PROTEINS.....	PTHB	5R01 HD00652-12	27,391
GITLIN, DAVID.....	THE MATERNOFETAL BARRIER AND FETAL METABOLISM.....	ALY	2R01 HD01031-11	6,474
KENNY, FREDERIC M.....	ESTROGEN METABOLISM DURING GROWTH AND DEVELOPMENT.....	END	5R01 HD07371-02	18,044
MURPHY, JEROME V.....	ENZYMATIC DETECTION OF NEURODEGENERATIVE DISORDERS.....	MET	5R01 HD07465-02	6,725
OLIVER, THOMAS K, JR.....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.....	CLR	2M01 RR00084-13	334,541

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
OLIVER, THOMAS K, JR.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05507-13	67,183
PARADISE, JACK L.....	INDICATIONS FOR TONSILLECTOMY AND ADENOIDECTOMY.....	EDC	5R01 HD07403-03	108,244
STEELE, MARK W.....	GENETICS OF X-CHROMOSOMES AND MALIGNANT HYBRIDIZATION.....	GEN	5R01 CA12113-05	50,256
ORGANIZATION TOTAL	12 775,477			
<b>DUQUESNE UNIVERSITY ZIP CODE 15219</b>				
CASTRIC, PETER A.....	PURIFICATION AND CHARACTERIZATION OF UREA AMIDOLYASE.....	BIO	1R01 GM20419-01	33,293
GAWRON, OSCAR.....	CHEMISTRY OF KREBS' CYCLE ENZYMES.....	PC	5R01 GM06245-16	46,980
ORGANIZATION TOTAL	2 80,273			
<b>EYE AND EAR HOSPITAL OF PITTSBURGH ZIP CODE 15213</b>				
BILGER, ROBERT C.....	AUDITORY DYSFUNCTION: THE COCHLEA.....	CDR	7P15 NS12501-01	101,434
BROWN, STUART I.....	COLLAGENOLYTIC SYSTEMS IN NORMAL AND DISEASED CORNEAS.....	VISA	5R01 EY01490-02	50,575
HOPKINSON, NORMA T.....	OTOADMITTANCE SCREENING ON PRESCHOOL CHILDREN.....	CMS	1R01 NS12210-01	53,543
MYERS, EUGENE N.....	HISTOPATHOLOGY OF THE TEMPORAL BONES OF CHILDREN.....	CMS	7R01 NS12748-01	35,184
O'LEARY, DENNIS P.....	STUDY OF THE SEMICIRCULAR CANAL AFFERENT RESPONSES.....	CMS	7R01 NS12494-01	42,692
ORGANIZATION TOTAL	5 283,428			
<b>MAGEE-WOMEN'S HOSPITAL ZIP CODE 15213</b>				
HAYASHI, T TERRY.....	PLACENTAL AND FETAL RNA METABOLISM.....	HED	5R01 HD04072-07	30,627
HAYASHI, T TERRY.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05570-10	32,529
JOSIMOVICH, JOHN B.....	HCS AND PROLACTIN IN AMNIOTIC FLUID AND FETAL HEALTH.....	HED	5R01 HD06929-03	22,599
ORGANIZATION TOTAL	3 85,755			
<b>MERCY HOSPITAL OF PITTSBURGH ZIP CODE 15219</b>				
KATOH, ARTHUR K.....	ULTRASTRUCTURAL IMMUNOCHEMISTRY OF LENS CRYSTALLINS.....	VISA	1R01 EY00908-01	15,406
ORGANIZATION TOTAL	1 15,406			
<b>MONTEFIORE HOSPITAL ZIP CODE 15213</b>				
ADIBI, SIAMAK A.....	INTESTINAL TRANSPORT AND METABOLISM OF PEPTIDES.....	GMA	2R01 AM15861-04	75,593
ADLER, SHELDON.....	RELATION OF POTASSIUM, METABOLISM, HORMONES TO CELL PH.....	PHY	5R01 AM17793-05	23,694
CAVALLO, TITO.....	GLOMERULAR PERMEABILITY STUDIES IN GLOMERULONEPHRITIS.....	GMB	1R01 AM18457-01	43,752
MENDELLOW, HARVEY.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05592-05	41,833
NORDEN, CARL W.....	HEMOPHILUS INFLUENZAE TYPE B INFECTIONS.....	BM	5R01 AI11932-02	18,796
VAGNUCCI, ANTHONY H.....	MECHANISM OF RENAL CIRCADIAN CYCLES.....	GMB	5R01 HL12707-05	42,446
WINKELSTEIN, ALAN.....	IMMUNOSUPPRESSANTS AND LYMPHOCYTE FUNCTION.....	SSS	1R01 AI11739-01A2	55,610
WOLFSON, SIDNEY K, JR.....	BIOAUTOFUEL CELL: IMPLANTABLE DIRECT ENERGY CONVERTER.....	SGYA	2R01 GM19419-04	67,349
ORGANIZATION TOTAL	8 369,073			
<b>MPC CORPORATION ZIP CODE 15213</b>				
BOTHNER-BY, AKSEL A.....	NMR FACILITY FOR BIOMEDICAL STUDIES.....	BBCB	5P07 RR00292-10	151,399
ORGANIZATION TOTAL	1 151,399			
<b>PITTSBURGH CHILD GUIDANCE CENTER ZIP CODE 15213</b>				
SCHACHTER, JOSEPH.....	HYPERTENSION PRECURSORS: CHARACTERISTICS AT BIRTH.....	EDC	1R01 HL17436-01	63,229
ORGANIZATION TOTAL	1 63,229			
<b>UNIVERSITY OF PITTSBURGH ZIP CODE 15260</b>				
ABRAHAM, DONALD J.....	MOLECULAR INTERACTIONS OF NUCLEIC ACIDS.....	BBCA	3R01 CA12391-03S1	12,810
ABRAMS, RICHARD.....	CONTROL FACTORS FOR DNA SYNTHESIS.....	BIO	5R01 CA08395-10	49,820
ABRAMS, RICHARD.....	MASS SPECTROMETRIC FACILITY FOR BIOMEDICAL RESEARCH.....	SSS	5P07 RR00273-10	67,666
ALARIE, YVES C.....	RESPIRATORY TRACT IRRITANTS: DESENSITIZATION.....	TOX	5R01 ES08872-02	44,025
AXELROD, ABE E.....	ROLE OF PANTOTHENIC ACID IN PROTEIN METABOLISM.....	ALY	1R01 HD08549-01	36,362
BASFORD, ROBERT E.....	MITOCHONDRIAL PHOSPHATE CARRIER.....	BIO	5R01 GM12156-02	44,846
BASFORD, ROBERT E.....	REGULATION OF GLYCOLYSIS IN BRAIN.....	NEUB	5R01 NS11773-02	36,947
BATES, MARGARET W.....	CONTROL OF FATTY ACID METABOLISM IN THE INTACT ANIMAL.....	NTN	5R01 AM13988-06	19,306
BENNETT, MARVIN H.....	OLFACTORY DISCRIMINATION.....	CMS	5R01 NS10140-04	18,036
BENTLEY, RONALD.....	BIOCHEMICAL C-METHYLATION OF AROMATIC COMPOUNDS.....	BIO	5R01 GM20053-11	63,775
BIANCULLI, JOSEPH A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05455-13	20,168
BILGER, ROBERT C.....	UNDERLYING CONSTRUCTS IN AUDITORY FUNCTION.....	SSS	2R01 NS04105-12A1	70,433

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
BLAINE, EDWARD H.....	RELATION OF RENAL ENDOCRINE FUNCTION TO HYPERTENSION.....	CVB	5R01 HL16483-02	36,119
BOGGS, DANE R.....	KINETICS AND CONTROL OF NEUTROPHILIC GRANULOCYTES.....	SSS	3R01 AM14352-06S1	29,544
BOGGS, DANE R.....	KINETICS AND CONTROL OF NEUTROPHILIC GRANULOCYTES.....	SSS	2R01 AM14352-07	119,725
BOGGS, DANE R.....	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE.....	SRC	5P18 HL15165-04	391,389
BORLE, ANDRE B.....	CELLULAR CONTROL OF CALCIUM METABOLISM.....	GMB	5R01 AM07867-12	86,085
CAMPBELL, IAIN M.....	NAPHTHOQUINONE METABOLISM IN PLANTS AND BACTERIA.....	BIO	5R01 AI11819-02	35,735
CAUNA, NIKOLAJ S.....	FINE STRUCTURE AND CHEMISTRY OF NERVE ENDINGS.....	PTHA	5R01 NS04147-13	35,656
CHAY, TERESA R.....	PROPERTIES OF HUMAN HEMOGLOBINS AND UNWINDING OF DNA.....	BBCB	5R01 GM20569-02	18,030
CHERVENICK, PAUL A.....	GROWTH AND MATURATION OF HEMATOPOIETIC STEM CELLS.....	HEM	5R01 CA14278-02	56,019
CHIU, TEH-HSING.....	LIPOTEICHOIC ACIDS—METABOLISM AND ROLE IN DENTISTRY.....	MBC	1R01 DE04225-01	36,522
CHUNG, ALBERT E.....	REGULATION OF COENZYME LEVELS IN BIOLOGICAL SYSTEMS.....	PC	5R01 NS09027-05	45,222
COFFEE, CAROLE J.....	STRUCTURE AND FUNCTION OF MUSCLE REGULATORY PROTEINS.....	BBCB	5R01 AM16728-03	41,568
COHEN, THEODORE.....	THE BIOGENESIS OF CYCLOPROPANE RINGS.....	MCHB	5R01 GM20707-02	36,326
COLAVITA, FRANCIS B.....	NONAUDITORY FUNCTIONS OF AUDITORY CORTEX.....	CMS	5R01 NS09027-05	33,234
COOPER, TERRANCE G.....	SYNTHESIS AND ASSEMBLY OF ENZYMES IN EUKARYOTES.....	BIO	2R01 GM19386-04	35,262
COOPER, TERRANCE G.....	GENETICS AND ISOLATION OF A EUKARYOTIC CONTROL PROTEIN.....	GEN	5R01 GM20693-02	27,429
CRAVEN, BRYAN M.....	CRYSTAL STRUCTURAL STUDIES OF SERUM ALBUMIN.....	BBCB	5R01 GM21164-02	32,943
CURTHOYS, NORMAN P.....	CHARACTERIZATION OF RAT KIDNEY GLUTAMINASE ISOENZYMES.....	BIO	5R01 AM16651-03	36,886
CYPRESS, RAYMOND H.....	IMMUNITY TO A PARASITIC NEMATODE.....	TMP	2R01 AI10490-04A1	49,889
DANISHEFSKY, SAMUEL J.....	SYNTHESIS OF ANTITUMOR NATURAL PRODUCTS.....	MCHA	5R01 CA12107-11	97,392
DE GROOT, WILLIAM C.....	NERVOUS CONTROL OF URINARY BLADDER AND LARGE BOWEL.....	NEUB	5R01 NS07923-08	54,567
DOUGLAS, BODIE E.....	STUDIES OF OPTICALLY ACTIVE COORDINATION COMPOUNDS.....	BBCA	5R01 GM10829-17	68,031
DOWD, PAUL.....	MODEL STUDIES OF VITAMIN B12.....	MCHB	3R01 GM19906-01S1	2,476
EDMONDS, MARY P.....	HOMOPOLYNUCLEOTIDE SEQUENCES IN MAMMALIAN CELLS.....	MBY	5R01 GM18881-10	58,789
ERTEL, ROBERT J.....	MYOCARDIAL CELLS AUTONOMIC AND RHYTHMIC MECHANISMS.....	CVA	5R01 HL14832-03	29,882
FEINGOLD, DAVID S.....	STUDIES ON UDP GLUCOSE DEHYDROGENASE.....	BIO	5R01 AM15332-04	43,280
FEINGOLD, DAVID S.....	5-EPIMERIZATION IN MUCOPOLYSACCHARIDE SYNTHESIS.....	PC	1R01 AM18160-01	54,348
FIELD, JAMES B.....	EFFECTS OF TSH ON THYROID CARBOHYDRATE METABOLISM.....	END	5R01 AM06865-13	98,741
FIELD, JAMES B.....	FACTORS INVOLVED IN INSULIN HOMEOSTASIS.....	MET	5R01 AM12974-06	23,137
FISHER, BERNARD.....	BIOLOGICAL EFFECTS OF AUXILIARY LIVER TRANSPLANTS.....	SGYB	5R01 AM13228-07	57,385
FISHER, BERNARD.....	SURGICAL MANAGEMENT OF THE REGIONAL LYMPH NODE IN CANCER.....	SGYA	5R01 CA12102-05	51,190
FISHER, BERNARD.....	ROLE OF REGIONAL LYMPH NODES IN CANCER SURGERY.....	SGYA	5R01 CA13289-03	74,888
FISHER, BERNARD.....	STUDY OF EFFECT OF REMOVAL OF PRIMARY TUMORS.....	SGYB	5R01 CA14972-02	59,886
FLETCHER, RONALD D.....	ADHESIVE STRENGTH BETWEEN CELLS AND INANIMATE MATERIALS.....	DEN	1R01 DE03983-01	49,914
FORREST, EDWARD J.....	INTERDISCIPLINARY STUDIES IN CLEFT PALATE.....	SSS	2P01 DE01697-13A1	133,583
FORREST, EDWARD J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05338-14	39,714
FRANZEN, JAMES S.....	LIGAND BINDING TO ALLOSTERIC ENZYMES.....	BBCA	5R01 GM19649-02	45,780
FRIZZELL, RAYMOND A.....	ION TRANSPORT BY MAMMALIAN COLON, IN VITRO.....	PHY	1R01 AM18199-01	18,612
FUCHS, FRANKLIN.....	ANALYSIS OF CELLULAR CALCIUM COMPARTMENTS IN MUSCLE.....	PHY	2R01 AM10551-10	34,394
GAIK, GERALDINE C.....	QUAIL CELL GRAFTS AND THE CHICK TRIGEMINAL GANGLION.....	NEUB	1R23 DE04135-01	7,500
GAY, VERNON L.....	PHYSIOLOGIC SIGNIFICANCE OF LRF IN REPRODUCTION.....	REB	5R01 HD06664-03	38,636
GILBERTSON, JOHN R.....	BIOCHEMISTRY OF LIPIDS IN GROWING NORMAL TISSUES.....	PC	5R01 AM16837-02	23,578
GILBERTSON, JOHN R.....	ROLE OF LIPIDS IN CANCERGENESIS.....	MET	5R01 CA14914-02	31,680
GILL, THOMAS J, III.....	CHEMICAL GENETIC AND CELLULAR ASPECTS OF IMMUNOGENICITY.....	ALY	9R01 CA18659-05A1	57,742
GILL, THOMAS J, III.....	MATERNAL-FETAL INTERACTIONS AND THE IMMUNE RESPONSE.....	IMB	1R01 HD08662-01	85,081
GLEW, ROBERT H.....	GAUCHER'S DISEASE—ENZYMOLGY AND APPROACH TO THERAPY.....	PC	5R01 AM17465-02	30,635
GLEW, ROBERT H.....	BIOSYNTHESIS AND FUNCTION OF MITOCHONDRIAL GLYCOPROTEINS.....	PC	2R01 GM19197-04	42,479
GOLDSTEIN, E BRUCE.....	VISUAL ADAPTATION: PERIPHERAL AND CENTRAL MECHANISMS.....	VISB	2R01 EY00135-04	45,236
GRENVIK, AKE N.....	NORMALIZING LOW PACO2 TO IMPROVE TISSUE OXYGENATION.....	CVA	1R01 HL17595-01	50,084
GRIECO, PAUL A.....	TUMOR INHIBITORS; SYNTHESIS OF VERNOLEPIN.....	MCHA	5R01 CA13689-03	26,552
GRIFFIN, HERSCHEL E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05451-14	70,335
HEATH, EDWARD C.....	CHEMISTRY AND METABOLISM OF POLYSACCHARIDES.....	MBC	5R01 AM15684-04	129,645
HENDRIX, ROGER W.....	ASSEMBLY AND STRUCTURE OF BACTERIOPHAGE LAMBDA HEADS.....	PC	1R01 AI12227-01	45,456
HO, CHIEN.....	NMR STUDIES OF BIOLOGICAL MEMBRANES.....	BBCB	2R01 GM18698-04	83,223
HO, CHIEN.....	PHYSICAL-CHEMICAL STUDIES OF HEMOGLOBINS.....	BBCB	5R01 HL10383-09	74,678
HO, MONTO.....	LATENCY AND REACTIVATION OF CYTOMEGALOVIRUS INFECTION.....	VR	5R01 AI11798-02	33,820
HOFFEE, PATRICIA A.....	FUNCTION AND MECHANISM OF ACTION OF DR5P ALDOLASE.....	BIO	5R01 AM12152-08	39,197
HOFMANN, KLAUS.....	RECEPTORS, ANTAGONISTS, AND MODE OF ACTION OF ACTH.....	PC	5R01 AM01128-19	187,499
HOPPER, SARAH P.....	RIBONUCLEOTIDE REDUCTION IN MAMMALIAN CELLS.....	BIO	5R01 GM20759-02	32,863



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
HOWELL, JOHN N.	SIALIC ACIDS IN MUSCLE MEMBRANE FUNCTION	PHY	2R01 AM15533-04	31,735
IHLER, GARRET M.	ENZYME-LOADING OF RED BLOOD CELLS	HEM	5R01 CA16003-02	61,376
IHLER, GARRET M.	ROLE OF DNA IN DNA, RNA AND PROTEIN SYNTHESIS	PC	5R01 GM20813-02	35,143
IPPEN-IHLER, KARIN A.	THE GENETICS OF PLASMID TRANSFER AND REPLICATION	MBG	2R01 AI10768-04	49,619
JACOBSON, LEWIS A.	REGULATION OF PROTEIN SYNTHESIS IN GROWTH TRANSITIONS	MBG	5R01 GM20114-02	48,204
JOHNSON, SHARON L.	NUCLEOPHILIC REACTIONS OF DPN AND ITS ANALOGS	BIO	5R01 GM16856-06	42,802
KNOBIL, ERNST	STUDIES ON REPRODUCTIVE PHYSIOLOGY IN THE MACAQUE	REB	5R01 HD03968-15	124,223
KNOBIL, ERNST	CENTER FOR RESEARCH IN PRIMATE REPRODUCTION	HDPR	1P01 HD08610-01	223,962
LAUFFER, MAX A.	BIOPHYSICAL STUDIES ON VIRAL STRUCTURE AND FUNCTION	SSS	2P01 GM10403-13	121,436
LAUFFER, MAX A.	INTERACTIONS OF TOBACCO MOSAIC VIRUS AND ITS COMPONENTS	BBCB	1R01 GM21619-01	71,801
LEE, ROBERT E.	STRUCTURE AND COMPOSITION OF STORED LIPIDS	PTHA	5R01 AM10809-08	50,058
LEONARD, JAMES J.	GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00056-14	529,460
LESTER, ROGER	METABOLISM OF PORPHYRIN, HEME AND BILE PIGMENT	GMA	1R01 AM17847-01	47,131
LESTER, ROGER	NEONATAL NUTRITION: DEVELOPMENT OF FAT ABSORPTION	GMA	5R01 HD08954-02	74,570
LEWIS, JESSICA H.	BLOOD COAGULATION AND HEMORRHAGIC DISEASE	HEM	5R01 HL02254-20	59,872
LIEBERMAN, IRVING	MECHANISMS OF CONTROL OF MAMMALIAN CELL MULTIPLICATION	MBY	5R01 CA06663-14	89,163
LINBERRY, CHARLES G.	SIGNAL DETECTION ANALYSIS OF PAIN PERCEPTION	SSS	1R01 GM22339-01	42,036
LOMBARDI, BENITO	PATHOGENESIS OF EXPERIMENTAL FATTY LIVER	MET	5R01 AM06334-13	50,657
MANCUSO, THOMAS F.	DISABILITY AND MORTALITY AS MEASURES OF CANCER	EDC	5R01 CA13811-03	125,553
MC BURNEY, DONALD H.	A PSYCHOPHYSICAL STUDY OF GUSTATORY ADAPTATION	EXP	5R01 NS07873-08	33,178
MC MANUS, IVY R.	BIOLOGICAL METHYLATION OF CONTRACTILE PROTEINS	PC	5R01 AM15826-03	37,039
MEIKSIN, ZVI H.	INTRAVASCULAR SOLID STATE THIN-FILM P02 SENSOR	CVB	5R01 HL15886-02	38,298
NAKADA, DAISUKE	CONTROL OF PLASMID GENE EXPRESSION	MBG	1R01 AI12630-01	36,641
NAKADA, DAISUKE	CONTROL OF VIRUS GENE EXPRESSION	GEN	1R01 GM21504-01	46,796
NEMOTO, EDWIN M.	BRAIN POST-ISCHEMIC NO-REFLOW: PATHOLOGY AND THERAPY	NEUB	1R01 NS12150-01	47,068
OVE, PETER	CONTROL OF DNA REPLICATION IN NORMAL AND TUMOR CELLS	ET	5R01 CA11637-05	40,466
OVE, PETER	SERUM FACTOR ON GROWTH OF TUMOR AND NORMAL CELLS	ET	1R01 CA17607-01	40,002
PHILLIPS, BRUCE A.	ROLE OF VIRAL-MODIFIED MEMBRANES IN VIRUS MATURATION	VR	5R01 AI08368-08	37,532
PULSINELLI, PHILIP D.	STRUCTURAL BASIS OF REGULATORY FUNCTION IN HEMOGLOBIN	BBCB	1R01 AM18065-01	49,496
RABIN, BRUCE S.	IMMUNOLOGIC STUDY OF EXPERIMENTAL ULCERATIVE COLITIS	PTHB	1R01 AI18321-01	36,516
REDGATE, EDWARD S.	NEURAL CONTROL OF ACTH RELEASE	END	2R01 NS04095-11A1	30,129
ROBINSON, ALAN G.	THE PHYSIOLOGY OF NEUROPHYSIN SECRETION	END	5R01 AM16166-02	26,506
ROSENBERG, JEROME L.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07084-10	58,333
ROSINSKI, RICHARD R.	THE DEVELOPMENT OF SPACE PERCEPTION IN CHILDREN	EXP	5R01 HD07307-03	18,442
RYAN, GORDON A.	DNA SYNTHESIS AND ANTITUMOR DRUGS	ET	5R01 CA15616-02	26,845
RYAN, GORDON A.	PROTEINS INVOLVED IN DNA REPLICATION	GEN	5R01 GM20485-02	64,514
SABEAN, DAVID W.	POPULATION AND KINSHIP IN NECKARHAUSEN 1500-1870	POP	2R01 HD07914-02	61,607
SAFAR, PETER	TREATMENT OF POST-ISCHEMIC-ANOXIC ENCEPHALOPATHY	NEUB	1R01 NS10974-01A3	70,213
SALVIN, SAMUEL B.	TUBERCULIN HYPERSENSITIVITY AND CELLULAR IMMUNITY	BM	5R22 AI08528-08	75,046
SALVIN, SAMUEL B.	IMMUNOLOGIC ENHANCEMENT: MECHANISM AND REGULATION	IMB	5R01 AI11945-02	47,235
SAX, MARTIN	BIOCHEMICAL MONO- AND POLY-PHOSPHATE CRYSTAL STRUCTURES	BBCA	5R01 NS09178-11	53,180
SCHIMMEL, RICHARD J.	ROLE OF MICROTUBULES AND CALCIUM IN FFA MOBILIZATION	CBY	5R01 AM15466-03	27,441
SCHUBERT, JACK	TOXIC METAL SYNERGISM AND MIXED CHELATE THERAPY	TOX	5R01 ES00963-02	38,954
SCHULTZ, STANLEY G.	ION TRANSPORT BY MAMMALIAN SMALL INTESTINE	PHY	5R01 AM16275-03	81,755
SHARMA, RABINDERK.	EXPECTED FAMILY SIZE OF HIGH SCHOOL STUDENTS	POP	1R01 HD08808-01	20,637
STOLC, VIKTOR	ENDOCRINE FACTORS IN NORMAL AND LEUKEMIC LEUKOCYTES	END	2R01 CA13418-04	26,251
STRAUB, DAREL K.	STUDY OF BONDING IN IRON PORPHYRINS	BBCB	5R01 AM16995-02	41,723
TOMKO, DAVID L.	QUANTITATION OF NEURAL ACTIVITY IN VESTIBULAR NUCLEI	CMS	1R01 NS12308-01	31,146
TROY, WILLIAM C.	OSCILLATORY PHENOMENA IN NERVE CONDUCTION EQUATIONS	COM	1R01 NS12457-01	4,650
WATSON, JOSEPH A.	STUDY OF UPPER RESPIRATORY TRACT CLEARANCE	CVA	5R01 ES00421-11	49,030
WERNER, GERHARD	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05416-14	219,030
WIDNELL, CHRISTOPHER C.	PLASMA MEMBRANE STRUCTURE, FUNCTION AND BIOGENESIS	MBY	5R01 GM17724-05	22,932
WOOD, DAVID C.	BIOCHEMICAL CHARACTERIZATION OF HABITUATION	NEUB	5R01 NS09733-05	35,453
YOUNGNER, JULIUS S.	STUDIES OF CELLULAR RESISTANCE TO VIRUS INFECTIONS	VR	2R01 AI06264-11	121,076
ORGANIZATION TOTAL	125	7,473,646		
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 15240</b>				
DE RUBERTIS, FREDERICK R.	CYCLOC AMP IN CARCINOMA OF THE COLON	SRC	1R26 CA16908-01	21,385
ORGANIZATION TOTAL	1	21,385		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
<b>UNIVERSITY PARK</b>				
<b>PENNSYLVANIA STATE UNIVERSITY</b>	<b>ZIP CODE 16802</b>			
AMANN, RUPERT P.	SEPARATION AND CULTURE OF EPIDIDYMAL EPITHELIAL CELLS	REB	5R01 HD07244-02	52,494
ARNETT, DAVID W.	PROTOTYPE MODEL OF THE LATERAL GENICULATE	NEUA	1R01 NS12380-01	21,098
ARONSON, NATHAN N, JR.	NORMAL AND PATHOLOGICAL LYSOSOMAL METABOLISM	MBY	2R01 AM15465-04	59,265
BAKER, PAUL T.	MIGRATION AND POPULATION BIOLOGY IN SOUTHERN PERU	POP	1R01 HD09182-01	50,457
BARRON, GEORGE P.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07082-10	55,325
BENKOVIC, STEPHEN J.	ANOMERIC SPECIFICITY IN GLYCOLYTIC METABOLISM	BIO	5R01 AM16464-03	38,239
BENKOVIC, STEPHEN J.	PHOSPHATE ACTIVATION MECHANISMS	MCHA	5R01 GM13306-10	58,267
BRENCHLEY, JEAN E.	CHARACTERIZATION OF T-RNA MATURATION MUTANTS	MCB	2R01 GM19423-04	54,767
BUSKIRK, ELSWORTH R.	OBESITY AND PHYSIOLOGICAL RESPONSE TO ENVIRONMENT	AFY	5R01 AM08311-11	79,007
BUSS, EDWARD G.	INFLUENCE OF A MUTANT GENE ON RIBOFLAVIN METABOLISM	GEN	5R01 GM07830-15	44,846
CEGLOWSKI, WALTER S.	LEUKEMOGENESIS AND CELLULAR IMMUNITY	PTHB	3R01 CA15643-01S1	1,194
CEGLOWSKI, WALTER S.	LEUKEMOGENESIS AND CELLULAR IMMUNITY	PTHB	5R01 CA15643-02	34,394
DAVIDS, NORMAN	ANALYSIS OF STRESS IN PULSATILE DYNAMICS	CVA	5R01 HL11289-09	42,100
DEERING, REGINALD A.	DNA REPAIR IN SLIME MOLD	RAD	3R01 GM16620-06S1	6,387
FAHNSTOCK, STEPHEN R.	DEFECTIVE PROTEIN SYNTHESIS BY MODIFIED RIBOSOMES	MBY	5R01 GM21080-02	36,985
HAMILTON, GORDON A.	A MECHANISTIC STUDY OF SOME O2 OXIDOREDUCTASES	PC	5R01 AM13448-07	55,640
HAMILTON, GORDON A.	REAGENTS FOR SYNTHESIZING CARCINOGENIC ARENE OXIDES	MCHA	1R01 CA17717-01	50,965
HAMMERSTEDT, ROY H.	THE ROLE OF THE EPIDIDYMIS IN SPERMATOOA MATURATION	REB	2R01 HD05859-05	68,594
HARTZELL, CHARLES R.	STRUCTURAL ELUCIDATION OF HEART CYTOCHROME C OXIDASE	BBCB	1R01 HL17559-01A1	33,316
HIBBARD, EMERSON	VISUAL RESTORATION	VISB	5R01 EY01071-03	31,352
JORDAN, JOSEPH	ELECTRON TRANSFER MECHANISMS AND HEMOPROTEIN MODELS	MCHB	5R01 HL02342-19	50,759
JOYS, TERENCE M.	BACTERIAL FLAGELLA: STRUCTURE, SPECIFICITY AND CONTROL	MCB	5R01 AI12470-02	40,568
KARAKAWA, WALTER W.	ROLE OF SURFACE ANTIGENS IN STAPHYLOCOCCAL INFECTIONS	ALY	5R01 AI11598-02	49,972
KIRCHNER, ELIZABETH P.	DEVELOPING MEASURES OF PARENTHOOD MOTIVATION	POP	2R01 HD06258-02A1	42,502
MARTIN, ROY J.	METABOLIC REGULATION OF GROWTH AND DEVELOPMENT	NTN	5R01 HD07090-03	54,478
MC CARL, RICHARD L.	EFFECT OF AGING ON BEATING HEART CELLS IN CULTURE	MET	5R01 HL10018-08	45,150
MUELLER, WERNER J.	MECHANISMS OF BONE RESORPTION AND ACCRETION IN VIVO	GMB	5R01 AM04362-14	60,135
NOTTER, ROBERT H.	INTERFACIAL PHENOMENA IN RESPIRATION	YIP	1R23 HL17120-01A1	42,041
OLOFSON, ROY A.	NEW METHODS OF PEPTIDE SYNTHESIS	MCHA	5R01 GM13980-11	59,920
PATTON, STUART	STRUCTURE AND SYNTHESIS OF MILK LIPIDS	MET	5R01 HL03632-17	56,681
PERSON, STANLEY	THE MECHANISM OF VIRUS INDUCED CELL FUSION	VR	5R01 AI11513-02	50,324
PHILLIPS, ALLEN T.	COVALENT MODIFICATIONS REGULATING ENZYME FUNCTION	PC	2R01 AM13198-07	43,839
RAVIZZA, RICHARD J.	BEHAVIORAL ANALYSIS OF CENTRAL HEARING MECHANISMS	CMS	5R01 NS11554-02	22,675
RHOADES, RODNEY A.	LACTATE METABOLISM IN THE LUNG	CVA	5R01 HL16528-02	38,183
SCHWEIN, RICHARD D.	STUDY OF AIRBORNE ALLERGENS	SSS	5R01 AI11256-02	42,985
SCHRAER, HARALD	HORMONES, BONE CELL INTERACTIONS AND BONE MINERALIZATION	GMB	2R01 DE01764-13	72,492
SCHRAER, ROSEMARY S.	CARBONIC ANHYDRASE, CALCIUM METABOLISM AND DDT	TOX	5R01 AM17217-02	54,407
SHAMMA, MAURICE	ISOLATION AND SYNTHESIS OF ANTICANCER DRUGS	MCHB	2R01 CA11450-05	54,867
TODD, PAUL W.	CELLULAR STUDIES RELATED TO HIGH LET RADIOTHERAPY	RAD	1R01 CA17536-01	49,273
UNDERWOOD, BARBARA A.	VITAMIN A: FORM AND DISTRIBUTION IN HEPATIC CELL TYPES	NTN	5R01 AM16578-02	32,175
VILLAFRANCA, JOSEPH J.	CONCAVALIN A-SACCHARIDE STRUCTURAL STUDIES	MCHB	5R01 CA16661-02	24,123
WARME, PAUL K.	ACTIVITY OF CYTOCHROME ANALOGS IN HEART MITOCHONDRIA	BIO	1R01 GM20742-01A1	36,374
ORGANIZATION TOTAL	42	1,898,615		
<b>VILLANOVA</b>				
<b>VILLANOVA UNIVERSITY</b>	<b>ZIP CODE 19085</b>			
WARD, INGEBOURG L.	EFFECTS OF PREPUBERAL STRESS ON ADULT SEXUAL BEHAVIOR	EXP	3R01 HD04688-05S1	10,138
WARD, INGEBOURG L.	EFFECTS OF PREPUBERAL STRESS ON ADULT SEXUAL BEHAVIOR	EXP	2R01 HD04688-06	40,507
ORGANIZATION TOTAL	2	50,645		
<b>WILKES-BARRE</b>				
<b>LUZERNE COUNTY MEDICAL SOCIETY</b>	<b>ZIP CODE 18701</b>			
SMITH, HAROLD	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	5P01 CA16067-02	74,785
ORGANIZATION TOTAL	1	74,785		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>				
STATE TOTAL	848	75,901,453		
<b>RHODE ISLAND</b>				
<b>KINGSTON</b>				
<b>GORDON RESEARCH CONFERENCES</b>	<b>ZIP CODE 02881</b>			
CLEMETS, JOHN A.	CONFERENCE ON NONVENTILATORY FUNCTIONS OF THE LUNGS	NSS	1R13 HL18726-01	7,500
MORGAN, HOWARD E.	GORDON RESEARCH CONF. ON SKELETAL AND CARDIAC MUSCLE	CVB	1R13 GM22316-01	5,000
NEMETHY, GEORGE	GORDON CONFERENCE ON PROTEINS	BBCB	1R13 GM22335-01	5,000
PITELKA, DOROTHY R.	CONFERENCE ON BIOLOGY OF MAMMARY TISSUE & MILK	NSS	1R13 CA17940-01	4,725
ORGANIZATION TOTAL	4	22,225		
<b>UNIVERSITY OF RHODE ISLAND</b>	<b>ZIP CODE 02881</b>			
BELL, ROBERT G.	ANTICOAGULANTS AND METABOLISM OF VITAMIN K	HEM	2R01 HL14847-04	39,060
BROWN, PHYLLIS R.	HPLC STUDY OF BLOOD NUCLEOTIDES AND NUCLEOSIDES	MCHB	1R01 CA17603-01	53,990
DAIN, JOEL A.	THE ENZYMIC SYNTHESIS OF GANGLIOSIDE DURING DEVELOPMENT	NEUB	2R01 NS05104-10	26,592
FULLER, GEORGE C.	COLLAGEN SYNTHESIS IN CONNECTIVE TISSUE DISEASE	MBY	5R01 AM16063-02	31,863
LAUX, DAVID C.	TUMOR-MEDIATED SUPPRESSION OF IMMUNE REACTIVITY	IMB	1R01 CA16704-01	42,380
RAPP, FRED.	GORDON RESEARCH CONFERENCE ON CANCER	PTHB	1R13 CA18395-01	6,000
TREMBLAY, GEORGE C.	PYRIMIDINE METABOLISM IN TISSUES OF THE RAT AND HUMAN	BIO	5R01 CA17131-08	38,276
TURCOTTE, JOSEPH G.	CYTOTOXIC AGENTS AFFECTING CELL MEMBRANE BIOGENESIS	MCHA	5R01 CA15898-02	33,681
TURCOTTE, JOSEPH G.	SYNTHESIS OF RENIN INHIBITORS AND ANALOG PHOSPHATIDES	MCHA	3R01 HL13587-03S2	4,632
TURCOTTE, JOSEPH G.	SYNTHESIS OF RENIN INHIBITORS AND ANALOG PHOSPHATIDES	MCHA	2R01 HL13587-04	39,139
TURCOTTE, JOSEPH G.	SYNTHESIS OF PHOSPHOLIPID LUNG SURFACTANTS	MCHA	5R01 HL16207-02	29,911
ORGANIZATION TOTAL	11	345,524		
<b>PAWTUCKET</b>				
<b>MEMORIAL HOSPITAL</b>	<b>ZIP CODE 02860</b>			
MASON, REGINALD G. JR.	BLOOD PLATELETS: MEMBRANES, AGGREGATION AND ADHESION	HEM	7R01 HL18843-01	29,562
STEINER, MANFRED	STUDIES ON ERYTHROLEUKEMIA AND SIDEROBLASTIC ANEMIA	HEM	5R01 AM17327-02	31,744
ORGANIZATION TOTAL	2	61,306		
<b>PROVIDENCE</b>				
<b>BROWN UNIVERSITY</b>	<b>ZIP CODE 02912</b>			
BRAY, PHILIP J.	NUCLEAR RESONANCE STUDIES OF MOLECULAR SYSTEMS	BBCB	5R01 GM19018-11	71,184
CANE, DAVID E.	RESONANCE ANALYSES OF ISOPRENOID BIOSYNTHESIS	MCHA	1R01 GM22172-01	48,093
CHASE, HERMAN B.	DEVELOPMENTAL GENETICS OF ANOPHTHALMIA	GEN	1R01 EY01274-01	36,486
COLEMAN, JOHN R.	CONTROL OF CELL DIFFERENTIATION IN CULTURE	MBY	5R01 HD00047-11	44,359
CSERR, HELEN F.	SYMPOSIUM ON CEREBROSPINAL FLUID AND THE BRAIN	NSS	1R13 CA16926-01	18,991
CSERR, HELEN F.	THE FUNCTIONAL SIGNIFICANCE OF CEREBROSPINAL FLUID	PHY	5R01 NS11050-03	27,603
CZECH, MICHAEL P.	INSULIN ACTION ON THE FAT CELL SURFACE MEMBRANE	MET	1R01 AM17893-01	49,952
CZECH, MICHAEL P.	INSULIN INSENSITIVITY IN DIABETES AND OBESITY	MET	1R01 AM18686-01	23,774
DAHLBERG, ALBERT E.	POLYSOMES AND SUBUNITS-STRUCTURE-FUNCTION RELATIONSHIPS	PC	5R01 GM19756-03	44,635
EBNER, FORD F.	ANATOMICAL ANALYSES OF CORTICAL SYSTEMS	NEUA	5R01 NS06551-10	36,930
ELMAS, PETER D.	DEVELOPMENTAL STUDIES OF SPEECH PERCEPTION	EXP	5R01 HD05331-05	42,022
FAIN, JOHN N.	HORMONAL CONTROL OF LIPID METABOLISM	MET	5R01 AM10149-10	43,472
FAIN, JOHN N.	ORAL ANTIDIABETIC DRUGS AND CELLULAR METABOLISM	MET	5R01 AM14648-05	44,046
FAUSTO-STERLING, ANNE	EARLY EMBRYOGENESIS IN DROSOPHILA MELANOGASTER	GEN	1R01 HD07918-01A1	35,034
FAUSTO, NELSON	POLYAMINES AND RNA SYNTHESIS DURING LIVER REGENERATION	PTHB	2R01 AM14706-04	52,311
GALLETI, PIERRE M.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05664-08	97,911
GERBI, SUSAN A.	FINE STRUCTURE OF RIBOSOMAL RNA	CBY	5R01 GM20261-02	28,915
GIBBS, JULIAN H.	STATISTICAL MECHANICS OF BIOLOGICAL MACROMOLECULES	BBCB	5R01 GM10906-14	52,907
GOLDSTEIN, LEON	RENAL AMMONIA METABOLISM	GMB	2R01 AM12443-07	34,352
GOSS, RICHARD J.	COMPENSATORY PULMONARY HYPERTROPHY	CVA	5R01 HL16336-02	32,193



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>RHODE ISLAND—Continued</b>				
HODOSH, MILTON	THE POROUS V.C.—P.M.M.A. REPLICA IMPLANT	DEN	1R01 DE04045-01	48,081
JACKSON, DONALD C.	RESPIRATORY CONTROL AND BODY TEMPERATURE	AFY	5R01 HL16653-02	24,188
KIDWELL, JAMES F.	ANALYSIS OF A MUTATOR GENE IN D. MELANOGASTER	GEN	5R01 GM20103-02	26,015
KLING, JULIUS W.	SENSORY PROPERTIES OF ELECTRICAL BRAIN STIMULATION	NP	1R01 NS12290-01	37,583
KNOPF, PAUL M.	PATHWAYS LEADING TO EXPRESSION OF IMMUNOGLOBULIN	ALY	2R01 AI11169-02	44,782
LANDY, ARTHUR	SINDBIS VIRUS GROWTH AND ALTERATION OF CELL MEMBRANES	VR	5R01 AI11263-03	36,528
LANDY, ARTHUR	CONTROL OF SYNTHESIS AND FUNCTION OF NUCLEIC ACID	PC	5R01 CA11208-07	69,542
LEDUC, ELIZABETH H.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07085-10	38,372
LEGATOR, MARVIN S.	MUTAGENIC POTENTIAL OF ENVIRONMENTAL AGENTS	GEN	1R01 ES01111-01	78,990
LIEBERMAN, PHILIP	DEVELOPMENTAL STUDIES OF SPEECH PRODUCTION	DBR	1R01 HD09197-01	43,612
LUSK, JOAN E.	MEMBRANE PERMEABILITY IN COLICIN-TREATED CELLS	MBG	5R01 GM20171-03	25,714
MARSHALL, JEAN M.	PROPERTIES OF SMOOTH MUSCLE	PHY	5R01 HD06963-10	49,345
MC ILWAIN, JAMES T.	CORTICAL CONTROL OF SUPERIOR COLLICULUS	NEUB	5R01 NS09997-03	22,934
MONTEIRO, LOIS A.	SOCIAL EVENTS AND ATTITUDE CHANGE, ABORTION 1971-74	POP	1R01 HD09258-01	8,889
NEWMAN, LUCILE F.	A CONFERENCE ON THE FIRST CHILD AND FAMILY FORMATION	NSS	1R13 HD09941-01	13,763
PALATT, PAUL J.	MATHEMATICAL MODELING OF VISCOUS FLOW PHENOMENA	COM	5R01 AM17094-02	8,540
PARKER, KATHLYN A.	SYNTHESIS OF CROTEPOXIDE	MCHA	5R01 CA16524-02	25,119
PARKS, ROBERT E. JR.	COENZYMES CONTAINING PURINE AND PYRIMIDINE ANALOGS	PHRA	5R01 CA07340-12	93,882
PIERREL-SORRENTINO, ROSEMARY	LOUDNESS SCALING	CMS	1R01 NS12349-01	37,682
PRUSCH, ROBERT D.	ACTIVE AMMONIUM TRANSPORT	PHY	1R01 NI17957-01	16,443
QUEVEDO, WALTER C. JR.	RESPONSE OF PIGMENT CELLS TO X- AND UV-RADIATIONS	RAD	5R01 CA06097-14	41,500
RIEGER, PHILIP H.	AQUEOUS SOLUTION STUDIES OF ARSENATES AND VANADATES	MCHB	5R01 ES00894-02	32,454
RIGGS, LORRIN A.	HUMAN VISUAL RESPONSES IN RETINA AND CORTEX	VIS	5R01 EY00744-04	39,726
ROTMAN, M BORIS	RECESSIVE GENES CONTROLLING IMMUNOCOMPETENCE	IMB	1R01 HD12626-01	59,926
ROTMAN, M BORIS	BIOCHEMICAL COMPONENTS OF A TRANSPORT SYSTEM	BIO	5R01 AM11194-08	39,743
SCHRIER, ALLAN M.	SUPPORT FOR PRIMATE LABORATORY NEWSLETTER	PME	5R01 RR00419-08	14,601
SHEPP, BRYAN E.	DEVELOPMENTAL STUDIES IN LEARNING AND ATTENTION	EXP	2R01 HD04320-07	54,023
SIGUELAND, EINAR R.	EXPERIENTIAL DETERMINANTS OF EXPLORATION IN PREMATURES	DBR	2R01 HD03386-07	88,818
STEIM, JOSEPH M.	SCANNING CALORIMETRY AND DILATOMETRY OF BIOMEMBRANES	BBCB	5R01 GM20545-03	41,355
WOOTEN, BILL R.	RETINAL MOSAICISM IN FEMALES CARRYING COLOR BLINDNESS	VISB	1R01 EY01512-01	68,865
ORGANIZATION TOTAL	50	2,096,185		
<b>MIRIAM HOSPITAL ZIP CODE 02906</b>				
HOPKINS, ROBERT W.	STUDIES OF CLINICAL AND EXPERIMENTAL SHOCK	SGYB	5R01 GM19930-04	54,921
LEGATOR, MARVIN S.	DETERMINATION OF GENETIC REPAIR IN HUMAN SUBJECTS	GEN	7R01 GM22801-01	32,591
WELTMAN, JOEL K.	ENZYMATIC TESTS FOR CARCINOEMBRYONIC ANTIGEN	SRC	2R26 CA15261-03	38,484
ORGANIZATION TOTAL	3	125,996		
<b>RHODE ISLAND HOSPITAL ZIP CODE 02902</b>				
LEONE, LOUIS A.	COOPERATIVE STUDY OF ACUTE LEUKEMIA	CCI	2R10 CA08025-11	90,568
MENARD, RAYMOND H.	IMPAIRMENT OF STEROID SYNTHESIS BY SPIRONOLACTONE	END	1R01 AM18365-01	42,138
SCHWARTZ, ROBERT	CARBOHYDRATE METABOLISM IN THE NEWBORN	MET	5R01 HD08977-02	51,108
ORGANIZATION TOTAL	3	183,814		
<b>ROGER WILLIAMS GENERAL HOSPITAL ZIP CODE 02908</b>				
CALABRESI, PAUL	SUPPORT FOR CLINICAL CANCER RESEARCH CENTER	CAP	5P02 CA13943-03	823,825
CALABRESI, PAUL	DERMATOPHARMACOLOGIC STUDIES IN PSORIASIS	PTR	5R01 GM21535-02	49,750
CALABRESI, PAUL	GENERAL RESEARCH SUPPORT GRANT	NSS	1S01 RR05765-01	117,630
CHU, MING Y.	DRUG DEVELOPMENT—HUMAN LEUKEMIC CELL GROWTH FACTORS	SSS	5R01 CA15909-02	36,872
CUMMINGS, FRANCIS J.	EASTERN COOPERATIVE ONCOLOGY GROUP	CCI	2R10 CA15947-02	33,346
HEPPNER, GLORIA H.	IMMUNE REACTIVITY AND MAMMARY NEOPLASIA	IMB	1R01 CA17074-01	71,486
KALDERON, ALBERT E.	CANCER OF THE THYROID AND CYCLIC AMP	END	1R01 CA14379-01A1	32,731
KAPLAN, STEPHEN R.	COOPERATIVE STUDY OF NEW GYNECOLOGIC CANCER PATIENTS	CCI	5R10 CA12481-05	79,997
ORGANIZATION TOTAL	8	1,245,637		
STATE TOTAL	81	4,080,687		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>SOUTH CAROLINA</b>				
<b>CHARLESTON</b>				
<b>MEDICAL UNIVERSITY OF SOUTH CAROLINA      ZIP CODE 29401</b>				
BAGGETT, BILLY.....	NUCLEOTIDE METABOLISM IN THE DECIDUAL UTERUS.....	REB	2R01 HD06362-04	59,283
BANK, HARVEY L.....	CRYOBIOLOGY OF ISOLATED ISLETS OF LANGERHANS.....	PTHA	1R01 AM18115-01A1	49,000
BROSTOFF, STEVEN W.....	THE ROLE OF MYELIN PROTEINS IN EXPERIMENTAL NEURITIS.....	NEUB	5R01 NS11867-02	48,132
BUSE, MARIA G.....	FACTORS THAT MODIFY INSULIN ACTION.....	MET	5R01 AM02001-18	58,826
COLES, WILLIAM H.....	ENDOTHELIAL MORPHOLOGY, ULTRASTRUCTURE AND FUNCTION.....	VISA	1R01 EY01439-01	33,411
COLWELL, JOHN A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05420-14	163,838
EURENIUS, KARL.....	GRANULOCYTES AND THE INFECTED BURN WOUND.....	SGYB	1R01 GM1758-01	24,917
FITTS, CHARLES T.....	LYMPHOCYTE DEPLETION FOR IMMUNOSUPPRESSION.....	SGYA	5R01 AI10035-05	54,520
FUDENBERG, H HUGH.....	GENETIC CHILDHOOD DISEASES AND AGING.....	HDMC	1P01 HD09938-01	227,557
GAFFNEY, THOMAS E.....	MULTIDISCIPLINARY RESEARCH IN PHARMACOLOGY/TOXICOLOGY.....	PTR	3P11 GM20387-02S1	41,187
GAFFNEY, THOMAS E.....	MULTIDISCIPLINARY RESEARCH IN PHARMACOLOGY/TOXICOLOGY.....	SSS	2P11 GM20387-03	426,458
GALE, GLEN R.....	PHARMACOLOGY OF DERIVATIVES OF NATURAL COMPOUNDS.....	ET	3R01 CA11811-09S1	9,170
GALE, GLEN R.....	PLATINUM COMPOUNDS IN CHEMOTHERAPY OF L1210 LEUKEMIA.....	ET	2R01 CA11811-10A1	31,105
HARLEY, RUSSELL A.....	PROGRESSIVE FIBROSIS OF LUNGS.....	PTHB	5R01 HL15185-03	40,356
HASKILL, JOHN S.....	ANALYSIS OF THE HOST RESPONSE WITHIN SOLID TUMORS.....	IMB	1R01 CA17694-01	63,000
HEMPLING, HAROLD G.....	PERMEABILITY OF LEUKOCYTE AND NEOPLASTIC CELLS.....	PHY	5R01 CA12956-04	19,691
HYNES, JOHN B.....	SYNTHESIS AND EVALUATION OF NEW FOLATE ANTAGONISTS.....	MCHA	5R01 CA14615-02	40,503
KARAM, JIM D.....	GENETIC CONTROL OF REPLICATION OF PHAGE T4 DNA.....	MBC	2R01 GM18842-04	48,757
LAMAR, CARLOS, JR.....	THE EFFECT OF VAGOTOMY ON HEPATIC REGENERATION.....	GMA	5R01 AM18091-02	13,767
LE ROY, E CARWILE.....	A STUDY OF SCLERODERMA (SYSTEMIC SCLEROSIS).....	GMA	1R01 AM18904-01	60,449
LEDFORD, BARRY E.....	SERUM PROTEIN SYNTHESIS BY MOUSE HEPATOMA CELLS.....	MBY	5R01 CA17037-02	34,976
MARGOLIUS, HARRY S.....	KALLIKREIN-KININ SYSTEM IN HYPERTENSION.....	CVB	1R01 HL17705-01	93,728
MARKWALD, ROGER R.....	MUCOPOLYSACCHARIDE METABOLISM IN CARDIAC ANOMALIES.....	HED	5R01 HL15782-02	29,306
MILLER, RONALD L.....	CONTROL OF COLLAGEN BIOSYNTHESIS AND MATURATION.....	PC	5R01 AM16767-03	30,071
MILLS, JOHN H.....	AUDITORY EFFECTS OF LONG EXPOSURE TO LOW LEVELS OF NOISE.....	CMS	1R01 ES01301-01	58,608
MORGAN, SAMUEL K.....	SOUTHWEST ONCOLOGY GROUP.....	CCI	1R01 CA16388-01	25,967
OGAWA, MAKIO.....	CHEMOTHERAPY OF MYELOMA WITH PLATINUM COMPOUNDS.....	ET	1R01 CA16488-01	35,348
OGAWA, MAKIO.....	CHEMOTHERAPY & GRANULOCYTIC & LEUKEMIC CELLS IN CULTURE.....	ET	1R01 CA17002-01	40,063
ONDO, JEROME G.....	HYPOTHALAMIC-PITUITARY FUNCTION AND MAMMARY NEOPLASIA.....	END	5R01 CA15574-02	23,118
PENNINGTON, RAYMOND C.....	SMALL VESSEL PATHOPHYSIOLOGY IN DIABETES MELLITUS.....	CVB	5R01 HL15811-03	28,182
PEROT, PHANOR L, JR.....	FUNDAMENTAL STUDIES IN SPINAL CORD INJURY.....	NSPA	5P01 NS11066-02	253,884
PEROT, PHANOR L, JR.....	SPINAL CORD INJURY WORKSHOP.....	NSS	3R13 NS11830-01S1	4,982
PITTMAN, FRED E.....	STUDIES OF TISSUE TOXICITY OF ENTAMOEBA HISTOLYTICA.....	TMP	1R01 AI12604-01	51,881
PRITCHARD, JOHN B.....	RENAL HANDLING OF DDA AND ITS IMPLICATIONS.....	PHRA	5R01 ES00974-02	22,763
RITTENBURY, MAX S.....	RETICULOENDOTHELIAL SYSTEM/LYMPHOCYTIC RESPONSE/TRAUMA.....	SGYB	5R01 GM19714-03	68,441
SCHWABE, CHRISTIAN.....	PROTEIN TURNOVER IN DENTAL PULP AND PERIODONTAL TISSUES.....	PC	5R01 DE03470-04	37,400
SPICER, SAMUEL S.....	CELL ULTRASTRUCTURE AND FUNCTION.....	PTHA	2R01 AM10956-09	64,275
SPICER, SAMUEL S.....	MORPHOCHEMICAL STUDIES, LIGHT & ELECTRON MICROSCOPY.....	PTHB	5R01 AM11028-09	44,529
SUDDICK, RICHARD P.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05767-01	17,431
SWANSON, ARNOLD A.....	PROTEOLYSIS IN NORMAL AND SENILE CATARACT LENS.....	VISA	2R01 EY00429-07	39,719
WHEELER, DARRELL D.....	AGING AND MEMBRANE TRANSPORT IN THE NERVOUS SYSTEM.....	NEUA	1R01 NS12292-01	9,787
WISE, WILLIAM C.....	AMINO ACID TRANSPORT IN NORMAL AND NEOPLASTIC CELLS.....	PHY	5R01 CA13529-03	32,460
YOUNG, FRANKLIN A, JR.....	ARTIFICIAL TOOTH ROOTS.....	DEN	2R01 DE03497-03	43,844
ZEMP, JOHN W.....	FOLIC ACID DEFICIENCY AND BRAIN DEVELOPMENT.....	NEUA	5R01 NS09471-03	40,671
ORGANIZATION TOTAL	44	2,645,361		
<b>CLEMSON</b>				
<b>CLEMSON UNIVERSITY      ZIP CODE 29631</b>				
COOKE, FRANCIS W.....	INTERNATIONAL BIOMATERIALS SYMPOSIUM, 1975.....	NSS	1R13 DE04213-01	5,000
MORRELL, MICHAEL L.....	STRESS ANALYSIS OF A LUNG WITH LOBES.....	YIP	1R23 HL18363-01	44,928
WEINSTEIN, ALLAN M.....	A PROSPECTIVE ORTHOPEDIC IMPLANT RECOVERY ANALYSIS.....	AFY	1R01 AM17625-01A1	41,179
WEINSTEIN, ALLAN M.....	FINITE ELEMENT ANALYSIS OF PROSTHETIC TOOTH IMPLANTS.....	DEN	5R23 DE03904-02	9,657
WEINSTEIN, ALLAN M.....	FINITE ELEMENT ANALYSIS OF PROSTHETIC TOOTH IMPLANTS.....	DEN	1R01 DE04221-01	31,338
ZIMMERMAN, JAMES K.....	STUDIES ON PYRUVATE KINASE USING DIRECT GEL SCANNING.....	BBCA	5R01 GM19550-02	34,657
ORGANIZATION TOTAL	6	166,759		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>SOUTH CAROLINA—Continued</b>				
<b>COLUMBIA</b>				
<b>BENEDICT COLLEGE</b>	<b>ZIP CODE 29204</b>			
FINLAY, MARY F.....	POLLUTION ANALYSIS WITH STUDENT PARTICIPATION.....	GRS	3S06 RR08117-01S1	6,360
ORGANIZATION TOTAL	1 6,360			
<b>UNIVERSITY OF SOUTH CAROLINA</b>	<b>ZIP CODE 29208</b>			
AMMA, ELMER L.....	MECHANISM OF DNA INHIBITION BY METAL IONS.....	BBCA	1R01 GM20562-01	24,881
BONNER, OSCAR D.....	WATER STRUCTURE IN SYSTEMS OF BIOLOGICAL IMPORTANCE.....	BBCA	5R01 GM19980-02	24,566
BRYSON, THOMAS A.....	HARRINGTONINE AND RELATED ANTICANCER DRUG SYNTHESIS.....	MCHA	1R01 CA17490-01	43,038
BRYSON, THOMAS A.....	SESQUITERPENE AND ALKALOID ANTICANCER DRUG SYNTHESIS.....	MCHA	1R01 CA18349-01	21,303
DUNLAP, R. BRUCE.....	THE MECHANISM OF ACTION OF THYMIDYLATE SYNTHETASE.....	BIO	2R01 CA12842-04	45,762
ELLIS, PAUL D.....	NMR STUDIES OF FOLATE-ENZYME INTERACTIONS.....	BBCB	5R01 CA15645-02	53,787
FELDER, MICHAEL R.....	MALATE DEHYDROGENASE ISOZYMES IN HEPATOMA.....	SSS	1R01 CA16184-01A1	30,395
FISHER, RONALD R.....	MITOCHONDRIAL PYRIDINE DINUCLEOTIDE TRANSHYDROGENASE.....	BIO	1R01 GM22070-01	46,862
JAMES, ERIC.....	TRANSLATION IN VITRO OF MOLONEY LEUKEMIA VIRUS RNA.....	VR	1R01 CA17830-01	56,423
LEFTON, LESTER A.....	ROLE OF LATERAL INHIBITION IN STUDY OF METACONTRAST.....	VISB	5R01 EY01201-02	14,381
MISHRA, NAWIN C.....	GENETIC EFFECTS OF EXOGENOUS NUCLEIC ACIDS.....	GEN	1R01 GM21520-01	33,583
VODKIN, MICHAEL H.....	PRODUCTS OF THE DOUBLE STRANDED RNA'S OF YEAST.....	GEN	1R01 GM21438-01	20,561
WATABE, NORIMITSU.....	ULTRASTRUCTURAL STUDIES OF CALCIFICATION.....	GMB	5R01 DE03424-04	47,223
ORGANIZATION TOTAL	13 462,765			
<b>ORANGEBURG</b>				
<b>SOUTH CAROLINA STATE COLLEGE</b>	<b>ZIP CODE 29115</b>			
DATTA-GUPTA, NIRMALENDU.....	STUDY OF AIR POLLUTION.....	GRS	5S06 RR08060-04	69,210
ORGANIZATION TOTAL	1 69,210			
<b>SPARTANBURG</b>				
<b>INDIVIDUAL AWARD-HUDSON, MONIE S.</b>	<b>ZIP CODE 29302</b>			
HUDSON, MONIE S.....	TREE SAP EXTRACTS FOR CANCER CHEMOTHERAPY SCREENING.....	MCHB	5R01 CA12359-04	28,250
ORGANIZATION TOTAL	1 28,250			
STATE TOTAL	66 3,378,705			
<b>SOUTH DAKOTA</b>				
<b>BROOKINGS</b>				
<b>SOUTH DAKOTA STATE UNIVERSITY</b>	<b>ZIP CODE 57006</b>			
GRANHOLM, NELS H.....	CELL SURFACE CHANGES DURING VERTEBRATE DEVELOPMENT.....	CBY	1R01 HD06918-01A1	38,693
GRANHOLM, NELS H.....	IMPLANTATION FAILURE IN THE LETHAL YELLOW MOUSE.....	REB	1R01 HD08631-01	33,315
ORGANIZATION TOTAL	2 72,008			
<b>VERMILLION</b>				
<b>UNIVERSITY OF SOUTH DAKOTA</b>	<b>ZIP CODE 57069</b>			
MARSHALL, FINLEY D, JR.....	HOMOCARNOSINE METABOLISM IN BRAIN.....	MET	2R01 NS06137-08A2	23,043
NEUHAUS, OTTO W.....	CONTROL OF HEPATIC BIOSYNTHESIS OF PLASMA PROTEINS.....	PC	2R01 AM11146-08	55,380
WEGNER, KARL H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05421-14	29,293
ORGANIZATION TOTAL	3 107,716			
STATE TOTAL	5 179,724			



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TENNESSEE</b>				
<b>JOHNSON CITY</b>				
<b>EAST TENNESSEE STATE UNIVERSITY</b>	<b>ZIP CODE 37601</b>			
MILHORN, HOWARD T. JR.	QUANTITATIVE STUDIES OF RESPIRATORY CONTROL	CVA	7R01 HL18821-01	16,189
PEARCE, DAVID H.	QUANTITATIVE PULMONARY RESPONSES TO EXERCISE	SRC	7R23 HL18920-01	17,657
ORGANIZATION TOTAL	2 33,846			
<b>KNOXVILLE</b>				
<b>KNOXVILLE COLLEGE</b>	<b>ZIP CODE 37921</b>			
JAMES, JESSE	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	GRS	5S06 RR08055-03	46,374
ORGANIZATION TOTAL	1 46,374			
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE AT KNOXVILLE</b>	<b>ZIP CODE 37916</b>			
BAGBY, ROLAND M.	SMOOTH MUSCLE CELL ORGANIZATION AND (CA20) CONTROL	PHY	1R01 HL18077-01	40,645
BECKER, JEFFREY M.	PEPTIDE TRANSPORT IN MICROORGANISMS	MMC	1R01 GM22087-01	24,017
CHERNOFF, AMOZ I.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05541-10	78,911
DANIEL, JOSEPH C. JR.	ROLE OF UTERINE PROTEINS IN MAMMALIAN EMBRYOGENESIS	HED	5R01 HD06226-03	73,513
FARKAS, WALTER R.	GUANYLATION OF TRNA	BIO	1R01 GM20546-01A1	49,575
FORRESTER, JOHN H.	FLOW CHARACTERISTICS IN SIMULATED ARTERIAL STENOSES	CVB	5R01 HL15564-02	33,149
FUHR, JOSEPH E.	SICKLE CELL ANEMIA AND HEMOGLOBIN SYNTHESIS	HEM	5R01 AM16610-02	46,078
GIRARDI, ANTHONY J.	EXPLORATORY STUDIES IN CANCER RESEARCH	SRC	2P01 CA13561-03	93,470
GREENAWALT, JOHN W.	MITOCHONDRIAL MAO: ROLE IN BIOGENIC AMINE METABOLISM	BIO	7R01 NS12747-01	51,077
JEON, KWANG W.	ENDOSYMBIONTS AS REQUIRED CYTOPLASMIC COMPONENTS	TMP	5R01 GM21224-02	23,774
JONES, JIMMY B.	HEMATOPOIETIC STUDY OF CYCLIC NEUTROPENIA	HEM	5R01 HL15647-03	53,892
KRAUSS, STEPHEN	SOUTHEASTERN CANCER STUDY GROUP	CCI	3R10 CA13237-03S1	14,199
KRAUSS, STEPHEN	COOPERATIVE STUDY OF CANCER	CCI	2R10 CA13237-04	46,696
LANGE, ROBERT D.	CONTROL MECHANISMS OF HUMAN AND NONHUMAN HEMATOPOIESIS	HEM	1R01 AM18314-01	38,563
LANGE, ROBERT D.	IMMUNOASSAY AND CHARACTERIZATION OF ERYTHROPOIETIN	HEM	5R01 HL10567-10	74,973
LONGWORTH, JAMES W.	IMMUNOPROTEINS FROM PLASMA CELL TUMORS	BBCA	5R01 CA15173-02	46,609
LOZZIO, BISMARCK B.	HEREDITARY AGENESIS OF THE THYMUS	IMB	5R01 HD07218-02	24,342
LOZZIO, BISMARCK B.	AN EXPERIMENTAL MODEL FOR HEREDITARY HYDRONEPHROSIS	CVB	3R01 HL13913-06S1	3,899
MACCABE, JEFFREY A.	MECHANISMS IN EMBRYONIC LIMB MORPHOGENESIS	HED	5R01 HD07282-02	31,229
MACHADO, EMILIO A.	ESTABLISHMENT OF A DIAGNOSTIC PATHOLOGY LABORATORY	AR	5P06 RR00874-02	55,765
MC DONALD, TED P.	THROMBOPOIETIN: IMMUNOASSAY AND CHARACTERIZATION	HEM	5R01 HL14637-02	37,828
OLINS, DONALD E.	PHYSICAL PROPERTIES OF ISOLATED NUCLEI AND CHROMOSOMES	MBY	5R01 GM19334-03	33,343
RIGGSBY, WILLIAM S.	INFORMATIONAL RNA IN PLASMA CELL NEOPLASMS (MYELOMAS)	PC	5R01 CA13971-03	17,887
SMITH, HILTON A.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07088-08	33,557
SOLOMON, ALAN	PROTEINS IN MULTIPLE MYELOMA AND RELATED BLOOD DISEASES	ALY	5R01 CA10056-10	96,897
TODD, PEYTON H.	SPEECH ACQUISITION BY A HEARING CHILD OF DEAF PARENTS	DBR	5R01 HD08463-02	29,297
TYNDALL, RICHARD L.	GALLIUM-67 UPTAKE IN ENBRYOGENESIS AND ONCOGENESIS	PTHB	1R01 CA18673-01	44,622
VAN HOOK, WILLIAM A.	AQUEOUS SOLVENT ISOTOPE EFFECTS—PERMANENT GAS SOLUTES	BBCA	5R01 GM19991-03	30,971
WEHRY, EARL L.	INTERACTIONS OF METALS WITH PHOTOEXCITED FLAVINS	BBCA	5R01 GM20805-02	31,064
YANG, TSU-JU T.	ETIOLOGICAL STUDY OF TRANSMISSIBLE VENERAL SARCOMA	PTHB	5R01 CA16063-02	42,246
ORGANIZATION TOTAL	30 1,302,088			
<b>MEMPHIS</b>				
<b>BAPTIST MEMORIAL HOSPITAL</b>	<b>ZIP CODE 38146</b>			
RIGHTSLER, WILTON A.	CULTIVATION STUDIES OF MYCOBACTERIUM LEPRAE	BM	2R22 AI08051-07A1	23,344
ORGANIZATION TOTAL	1 23,344			
<b>MEMPHIS STATE UNIVERSITY</b>	<b>ZIP CODE 38152</b>			
STUDEBAKER, GERALD A.	PAIRED COMPARISON HEARING AID CHARACTERISTIC SELECTION	CMS	1R01 NS12588-01	93,900
ORGANIZATION TOTAL	1 93,900			
<b>ST. JUDE CHILDREN'S RESEARCH HOSPITAL</b>	<b>ZIP CODE 38101</b>			
ADLER, LOUISE T.	IMMUNOGLOBULIN ALLOTYPES: SUPPRESSION AND RELEASE	ALY	1R01 AI13159-01	41,828

Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued

Principal investigator	Project title	IRG	Grant number	Dollars
TENNESSEE—Continued				
AUR, RHOMES J	COMBINATION THERAPY OF CHILDHOOD LEUKEMIA	RAD	2R01 CA13050-04	65,530
BORELLA, LUIS D	IMMUNOCOMPETENT CELLS IN ACUTE LYMPHOCYTIC LEUKEMIA	IMB	2R01 CA12787-04	63,860
FISHMAN, MARVIN	THE ROLE OF MACROPHAGE SUBCLASSES IN TUMOR IMMUNITY	IMB	1R01 CA18672-01	38,866
GANGULY, PANKAJ	STUDY OF PROPERTIES OF PROTEINS IN BLOOD PLATELETS	HEM	5R01 HL15090-04	47,566
GRANOFF, ALLAN	STUDIES ON LUCKE TUMOR ASSOCIATED VIRUSES	VR	5R01 CA07055-13	175,961
HUGHES, WALTER T	CULTIVATION OF PNEUMOCYSTIS CARINII FROM CANCER PATIENTS	TMP	5R01 AI11277-03	31,553
KANG, ELLEN S	REYE'S SYNDROME: STUDIES OF MEMBRANE FUNCTION	BIO	1R01 HD09469-01	47,892
KINGSBURY, DAVID W	MULTIPLICATION OF PARAMYXOVIRUSES	VR	5R01 AI05343-12	63,097
MARTEN, GEORGE W	PSYCHOLOGICAL EFFECTS OF CRANIAL IRRADIATION	RAD	5R01 CA15459-03	46,101
MARTEN, GEORGE W	PSYCHOLOGICAL ADAPTATIONS TO CHILDHOOD LEUKEMIA	CCG	1R18 CA17881-01	63,669
MAUER, ALVIN M	CHILDHOOD CANCER RESEARCH CENTER	CAP	5P02 CA08480-10	1,471,637
MAUER, ALVIN M	A STUDY OF LEUKOKINETICS IN ACUTE LEUKEMIA WITH DFP32	ET	5R01 CA15956-02	87,273
MAUER, ALVIN M	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05584-11	166,093
PORTNER, ALLEN	BIOSYNTHESIS OF PARAMYXOVIRUSES	VR	1R01 AI11949-01	55,165
ROBERTS, BUFORD D	PHARMACOLOGICAL RESPONSE TO ONCOLYTIC DRUGS	ET	2R01 CA12732-04	61,234
SMITH, KIRBY L	TEMPERATURE-SENSITIVE MUTANTS OF MURINE SARCOMA VIRUS	VR	5R01 CA13795-03	28,500
WALKER, WILLIAM S	MACROPHAGE FUNCTIONS IN TUMORIGENESIS	IMB	1R01 CA16652-01	44,389
WEBSTER, ROBERT G	STUDIES ON THE ORIGIN OF PANDEMIC INFLUENZA VIRUSES	VR	2R01 AI08831-07	74,429
YEH, YU-YAN	REGULATION OF KETONE METABOLISM IN NEWBORN RATS	MET	1R01 HD08568-01A1	39,370
ORGANIZATION TOTAL	20	2,714,363		
UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES ZIP CODE 38163				
ARANT, BILLY S, JR	PATTERNS OF FUNCTIONAL MATURATION: THE NEONATAL KIDNEY	GMB	1R01 HD09061-01	37,856
ARNESON, RICHARD M	MEMBRANE LIPIDS IN NEUROBLASTOMA DIFFERENTIATION	MBY	5R01 CA16927-02	43,588
BRADHAM, LAURENCE S	REGULATION OF ADENYLATE CYCLASE	BIO	1R01 NS12122-01	32,678
BRODY, DANIEL A	GENERATOR PROPERTIES OF ISOLATED HEARTS	CVA	5R01 HL01362-23	53,989
BRODY, DANIEL A	CARDIOVASCULAR COMPUTER RESEARCH PROGRAM	HEPA	5P01 HL09495-14	223,224
BROWN, CHARLES R	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05423-14	192,145
BROWN, FOUNTAINE C	CYSTATHIONINE METABOLISM IN BRAIN	MET	5R01 NS04454-12	40,960
BROWN, FOUNTAINE C	CYSTATHIONINE METABOLISM IN BRAIN	MET	2R01 NS04454-13	49,163
CALDWELL, ROBERT W	THE IMPORTANCE OF AMINOSUGARS IN DIGITALIS ACTIVITY	PHRA	1R01 HL17796-01	45,916
CARDOSO, SERGIO S	CIRCADIAN MITOTIC RHYTHM GUIDE FOR ANTIMETABOLITES	ET	2R01 CA11332-04	32,331
CHANG, FREDERIC C	CHEMICAL STUDY OF PLANTS OF PHARMACOLOGICAL INTEREST	MCHB	5R01 CA11507-06	44,524
COX, CLAIR E	NATIONAL STUDY OF CANCER OF THE BLADDER	BP	5R26 CA15934-02	53,827
COX, RAY	DNA REPAIR AND CARCINOGENESIS	PTHB	5R01 CA15189-02	17,035
DABBOUS, MUSTAFA K	ENZYMATIC AND IMMUNOLOGIC STUDIES OF INVASIVE TUMORS	IMB	5R01 CA15677-02	38,276
DABBOUS, MUSTAFA K	STRUCTURAL CHANGES OF COLLAGEN IN PERIODONTAL DISEASE	DEN	1R01 DE03843-01	40,447
DABBOUS, MUSTAFA K	GINGIVAL MATRIX PROTEINS AND PERIODONTAL DISEASE	DEN	1R01 DE04125-01	45,488
DORSETT, PRESTON H	CHARACTERIZATION OF THE RUBELLA VIRUS PROTEINS	VR	5R01 AI11255-02	27,625
FARMER, T ALBERT, JR	GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00211-11	388,816
FLEMING, IRVIN D	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA17950-01	118,422
GROSVENOR, CLARK E	NEURAL AND HORMONAL REGULATION OF LACTATION	END	5R01 HD04358-16	51,042
IRVING, CHARLES C	BIOCHEMICAL MECHANISMS IN EXPERIMENTAL BLADDER CANCER	SRC	5R26 CA16765-02	47,909
KANG, ANDREW H	CHEMISTRY AND BIOLOGY OF NORMAL AND ABNORMAL COLLAGENS	PC	5R01 AM16506-03	35,774
KAUKER, MICHAEL L	PROSTAGLANDIN EFFECT ON RENAL TUBULAR FUNCTION	GMB	1R01 AM17711-01	27,045
KRAUS, ALFRED P	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	SRC	5P18 HL15169-04	545,005
MAGUN, BRUCE E	NUCLEAR PROTEIN CHANGES IN TRANSFORMATION	SSS	1R01 CA17183-01	43,609
MASI, ALFONSE T	CLINICAL STUDY OF RHEUMATOID ARTHRITIS	SSS	5R01 AM12049-09	141,200
MASON, JAMES M	PATHOGENESIS OF SUDDEN INFANT DEATH SYNDROME	HED	5R01 HD07511-02	60,366
MC GIFF, JOHN C	REGULATION OF RENAL CIRCULATION AND SALT EXCRETION	CVB	1R01 HL18845-01	151,859
MUIRHEAD, ERNEST E	SUPPORT FOR CENTER OF RESEARCH IN HYPERTENSION	SRC	5P17 HL14242-05	632,722
NASILETTI, ALBERTO	ROLE OF KININS IN THE REGULATION OF RENAL FUNCTION	GMB	7R01 HL18844-01	29,405
NEELY, CHARLES L, JR	SOUTHEASTERN CANCER STUDY GROUP	CCI	1R10 CA17027-01	69,176
NICKSON, JAMES J	COMMUNITY CANCER CENTER SUPPORT GRANT (SPECIALIZED)	CAP	1P01 CA16518-01	253,591
NISHIMURA, HIROKO	COMPARATIVE STUDIES OF RENAL HANDLING OF ELECTROLYTES	GMB	1R01 AM17824-01	46,573
NUTTING, DAVID F	ONTOGENY OF SENSITIVITY TO GROWTH HORMONE	END	5R01 HD06580-03	33,676
ROBERTSON, JAMES T	CEREBROVASCULAR RESEARCH PROGRAM	NSPA	5P01 NS06826-07	187,381
SABESIN, SEYMOUR M	PATHOLOGIC EFFECTS ON CELLS OF MODIFIED LIPOPROTEINS	MET	2R01 AM17398-03	52,057
SCHHEEL, KONRAD W	CORONARY COLLATERAL AND PERIPHERAL VASCULATURE STUDY	CVB	5R01 HL15623-03	53,013
SCHNEIDER, EDWARD G	INTRARENAL REGULATION OF SODIUM REABSORPTION	CVB	2R01 HL16658-02	46,077

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TENNESSEE—Continued</b>				
SHARE, LEONARD.....	CONTROL OF ADH SECRETION AND METABOLISM.....	GMB	5R01 HL12990-06	42,917
SHARMA, RAMESHWAR K.....	BIOCHEMICAL CONTROL IN ADRENOCORTICAL CARCINOMA CELLS.....	END	1R01 CA16091-01A1	60,088
SILVERBLATT, FREDRIC J.....	ROLE OF PILI IN GENITOURINARY TRACT INFECTIONS.....	PTHA	1R01 AM17991-01	41,611
SOLOMON, SOLOMON S.....	DYNAMIC ASPECTS OF ADIPOSE TISSUE METABOLISM.....	MET	1R01 AM18022-01A1	45,952
SOLOWAY, MARK S.....	EXPERIMENTAL CHEMOTHERAPY OF MURINE BLADDER CANCER.....	SRC	1R26 CA18643-01	35,926
STILES, ROBERT N.....	MOTOR CONTROL SYSTEM.....	NEUA	2R01 NS08692-06	23,923
STOLLERMAN, GENE H.....	STREPTOCOCCAL IMMUNITY, RHEUMATIC FEVER, AND NEPHRITIS.....	ALY	5R01 AI10085-11	98,674
ORGANIZATION TOTAL	45 4,382,881			
<b>NASHVILLE</b>				
<b>FISK UNIVERSITY ZIP CODE 37203</b>				
HULL, GEORGE.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08062-04	77,532
ORGANIZATION TOTAL	1 77,532			
<b>GEORGE PEABODY COLLEGE FOR TEACHERS ZIP CODE 37203</b>				
HAYWOOD, H CARL.....	RESEARCH PROGRAM ON RETARDED INTELLECTUAL DEVELOPMENT.....	HDMR	5P01 HD00973-12	417,500
HAYWOOD, H CARL.....	CENTER FOR RESEARCH AND HUMAN DEVELOPMENT.....	HDMR	5P01 HD04510-07	370,836
HAYWOOD, H CARL.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07087-10	37,339
ORGANIZATION TOTAL	3 825,675			
<b>MEHARRY MEDICAL COLLEGE ZIP CODE 37208</b>				
ARINZE, IFEANYI J.....	DEVELOPMENT OF CARBOHYDRATE & LIPID METABOLISM IN LIVER.....	MET	1R01 HD08792-01	39,182
DAS, SALIL K.....	NUTRITION AND LIPIDS OF ORAL TISSUES (GINGIVA AND TEETH).....	NTN	2R01 DE03191-04A1	33,951
HOLLETT, CHARLOTTE R.....	AN INHIBITOR OF FREE FATTY ACID MOBILIZATION.....	MET	1R01 HL18811-01	9,256
JACKSON, JULIUS H.....	COMMON POINTS REGULATING ENZYME BIOSYNTHESIS.....	MBC	5R01 GM20880-02	28,971
JOHNSON, CHARLES W.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05422-14	78,598
JOHNSON, CHARLES W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08037-04	162,493
NAVALKAR, RAMCHANDRA G.....	IMMUNOLOGIC STUDIES ON LEPROSY.....	BM	2R22 AI08647-08	39,822
PROCTOR, CHARLES D.....	NUTRITIONAL FACTOR EFFECTS ON DRUG ACTION.....	PTR	2P01 GM17806-06	91,250
RICHARDSON, ELISHA R.....	GROWTH AND DEVELOPMENT OF THE HUMAN HEAD.....	DEN	5R01 DE02862-10	87,996
RICHARDSON, ELISHA R.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05341-11	15,477
RUSSELL, JAMES D.....	KELOIDS: AN IN VITRO MODEL OF TUMOR GROWTH REGULATION.....	GMA	1R01 CA17229-01	89,501
TOWNSEL, JAMES G.....	SYNAPTIC CHEMISTRY AND CARDIOREGULATION IN LIMULUS.....	NEUB	1R01 HL17370-01	65,086
ZELMAN, ALLEN.....	A THIRD GENERATION ARTIFICIAL KIDNEY.....	SGYA	5R01 AM16802-02	37,247
ORGANIZATION TOTAL	13 778,830			
<b>TENNESSEE STATE UNIVERSITY ZIP CODE 37203</b>				
WOOD, HENDERSON K.....	A BIOMEDICAL RESEARCH PROGRAM WITH STUDENT PARTICIPATION.....	GRS	3S06 RR08092-01S2	2,880
ORGANIZATION TOTAL	1 2,880			
<b>VANDERBILT UNIVERSITY ZIP CODE 37240</b>				
ANDREWS, JOHN S.....	CORNEAL METABOLISM.....	VISA	3R01 EY00048-05S1	28,885
BASS, ALLAN D.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00095-15	995,491
BASS, ALLAN D.....	RENOVATION OF CENTRAL ANIMAL FACILITY.....	AR	1P06 RR00724-01A1	95,431
BASS, ALLAN D.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05424-14	255,345
BOERTH, ROBERT C.....	DEVELOPMENTAL ASPECTS OF CARDIOVASCULAR FUNCTION.....	CVB	1R01 HL17629-01A1	46,579
BRADY, ROBERT N.....	STUDIES OF ACETYLCHOLINE RECEPTOR PROTEIN.....	NEUB	1R01 NS11439-01A1	62,773
BRIGHAM, KENNETH L.....	PATHOGENESIS OF INCREASED LUNG VASCULAR MEABILITY.....	CVA	1R01 HL18210-01	60,353
BRIGHAM, KENNETH L.....	TRANSVASCULAR TRANSPORT IN THE LUNG CIRCULATION.....	CVA	1R01 HL18261-01	32,148
BROQUIST, HARRY P.....	LYSINE METABOLISM IN FUNGI.....	MBC	2R01 AM14338-07	43,455
BROQUIST, HARRY P.....	DIETARY LYSINE AND CARNITINE FORMATION.....	NTN	2R01 AM16019-04	92,770
BROWN, JOEL E.....	VISUAL RECEPTOR POTENTIALS.....	VIS	5R01 EY00834-04	26,933
BROWN, JOEL E.....	ANATOMY AND PHYSIOLOGY OF VISION.....	VISB	5R01 EY00835-04	44,274
BURR, IAN M.....	CNS, AUTONOMIC NS, B CELL FUNCTION AND VIABILITY.....	MET	2R01 AM15269-04A1	42,713
BURT, ALVIN M, III.....	MORPHOLOGICAL AND ENZYMATIC STUDIES OF NEUROGENESIS.....	NEUB	5R01 NS07441-04	46,745
BUSH, MILTON T.....	METABOLIC INTERACTION OF DRUGS.....	PHRA	2R01 NS03534-14	87,653
CAMPBELL, ERNEST Q.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07089-10	35,862
CHYTIL, FRANK.....	NUTRITIONAL ASPECTS OF PURINE METABOLISM.....	NTN	2R01 HD05384-04	54,569



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TENNESSEE—Continued</b>				
CHYTIL, FRANK.....	VITAMIN A IN GROWTH AND DEVELOPMENT.....	NTN	1R01 HD09195-01	65,984
CHYTIL, FRANK.....	LUNG HORMONAL AND CHROMOSOMAL REGULATION.....	HED	5R01 HL15341-03	44,722
COHEN, STANLEY.....	STRUCTURAL STUDY OF EPIDERMAL GROWTH FACTOR.....	MBY	5R01 HD00700-12	77,566
COLLEY, DANIEL G.....	IMMUNOLOGIC RESPONSES TO SCHISTOSOMA MANSONI.....	TMP	5R22 AI11289-03	35,015
COLOWICK, SIDNEY P.....	THE ROLE OF GLYCOLYSIS IN TUMOR GROWTH.....	PC	3R01 CA04910-15S1	3,731
COLOWICK, SIDNEY P.....	ENZYMATIC OXIDATION AND PHOSPHORYLATION.....	BIO	5R01 GM20656-17	71,889
CONIGLIO, JOHN G.....	BIOSYNTHESIS AND INTERCONVERSIONS OF FATTY ACIDS.....	PC	5R01 AM06483-12	29,921
CONIGLIO, JOHN G.....	COMPOSITION AND METABOLISM OF LIPIDS OF HUMAN TESTES.....	MET	2R01 HD06070-04	43,690
CONIGLIO, JOHN G.....	LIPID CHEMISTRY AND METABOLISM IN REPRODUCTIVE TISSUE.....	MET	5R01 HD07694-03	44,425
CORBIN, JACKIE D.....	REGULATION OF METABOLISM BY CAMP-DEPENDENT KINASES.....	PC	2R01 AM15988-04	35,924
CROFFORD, OSCAR B.....	SUPPORT FOR DIABETES-ENDOCRINOLOGY CENTER.....	SSS	5P17 AM17026-02	483,834
CUNNINGHAM, LEON W.....	THE GLYCOPOLYPEPTIDE REGIONS OF COLLAGEN.....	PC	5R01 AM11821-07	40,163
DANZO, BENJAMIN J.....	ENDOCRINE REGULATION OF EPIDIDYMAL FUNCTION.....	REB	1R01 HD08295-01A1	50,852
DAVIES, JACK.....	ENDOMETRIAL-BLASTOCYST INTERRELATIONSHIPS.....	REB	3R01 HD05154-03S1	5,647
DAVIES, JACK.....	ENDOMATERIAL-BLASTOCYST INTERRELATIONSHIPS.....	REB	2R01 HD05154-04	35,989
DES PREZ, ROGER M.....	PLATELET INJURY IN INFECTIOUS AND ALLERGIC DISEASES.....	ALY	5R01 HL08399-12	42,955
DETBARN, WOLF D.....	NERVE-MUSCLE INTERACTIONS IN EXPERIMENTAL MYOPATHIES.....	NEUB	1R01 NS12438-01	100,105
DISABATO, GIOVANNI.....	LYMPHOCYTE FACTOR IN NORMAL AND LEUKEMIC MICE.....	IMB	1R01 CA16500-01	11,809
ELLIOTT, JAMES H.....	STUDIES OF OCULAR HYPERSENSITIVITY.....	SSS	5R01 EY00344-08	37,032
EXTON, JOHN H.....	HEPATIC METABOLISM IN DIABETES AND OBESITY.....	MET	5R01 AM16129-02	38,322
FIELD, LAMAR.....	BIOLOGICALLY ORIENTED ORGANIC SULFUR CHEMISTRY.....	MCHB	5R01 AM11685-08	50,741
FLEISCHER, BECCA C.....	THE ROLE OF GOLGI APPARATUS IN KIDNEY CELLS.....	MBY	5R01 AM17223-02	49,950
FLEISCHER, SIDNEY.....	STRUCTURE AND FUNCTION OF MEMBRANES AND ORGANELLES.....	MBY	2R01 AM14632-12	149,091
FOSTER, JOHN H.....	SPECIALIZED CENTER OF RESEARCH IN HYPERTENSION.....	SRC	5P17 HL14192-05	484,142
FOX, ROBERT.....	THE SUPPRESSION MECHANISM IN BINOCULAR RIVALRY.....	EXP	2R01 EY00590-12	30,038
FREEMAN, JOHN A.....	STRUCTURAL AND FUNCTIONAL STUDY OF THE OPTIC TECTUM.....	NEUA	5R01 EY01117-03	12,945
GALLE, OMER R.....	ROLE OF POPULATION DENSITY IN HUMAN BEHAVIOR.....	POP	2R01 HD06911-03	30,943
GRAHAM, THOMAS P, JR.....	QUANTITATIVE ANALYSIS OF RIGHT HEART FUNCTION.....	CVB	2R01 HL14454-04A1	48,839
HARBISON, RAYMOND D.....	PESTICIDE-INDUCED CHANGE DURING THE PERINATAL PERIOD.....	TOX	5R01 ES00782-04	33,246
HARDMAN, JOEL G.....	ROLE OF CYCLIC GMP: CONTROL OF CYCLIC GMP METABOLISM.....	PHRA	2R01 GM16811-06	100,733
HARDMAN, JOEL G.....	THE ROLE OF CYCLIC NUCLEOTIDES IN VASCULAR TISSUE.....	PHRA	5R01 HL13996-04	39,473
HARRIS, THOMAS M.....	TETRACYCLINES AND RELATED PHENOLIC NATURAL PRODUCTS.....	MCHA	5R01 GM12848-11	44,917
HARSHMAN, SIDNEY.....	CHEMISTRY OF ALPHA TOXIN AND ACTION ON MEMBRANES.....	MBG	5R01 AI11564-03	41,863
HARSHMAN, SIDNEY.....	GLYCOPROTEIN AGGLUTININS OF NORMAL & TRANSFORMED CELLS.....	ALY	5R01 CA17050-02	45,352
HAWIGER, JACK J.....	INFECTIONS & COAGULATION: CELLULAR & HUMORAL FACTORS.....	HEM	5R01 HL16646-02	45,499
HELLERQVIST, CARL G.....	ANALYSIS OF EUKARYOTIC CELL SURFACES.....	MBY	1R01 CA16865-01	47,902
HNILICA, LUBOMIR S.....	PROTEINS OF THE CELL NUCLEUS.....	PC	7R01 CA18389-01	76,936
HOFFMAN, LOREN H.....	UTERINE AND PLACENTAL CONTROL OF LUTEAL FUNCTION.....	REB	2R01 HD05942-04	41,489
INAGAMI, TADASHI.....	RENIN: PURIFICATION, CHARACTERIZATION AND ASSAY.....	PC	5R01 HL16114-02	44,242
JENKINS, DAVID E, JR.....	HUMAN RED CELL ANTIBODY AND COMPLEMENT INTERACTIONS.....	HEM	9R01 HL18816-03	48,140
JOHNSON, ROGER A.....	REGULATION OF ADENYLATE CYCLASE & CAMP METABOLISM.....	BIO	1R01 AM18185-01	46,259
JONES, MARK M.....	POSSIBLE NEW ANTIDOTES FOR MERCURY POISONING.....	TOX	1R01 ES01018-01A1	75,960
KAAS, JON H.....	VISUAL ASSOCIATION CORTEX.....	NEUA	1R01 NS12377-01	45,935
KAPLAN, ALBERT S.....	METABOLISM OF CELLS INFECTED WITH NUCLEAR DNA VIRUSES.....	SSS	5R01 AI10947-04	174,740
KONO, TETSURO.....	ACTION OF INSULIN ON CELL MEMBRANE.....	MET	5R01 AM06725-14	54,218
KRANTZ, SANFORD B.....	ERYTHROPOIETIN AND THE REGULATION OF ERYTHROPOIESIS.....	HEM	2R01 AM15555-04	72,389
LEMBACH, KENNETH J.....	GROWTH STIMULATION OF CULTURED ANIMAL CELLS.....	MBY	2R01 CA12810-04A1	53,933
LERMAN, LEONARD S.....	DNA-PROTEIN INTERACTIONS AND CHROMOSOME STRUCTURE.....	BBCA	5R01 GM13767-10	83,615
LIDDLE, GRANT W.....	PITUITARY-ADRENAL PHYSIOLOGY AND PHARMACOLOGY.....	END	5R01 AM05318-14	90,217
LILJENQUIST, JOHN E.....	GLUCONEOGENESIS: ITS ROLE AND REGULATION.....	SGYB	1R01 AM18243-01	99,460
MC GEE, ZELL A.....	HOST MECHANISMS OPERATIVE IN CHRONIC INFECTIONS.....	BM	5R01 AI03082-16	74,441
MENG, H C.....	ESSENTIAL FATTY ACID DEFICIENCY IN MAN AND ANIMAL.....	NTN	1R01 AM18281-01A1	194,940
MENG, H C.....	LIPOLYTIC ENZYMES OF PLASMA AND TISSUES.....	MET	5R01 HL04372-15	65,454
MITCHELL, WILLIAM M.....	HUMAN PROCOLLAGEN STRUCTURE AND FUNCTION.....	BBCB	1R01 AM18222-01	42,596
MOSIG, GISELA.....	DNA REPLICATION AND RECOMBINATION IN BACTERIOPHAGE.....	GEN	5R01 GM13221-10	62,732
NEAL, ROBERT A.....	A STUDY OF THIAMINE METABOLISM IN MAMMALS.....	NTN	2R01 AM10297-09	29,365
NEAL, ROBERT A.....	ENZYMIC MECHANISMS OF INSECTICIDE METABOLISM.....	SSS	5R01 ES00075-11	45,378
NEAL, ROBERT A.....	CENTER IN ENVIRONMENTAL TOXICOLOGY.....	SSS	5P10 ES00267-08	475,994
NUNNALLY, JUM C.....	MEANING-PROCESSING OF VISUAL DISPLAYS.....	DBR	1R01 HD09337-01	39,286
OATES, JOHN A.....	RESEARCH CENTER FOR PHARMACOLOGY AND DRUG TOXICOLOGY.....	PTR	5P11 GM15431-09	1,542,119

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TENNESSEE—Continued</b>				
ORGEBIN-CRIST, M	MALE REPRODUCTIVE PHYSIOLOGY	REB	5R01 HD03820-07	75,563
ORTH, DAVID N	TUMOR CELL SYNTHESIS AND SECRETION OF PEPTIDE HORMONES	END	5R01 CA11685-06	69,634
ORTH, DAVID N	RADIOIMMUNOASSAY OF MAMMALIAN ONCOVIRUS ANTIGENS	VR	5R01 CA14792-03	52,326
PAGE, DAVID L	CHEMICAL DEFINITION OF AMYLOID IN ENDOCRINE TUMORS	PTHB	1R01 CA16547-01	48,916
PARK, CHARLES R	STUDY OF HORMONAL REGULATION OF METABOLISM	AMP	5P01 AM07462-12	317,955
PARK, JANE H	STUDIES ON 3-PHOSPHOGLYCERALDEHYDE DEHYDROGENASE	BIO	5R01 GM07884-14	58,578
PATTON, JAMES A	AN EVALUATION OF XRF SCANNING IN THYROID DISEASE	RAD	5R01 AM17484-02	10,856
PILKIS, SIMON J	CONTROL OF ION FLUXES AND GLUCONEOGENESIS IN LIVER	MET	1R01 AM18270-01	42,852
POST, ROBERT L	THE ION PUMP IN THE ERYTHROCYTE	PHY	5R01 HL01974-21	88,885
PUETT, J DAVID	STRUCTURE AND METABOLISM OF PITUITARY HORMONES	PC	2R01 AM15838-04	77,356
ROBINSON, JOHN P	THE AMINO ACID SEQUENCE OF TETANUS TOXIN	BIO	1R01 AI12750-01	76,517
ROELOFS, ROBERT L	A STUDY OF HUMAN SKELETAL MUSCLE IN TISSUE CULTURE	MBY	5R01 NS10665-03	9,514
ROSENTHAL, RONALD E	STUDIES OF THE SYNOVIAL RESPONSE TO ACUTE TRAUMA	SGYB	5R01 AM17475-02	28,967
SASTRY, B RAMA	CHOLINERGIC SYSTEM, PLACENTAL TRANSPORT AND FETAL GROWTH	HED	1R01 HD08561-01	51,299
SASTRY, B RAMA	BIOLOGICAL SIGNIFICANCE OF CHOLINE ESTERS OTHER THAN ACH	PHRA	5R01 NS04699-10	59,415
SODERLING, THOMAS R	REGULATION OF PHOSPHOPROTEIN PHOSPHATASES	PC	1R01 AM17808-01A1	19,603
SOUPART, PIERRE	MALIGNANCY IN MOUSE GERM CELL - CANCER CELL HYBRIDS	GEN	5R01 CA14953-02	46,847
SOUPART, PIERRE	CYTOGENETICS OF HUMAN PREIMPLANTATION EMBRYOS	HED	1R01 HD08837-01	79,020
STAHLMAN, MILDRED T	NEONATAL LUNG CENTER	SRC	5P17 HL14214-05	728,912
SUSSMAN, GEORGE D	HEALTH CARE IN EARLY NINETEENTH-CENTURY FRANCE	SSS	1R01 LM02331-01	14,413
TOUSTER, OSCAR	BIOCHEMICAL STUDIES ON LYSOSOMES AND RELATED ENZYMES	MBY	5R01 CA07489-12	61,456
WAGNER, CONRAD	TISSUE STORES OF FOLATE. DIETARY CONTROL AND ASSAY	NTN	1R01 AM15289-01A3	32,550
WELLS, JACK N	RIGID NONSTEROIDAL ANTIINFLAMMATORY AGENTS	MCHA	5R01 AM17560-02	24,121
WILSON, BENJAMIN J	FUNGUS TOXINS AND MOLDY FOOD DISEASES	TOX	5R01 ES00569-10	41,434
WILSON, FREDERICK A	A PATHOPHYSIOLOGIC APPROACH TO THE DIARRHEAL STATES	GMA	1R01 AM18525-01	46,414
WILSON, JOHN T	STUDIES ON DRUG HYDROXYLATION	PHRA	1R01 GM21949-01	49,908
ORGANIZATION TOTAL	103	10,400,377		

## OAK RIDGE

### OAK RIDGE ASSOCIATED UNIVERSITIES ZIP CODE 37830

CLOUTIER, ROGER J	SYMPOSIUM ON RADIOPHARMACEUTICAL DOSIMETRY	RAD	1R13 CA18516-01	15,000
GENGOZIAN, NAZARETH	IMMUNOLOGIC TOLERANCE IN THE MARMOSET	IMB	5R01 AI12007-10	113,789
GENGOZIAN, NAZARETH	AUTOIMMUNE THROMBOCYTOPENIA	HEM	1R01 HL16757-01	84,516
HAYES, RAYMOND L	CONCENTRATION OF RADIONUCLIDES BY MALIGNANT NEOPLASMS	RAD	5R01 CA11858-06	133,947
HAYES, RAYMOND L	ORAU-ORNL STUDY OF CARBON-11 IN NUCLEAR MEDICINE	RAD	5R01 CA14669-02	163,513
LITTLEFIELD, L GAYLE	EVALUATION OF INDUCED CYTOGENETIC LESIONS IN OOCYTES	HED	1R01 HD08828-01	75,381
LUSHBAUGH, CLARENCE C	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05746-03	59,917
SNYDER, FRED L	ETHER LIPIDS IN CANCER-ENZYME MECHANISMS & INHIBITORS	PC	2R01 CA11949-06	42,735
SNYDER, FRED L	SURFACTANT METABOLISM: ALVEOLAR CELLS & LUNG DISEASE	PC	1R01 HL18181-01	41,872
WYKLE, ROBERT L	LYSOPHOSPHOLIPASE D IN TUMORS AND OTHER TISSUES	SSS	1R01 CA17295-01	38,445
ORGANIZATION TOTAL	10	769,115		

STATE TOTAL 231 21,451,205

## TEXAS

### AUSTIN

#### UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN ZIP CODE 78712

BERRY, L JOE	EFFECT OF ENDOTOXIN ON INDUCTION OF LIVER ENZYMES	BM	5R01 AI10087-06	40,527
BERRY, L JOE	STUDY OF IMMUNITY TO CHOLERA	BM	2R22 AI10466-04	41,257
BLOCH, DAVID P	STUDIES ON HISTONE METABOLISM	MBY	5R01 GM09654-14	56,614
BOSE, HENRY R	SUPERINFECTION EXCLUSION IN RNA ANIMAL VIRUSES	VR	5R01 AI11996-02	42,431
BOSE, HENRY R	BIOLOGY OF THE RETICULOENDOTHELIOSIS VIRUS GROUP	VR	5R01 CA16329-02	53,823
BROWN, JAMES R	STUDIES ON PRIMARY AND TERTIARY STRUCTURE OF PROTEINS	PC	5R01 HD02899-08	31,611
BROWNING, HARLEY L	POPULATION RESEARCH PROGRAM	HDPR	5P01 HD06160-04	81,400
CHARNES, A	COSTS AND THEIR ASSESSMENT TO USERS IN A MEDICAL LIBRARY	BLR	1R01 LM02333-01	105,416

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
CONROY, MICHAEL E.....	MACROECONOMIC SIMULATION OF MIGRATION AND DEVELOPMENT.....	POP	1R01 HD08710-01	41,921
FOLKERS, KARL.....	TUMOR INHIBITION BY PROLACTIN INHIBITING FACTOR.....	END	5R01 CA14200-03	41,008
FOX, J LAWRENCE.....	FLAVODOXIN REACTION MECHANISMS.....	BBCA	1R01 GM21688-01	49,428
GESTRIN, PHYLLIS J.....	NEURAL CONTROL OF EYE MOVEMENTS.....	VISB	1R01 EY01506-01	53,031
GIBSON, DAVID T.....	ENZYMATIC OXYGEN FIXATION INTO AROMATIC HYDROCARBONS.....	MBC	5R01 ES00537-05	30,324
GUMMERMAN, RICHARD K.....	DEVELOPMENT OF HUMAN VISUAL INFORMATION PROCESSING.....	EXP	5R01 HD07614-02	23,474
HAMILTON, TERRELL H.....	CONTROL MECHANISMS IN REPRODUCTION.....	HOPR	2P01 HD03803-07	365,262
HARDESTY, BOYD A.....	PROTEIN SYNTHESIS IN RETICULOCYTES AND LEUKEMIC CELLS.....	SSS	1R01 CA16608-01	62,145
HIRAZUMI, YUICHIRO.....	STUDY OF PREZYGOTIC SELECTION IN HUMAN POPULATIONS.....	GEN	5R01 GM19770-03	31,419
JESPersen, NEIL D.....	STUDY OF THERMOMETRIC METHODS OF CLINICAL ANALYSIS.....	BBCA	5R01 GM19651-02	14,497
LARIMER, JAMES L.....	NEURAL BASIS OF BEHAVIOR.....	NEUB	2R01 NS05423-11	50,337
LONG, WALTER K.....	GENETIC ENZYME VARIANTS, URIC ACID, AND LIPIDS.....	HEM	5R01 AM15818-04	44,280
LONGENECKER, JOHN B.....	PLASMA AMINO ACID METHOD TO ASSESS AMINO ACID NEEDS.....	NTN	5R01 AM16836-02	33,202
MAGUIRE, MARJORIE P.....	CHROMOSOME STRUCTURE AND MEIOTIC MECHANISMS.....	GEN	5R01 GM19582-03	4,641
MANDY, WILLIAM J.....	STUDIES WITH ANTIGLOBULIN ANTIBODIES.....	ALY	5R01 A107184-10	72,731
MC FADDEN, DENNIS.....	PSYCHOPHYSICS OF BINAURAL HEARING.....	CMS	5R01 NS08754-06	61,708
MYERS, JACK E.....	METABOLIC CONTROLS IN LIGHT-DRIVEN METABOLISM.....	BIO	5R01 GM11300-12	40,738
PAVAN, CROWDOWALDO.....	CHROMOSOME AND GENE ACTIVITY IN SCIARIDAE.....	GEN	5R01 GM19331-02	50,009
PEREZ-POLO, JOSE R.....	NEURAL DIFFERENTIATION: NERVE GROWTH FACTOR PROTEINS.....	BBCA	5R01 NS11211-03	34,380
POWERS, EDWARD L.....	PHYSICO-CHEMICAL STUDIES ON IRRADIATED CELLS.....	SSS	5R01 GM13557-09	95,376
POWERS, EDWARD L.....	CENTER FOR FAST KINETICS RESEARCH.....	RAD	1P07 R000886-01A1	234,783
RAVEL, JOANNE M.....	FACTORS CONTROLLING PROTEIN BIOSYNTHESIS.....	PC	2R01 GM18775-04	50,702
REED, LESTER J.....	BIOCHEMISTRY OF A-KETO ACID DEHYDROGENASE COMPLEXES.....	BIO	5R01 GM06590-16	94,915
RICHARDSON, PHILIP C.....	INDUCED AV NODAL CONDUCTION CHANGES IN NORMAL HEARTS.....	CVB	1R01 HL18247-01	19,268
RICHARDSON, RICHARD H.....	DNA AND KARYOTYPIC STUDIES OF DROSOPHILA GENOMES.....	GEN	5R01 GM19616-03	59,986
RICHARDSON, RICHARD H.....	MAN-COMPUTER INTERACTIVE ANALYSIS OF CHROMOSOMES.....	GEN	5R01 GM20028-03	86,491
RICHARDSON, RICHARD H.....	SUPPORT FOR COLLECTION OF DROSOPHILA SPECIES.....	GEN	5P06 R000729-03	45,858
RUBIN, ARNOLD S.....	T CELL REGULATION OF THE HUMORAL IMMUNE RESPONSE.....	ALY	1R01 A112752-01	48,650
SANDERS, BOB G.....	COMPLEXITY AND EVOLUTION OF CHICKEN IMMUNOGLOBULINS.....	ALY	5R01 A109533-05	27,830
SANDERS, BOB G.....	EMBRYONIC & VIRALLY INDUCED TUMOR-CELL MEMBRANE ANTIGENS.....	ALY	2R01 CA12851-04	33,208
SMITH, ROBERT V.....	METABOLISM OF A POMORPHINE AND ITS ANALOGS.....	MCHB	7R01 NS12259-01	58,058
SUMMERS, MAX D.....	MECHANISMS OF INFECTION OF INSECT VIRUSES.....	TMP	5R01 A109765-06	25,153
SUMMERS, MAX D.....	ARBOVIRUSES AS MECHANISMS OF INFECTION BY MOSQUITOES.....	TMP	5R01 A111192-03	33,791
SUTTON, H ELDON.....	GENETIC AND CHEMICAL STUDIES OF PROTEIN VARIATIONS.....	GEN	5R01 GM09326-14	108,168
SUTTON, H ELDON.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 R07091-10	58,658
TAYLOR, H LYNDON.....	INTRACRANIAL PRESSURE MEASUREMENT SYSTEM: PART I.....	NEUA	1R01 NS12139-01	20,167
THOMPSON, GUY A, JR.....	THE BIOCHEMISTRY OF MEMBRANE ASSEMBLY AND STABILITY.....	MBY	5R01 GM20148-02	39,865
WADE, CHARLES G.....	NMR RELAXATION OF LIQUID CRYSTAL SYSTEMS.....	BBCB	2R01 HL12528-07	50,036
WAGNER, ROBERT P.....	STUDIES IN BIOCHEMICAL GENETICS.....	GEN	5R01 GM12323-11	91,480
WALKER, JAMES R.....	REGULATION OF BACTERIAL CELL DIVISION.....	MBC	2R01 A108286-07A1	45,507
WELCH, ASHLEY J.....	OCULAR DAMAGE DUE TO RETINAL TEMPERATURE RISE.....	VISA	5R01 EY01162-02	37,834
ORGANIZATION TOTAL	49 2,923,398			

## COLLEGE STATION

TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY			ZIP CODE 77843	
BATES, GEORGE W.....	ERYTHROFERRIN AND ITS ROLE IN HEMOGLOBIN SYNTHESIS.....	HEM	1R01 AM17790-01	14,925
CALHOUN, JOHN C, JR.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 R07090-10	32,376
COTTON, F ALBERT.....	STRUCTURE OF A MICROCOCCAL NUCLEASE.....	BBCB	5R01 GM19455-03	101,527
HARDING, KENN E.....	ALICYCLIC CATIONS IN BIOGENETIC-LIKE REACTIONS.....	MCHB	5R01 AM15157-05	22,245
HARDING, KENN E.....	SYNTHESIS OF TUMOR INHIBITORY SESQUITERPENOIDs.....	MCHB	5R01 CA15736-02	26,880
IRGOLIC, KURT J.....	CHARACTERIZATION OF ORGANOARSENIC COMPOUNDS IN NATURE.....	MCHB	1R01 ES01125-01	62,852
MARIANO, PATRICK S.....	SYNTHESIS OF MITROMYCIN ANALOGS.....	MCHA	1R01 CA16695-01	34,938
MARTELL, ARTHUR E.....	REACTIONS OF METAL CHELATES OF VITAMIN B6.....	MCHB	5R01 AM11694-09	34,390
MARTELL, ARTHUR E.....	ENZYME MODELS CONTAINING AMINOALKYLPHOSPHONIC ACIDS.....	MCHB	3R01 GM20511-01S1	1,708
NAGYVARY, JOSEPH J.....	DEVELOPMENT OF DRUGS FOR CANCER CHEMOTHERAPY.....	ET	5R01 CA11389-06	60,343
REISER, RAYMOND.....	DIET CONTROL OF LIPID METABOLISM.....	NTN	2R01 AM06011-14A1	61,851
SEED, JOHN R.....	NEUROLOGICAL LESIONS DURING AFRICAN TRYPAOSOMIASIS.....	TMP	7R01 NS12447-01	26,117



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator		Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>					
ZINGARO, RALPH A.....		THIO AND SELENO SUGAR ESTERS OF GROUP-V ACIDS.....	MCHB	5R01 CA16912-02	27,432
ORGANIZATION TOTAL	13	507,584			
<b>DALLAS</b>					
<b>BAYLOR COLLEGE OF DENTISTRY</b>		<b>ZIP CODE 75226</b>			
FRAZIER, LOY W. JR.....		PLASMA FACTOR(S) WHICH STIMULATE H <sub>2</sub> O & NH <sub>4</sub> O EXCRETION.....	PHY	1R01 AM18689-01	24,481
KOLSTAD, ROBERT A.....		RAPID IDENTIFICATION OF STREPTOCOCCUS SANGUIS STRAINS.....	DEN	5R01 DE03923-02	14,344
ORGANIZATION TOTAL	2	38,825			
<b>BAYLOR UNIVERSITY MEDICAL CENTER</b>		<b>ZIP CODE 75246</b>			
COOPER, BILLY H.....		METABOLISM OF PATHOGENIC DEMATIACEOUS FUNGI.....	BM	1R01 AI13184-01	21,922
ORGANIZATION TOTAL	1	21,922			
<b>BISHOP COLLEGE</b>		<b>ZIP CODE 75241</b>			
FOWLES, EDISON R.....		INTERDISCIPLINARY RESEARCH IN MOLECULAR BIOLOGY.....	GRS	5S06 RR08050-04	47,865
ORGANIZATION TOTAL	1	47,865			
<b>CALLIER CENTER FOR COMMUNICATION DISORDERS</b>		<b>ZIP CODE 75235</b>			
GERKEN, GEORGE M.....		EFFECTS OF DEAFNESS ON CENTRAL AUDITORY FUNCTION.....	CMS	5R01 NS08612-04	45,941
MOUSHEGIAN, GEORGE.....		STUDY OF BINAURAL NEUROPHYSIOLOGY.....	NEUB	5R01 NS07925-04	59,513
ORGANIZATION TOTAL	2	105,454			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS</b>		<b>ZIP CODE 75235</b>			
ANDERSON, RICHARD G.....		DEVELOPMENT AND FUNCTION OF THE OVIDUCT BASAL BODY.....	REB	1R01 HD08987-01	55,741
ANDREWS, PETER M.....		ULTRASTRUCTURE IN AMINONUCLEOSIDE INDUCED NEPHROSIS.....	PTHA	1R01 AM18043-01	20,362
BAXTER, CHARLES R.....		CIRCULATORY AND FLUID VOLUME CHANGES IN BURNS.....	SGYB	3R01 GM21681-11S1	5,587
BELL, WILLIAM H.....		STUDY OF SURGICAL ORTHODONTICS AND BONE-HEALING.....	DEN	5R01 DE03794-03	62,323
BERK, ROBERT N.....		BILIARY RADIOGRAPHIC CONTRAST MATERIALS.....	RAD	1R01 AM17832-01	123,888
BILHEIMER, DAVID W.....		LIPOPROTEIN METABOLISM IN RELATION TO ATHEROSCLEROSIS.....	MET	5R01 HL15949-02	31,639
BILLINGHAM, RUPERT E.....		IMMUNOBIOLOGY OF TISSUE TRANSPLANTATION AND PREGNANCY.....	IMB	5R01 AI10678-04	253,721
BONTE, FREDERICK J.....		GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05426-14	255,345
BROWN, MICHAEL S.....		CONTROL OF CHOLESTEROL SYNTHESIS IN HYPERLIPIDEMIA.....	MET	5R01 HL16024-02	119,752
BUNTING, JAMES R.....		STUDIES OF HEART ADENYL CYCLASE COMPLEX.....	BBCA	1R01 HL18272-01	45,960
BURK, RAYMOND F, JR.....		NUTRITIONAL SIGNIFICANCE OF SELENIUM-2 SELENOPROTEINS.....	NTN	5R01 ES01017-02	43,238
BUTOW, RONALD A.....		MECHANISMS OF BIOENERGETIC REACTIONS.....	MBY	5R01 GM19090-04	51,277
CAPRA, J DONALD.....		RAGWEED POLLEN ALLERGENS: STRUCTURE AND FUNCTION.....	ALY	1R01 AI12796-01	26,806
CARLSON, DONALD E.....		PRECLINICAL STUDY OF RADIOBIOLOGY OF NEGATIVE PIONS.....	RAD	5R01 CA13371-03	60,414
CLARK, WESLEY G.....		EFFECTS OF DRUGS ON THERMOREGULATORY MECHANISMS.....	PHRA	5R01 NS08618-05	28,961
COMBES, BURTON.....		STUDY OF HEPATIC EXCRETORY FUNCTION.....	GMA	5R01 AM13757-18	112,968
DEMPSEY, WALTER B.....		BIOSYNTHESIS AND REGULATION OF PYRIDOXAL 5'-PHOSPHATE.....	BIO	5R01 AM14157-06	30,693
DIETSCHY, JOHN M.....		MECHANISMS OF FAT AND STEROID ABSORPTION BY THE GUT.....	PHY	5R01 AM16386-03	29,421
DIETSCHY, JOHN M.....		CONTROL OF CHOLESTEROL METABOLISM: BILE ACID TRANSPORT.....	MET	3R01 HL09610-10S1	14,830
DIETSCHY, JOHN M.....		CONTROL OF CHOLESTEROL METABOLISM: BILE ACID TRANSPORT.....	GMA	2R01 HL09610-11	166,148
DOWBEN, ROBERT M.....		STUDIES OF M-RNA IN NORMAL AND CANCER CELLS.....	ALY	1R01 CA18633-01A1	63,330
DOWBEN, ROBERT M.....		FLUORESCENT PROBE STUDIES OF HEART MUSCLE PROTEINS.....	BBCA	1R01 HL16678-01A1	71,383
ERDOS, ERVIN G.....		PHARMACOLOGY OF THE BIOSYNTHESIS AND RELEASE OF RENIN.....	PHRA	5R01 HL16319-02	26,786
ERDOS, ERVIN G.....		VASOACTIVE PEPTIDES WHICH STIMULATE SMOOTH MUSCLES.....	PHRA	5R01 HL16320-03	58,623
ESTABROOK, RONALD W.....		STUDY OF HEPATIC MICROSOMAL DRUG OXIDATION.....	PTR	5R01 GM16488-07	198,049
FEIT, HOWARD.....		THE ROLE OF TUBULIN AT THE NERVE ENDING.....	NEUB	1R01 NS12743-01	41,543
FINKELSTEIN, RICHARD A.....		CHOLERA EXO-ENTEROTOXIN AND IMMUNITY IN CHOLERA.....	BM	5R22 AI08877-07	59,479
FINKELSTEIN, RICHARD A.....		ESCHERICHIA COLI DIARRHEAGENIC ENTEROTOXIN.....	BM	5R22 AI10066-05	24,982
FINKELSTEIN, RICHARD A.....		PATHOGENESIS AND IMMUNOLOGY OF NEISSERIA GONORRHEA.....	BM	5R01 AI11278-03	20,554
FORDTRAN, JOHN S.....		WATER AND SOLUTE MOVEMENT IN THE HUMAN INTESTINE.....	GMA	5R01 AM06506-13	115,849
FORDTRAN, JOHN S.....		GASTRIC ACID SECRETION AND BUFFER CONTENT AFTER EATING.....	GMA	5R01 AM16816-02	51,500
FOSTER, DANIEL W.....		REGULATION OF KETOGENESIS IN TISSUES.....	MET	9R01 AM18573-14	111,991
FRENKEL, EUGENE P.....		CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA18132-01	77,545
FRENKEL, RENE.....		FUNCTION AND REGULATION OF MAMMALIAN MALIC ENZYMES.....	NTN	1R01 AM17983-01	36,123
GANT, NORMAN F, JR.....		PLACENTAL FUNCTION IN NORMAL AND ABNORMAL PREGNANCY.....	HED	5R01 HD08360-02	39,114

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
GARDINER, THOMAS H.....	EFFECT OF EDEMA AND FIBROSIS ON LUNG PERMEABILITY.....	YIP	1R23 HL18334-01	39,080
GARRARD, WILLIAM T.....	STRUCTURE OF THE SUBUNITS OF EUKARYOTIC CHROMOSOMES.....	MBY	1R01 GM22201-01	52,087
GAULDEN, MARY E.....	CHROMOSOME MUTATIONS IN INFANTS AND CHILDREN.....	RAO	5R01 HD06832-04	72,156
GOLDSTEIN, JOSEPH L.....	REGULATION OF GENE EXPRESSION BY SEX HORMONES.....	GEN	5R01 GM19258-03	57,176
GONYEA, WILLIAM J.....	ADAPTATION OF MUSCLE TO HIGH-INTENSITY EXERCISE.....	AFY	1R01 AM17615-01A1	42,743
GOYAL, RAJ K.....	PATHOPHYSIOLOGY OF ESOPHAGEAL MOTOR DISORDERS.....	GMA	1R01 AM18403-01	90,678
GRINNELL, FREDERICK.....	ADHESION OF NORMAL AND MALIGNANT MAMMALIAN CELLS.....	MBY	5R01 CA14609-03	36,427
HACKENBROCK, CHARLES R.....	STUDIES ON NORMAL AND MALIGNANT CELL SURFACES.....	SSS	1R01 GM21698-01	139,044
HERSH, LOUIS B.....	STUDIES ON THE ENZYMES OF METHYLAMINE METABOLISM.....	MCB	5R01 AM13443-07	45,072
HOLMES, KATHRYN V.....	R-TYPE VIRUS-LIKE PARTICLE: A NOVEL ONCOGENIC VIRUS.....	VR	1R01 CA17713-01	43,901
HOLMES, RANDALL K.....	CONTROL OF BACTERIAL TOXINS BY VIRUSES AND PLASMIDS.....	MCB	5R22 AI11478-03	19,965
JASIN, HUGO E.....	ROLE OF IMMUNE COMPLEXES IN CHRONIC INFLAMMATION.....	IMB	5R01 AM16209-02	21,268
JOHNSON, ALICE R.....	INTERACTION OF PEPTIDES AND TARGET CELLS IN LUNG.....	IMB	1R01 HL18826-01	35,100
JOHNSTON, JOHN M.....	INTESTINAL ABSORPTION AND METABOLISM OF LIPIDS.....	MET	5R01 AM03108-16	62,836
KANG, CHIL-YONG.....	RNA TUMOR VIRUSES & THE ORIGIN OF GENES FOR NEOPLASIA.....	VR	1R01 CA16479-01	49,468
KAPLAN, NORMAN M.....	ROLE OF RENIN ALDOSTERONE IN HYPERTENSION IN MAN.....	GMB	5R01 HL14863-03	62,313
KETTMAN, JOHN R, JR.....	THE RELATION OF HUMORAL AND CELL MEDIATED IMMUNITIES.....	IMB	5R01 AI11630-02	33,486
KETTMAN, JOHN R, JR.....	SPECIFIC ACTIVATION OF T AND B LYMPHOCYTES.....	IMB	5R01 AI11893-02	38,059
KIRKPATRICK, JOEL B.....	MECHANISM OF NEUROPLASMIC FLOW.....	PTHA	5R01 NS11239-03	30,306
KLEIN, JAN.....	POLYMORPHISM OF THE MAJOR HISTOCOMPATIBILITY COMPLEX.....	IMB	5R01 AI11879-02	67,148
KLEIN, JAN.....	SEROLOGICAL ANALYSIS OF IR REGION OF MURINE H-2 COMPLEX.....	IMB	1R01 AI12589-01	38,293
KLEIN, JAN.....	MECHANISM OF TUMOR VARIANT FORMATION.....	IMB	1R01 CA17225-01	35,013
KOKKO, JUHA P.....	TRANSPORT PROPERTIES OF ISOLATED PERFUSED NEPHRONS.....	PHY	5R01 AM14677-05	51,338
LINN, TRACY C.....	A-KETO ACID METABOLISM IN HEART, KIDNEY, AND LIVER.....	BIO	5R01 HL14055-05	44,146
LIPTON, JAMES M.....	CENTRAL THERMOSENSITIVE CONTROLS OF BODY TEMPERATURE.....	NEUB	2R01 NS10046-02A2	48,767
LUBY, JAMES P.....	CYTOMEGALOVIRUS IN RENAL TRANSPLANT RECIPIENTS.....	VR	1R01 AI12658-01	48,411
MACDONALD, PAUL C.....	ESTROGEN PRODUCTION FROM PLASMA PRECURSORS IN HUMANS.....	END	5R01 AM06912-13	86,230
MASTERS, BETTIE S.....	MICROSOMAL ELECTRON TRANSPORT IN LIVER AND HEART.....	BIO	5R01 HL13619-06	45,681
MC CANN, SAMUEL M.....	NEUROHUMORAL CONTROL OF THE ANTERIOR PITUITARY.....	END	5R01 AM10073-01	65,644
MC CANN, SAMUEL M.....	NEURAL CONTROL OF GONADOTROPIN SECRETION.....	REB	3R01 HD05151-04S1	6,660
MC CANN, SAMUEL M.....	NEURAL CONTROL OF GONADOTROPIN SECRETION.....	REB	5R01 HD05151-05	88,707
MITCHELL, JERE H.....	HUMAN ADAPTATION TO ENVIRONMENTAL AND EXERCISE STRESS.....	HEP	3P01 HL06296-14S1	1,296
MITCHELL, JERE H.....	HUMAN ADAPTATION TO ENVIRONMENTAL AND EXERCISE STRESS.....	HEP	5P01 HL06296-15	244,236
MIZE, CHARLES E.....	METABOLIC STUDY OF PEDIATRIC PARENTERAL ALIMENTATION.....	HED	5R01 HD07707-03	55,026
MOSS, ROBERT L.....	NEUROHUMORAL EVENTS IN CELLS ENDING IN MEDIAN EMINENCE.....	END	2R01 NS10434-04	45,746
MOTICKA, EDWARD J.....	CONTROLLING ROLE OF THYMOCYTES IN ANTIBODY SYNTHESIS.....	IMB	5R01 AI11621-02	20,908
NEAVES, WILLIAM B.....	FINE STRUCTURAL ANALYSIS OF ANDROGENIC TUMOR CELLS.....	PTHB	5R01 CA14708-03	38,628
NELSON, JOHN D.....	ENTEROINVASIVE AND ENTEROTOXIGENIC E. COLI DIARRHEAS.....	BM	5R01 AI11396-02	45,427
PAK, CHARLES Y.....	THEORETICAL AND THERAPEUTIC ASPECTS OF CALCIFICATION.....	GMB	5R01 AM16061-04	65,881
PARKEY, ROBERT W.....	IMAGING OF ACUTE MYOCARDIAL INFARCTION.....	RAO	1R01 HL17777-01	80,267
PETERSON, JULIAN A.....	REGULATION OF MICROBIAL OXIDATION REACTIONS.....	BIO	2R01 GM19036-07	49,872
PORTER, JOHN C.....	HYPOTHALAMIC CONTROL OF ANTERIOR PITUITARY SECRETION.....	END	5R01 AM01237-19	77,761
PRAGER, MORTON D.....	STUDY OF TUMOR-INHIBITORY ENZYMES.....	PHRB	5R01 CA11113-07	47,751
PRAGER, MORTON D.....	IMMUNOLOGY OF CHEMICALLY MODIFIED CANCER CELLS.....	PTHB	5R01 CA12089-05	60,624
PRITCHARD, JACK A.....	AN ORGAN COMMUNICATION SYSTEM FOR INITIATION OF LABOR.....	HDPB	5P01 HD08672-02	277,754
RACE, GEORGE J.....	CANCER CENTER SUPPORT GRANT (SPECIALIZED COMMUNITY).....	CAP	1P01 CA17065-01	300,570
RASKIN, PHILIP.....	HYPERLIPIDEMIA AND DIABETES: GLUCOSE LIPID INTERACTIONS.....	MET	1R01 AM18179-01	43,536
REEVES, JOHN P.....	TRANSPORT ACTIVITY DURING LYMPHOCYTE STIMULATION.....	CBY	5R01 GM21423-02	26,742
RICHARDS, E GLEN.....	STUDY OF CONTRACTILE PROTEINS OF HEART MUSCLE.....	BBCB	5R01 HL14938-03	33,937
ROSENBERG, ROGER N.....	EXPERIMENTAL CANCER CHEMOTHERAPY OF NEUROBLASTOMA.....	ET	2R01 CA16379-02	73,574
ROSENBLUM, EUGENE D.....	STAPHYLOCOCCAL AND STAPHYLOPHAGE GENETICS.....	MCB	5R01 AI03093-16	29,359
ROSENFELD, CHARLES R.....	STUDIES OF UTERO-PLACENTAL CIRCULATION.....	HED	1R01 HD08783-01	67,401
SAID, SAMI I.....	SUPPORT FOR CENTER FOR LUNG RESEARCH.....	SRC	5P17 HL14187-05	625,082
SALLEE, VERNERY L.....	INTESTINAL LIPID ABSORPTION.....	PHY	5R01 AM16601-02	32,506
SELDIN, DONALD W.....	REGULATION OF FLUID, ELECTROLYTE, AND ACID-BASE BALANCE.....	HEP	3P01 HL11662-07S1	1,784
SELDIN, DONALD W.....	REGULATION OF FLUID, ELECTROLYTE, AND ACID-BASE BALANCE.....	HEP	5P01 HL11662-08	416,101
SELDIN, DONALD W.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5R01 GM21033-03	551,087
SHADDUCK, JOHN A.....	SUPPORT FOR ANIMAL CARE FACILITY.....	AR	5P06 RR00890-02	70,771
SHADDUCK, JOHN A.....	DIAGNOSIS AND CONTROL OF MAMMALIAN ENCEPHALITIZOONOSIS.....	TMP	5R01 RR00938-02	35,869
SKELTON, C LYNN.....	DEVELOPMENT AND REGRESSION OF CARDIAC HYPERTROPHY.....	CVB	1R01 HL18087-01	34,030

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
SMILEY, JAMES D.....	THE LOCAL IMMUNE RESPONSE IN RHEUMATOID SYNOVITIS.....	ALY	5R01 AM08418-11	25,145
SMITH, THOMAS E.....	KINETICS AND CHEMISTRY OF ALLOSTERIC INTERACTIONS.....	BIO	1R01 GM21650-01	54,607
SOUTHERN, PAUL M. JR.....	ROLE OF AIR POLLUTANTS IN AIRBORNE INFECTIONS.....	TOX	5R01 ES01028-03	18,730
SRERE, PAUL A.....	STRUCTURES AND MECHANISMS OF CITRATE ENZYMES.....	PC	5R01 AM11313-09	38,300
STASTNY, PETER.....	MHC HISTOCOMPATIBILITY ANTIGENS IN HUMAN DISEASES.....	IMB	1R01 AI12563-01	41,691
STREILEIN, J WAYNE.....	STUDIES ON A SPLENIC ROLE IN IMMUNOREGULATION.....	IMB	1R01 AI12720-01	55,008
TAUROG, ALVIN M.....	THYROID FUNCTION AND IODINE METABOLISM.....	END	2R01 AM03612-16	114,890
TEMPLETON, GORDON H.....	CARDIAC MECHANICS MEASURED IN VITRO AND IN VIVO.....	CVA	1R01 HL18104-01	35,084
UHR, JONATHAN W.....	REGULATION OF THE IMMUNE RESPONSE.....	IMB	5R01 AI10967-03	58,611
UHR, JONATHAN W.....	THE BIOLOGY AND BIOCHEMISTRY OF THE LYMPHOCYTE SURFACE.....	SSS	5P01 AI11851-02	366,529
UNGER, ROGER H.....	THE GLUCOREGULATORY PEPTIDE HORMONES.....	END	2R01 AM02700-16	59,690
UYEDA, KOSAKU.....	STRUCTURE AND FUNCTION OF PHOSPHOFRUCTOKINASE.....	BIO	5R01 AM16194-04	27,219
VITETTA, ELLEN S.....	THE BIOLOGY OF CELL SURFACE IGD ON MURINE LYMPHOCYTES.....	ALY	1R01 AI12789-01	54,890
WATERMAN, MICHAEL R.....	ROLE OF CYSTEINE RESIDUES IN HEMOGLOBINS A, F, AND S.....	BBCA	2R01 AM16188-04	23,740
WATSON, JOHN T.....	DEVELOPMENT OF ANITHTROMBOGENIC MEMBRANE OXYGENATORS.....	SGYA	5R01 HL15682-02	49,018
WATSON, JOHN T.....	ORGAN DISTRIBUTION OF CO WITH IA COUNTERPULSATION.....	SGYB	5R01 HL15884-02	32,965
WEISS, GEORGE B.....	MECHANISMS OF DRUG ACTION IN VASCULAR SMOOTH MUSCLE.....	PHRA	2R01 HL14775-04	45,846
WILDENTHAL, C KERN.....	STUDY OF FETAL MOUSE HEARTS IN ORGAN CULTURE.....	CVA	5R01 HL14706-04	68,028
WILDENTHAL, C KERN.....	SYMPOSIUM ON REGULATION OF CARDIAC METABOLISM.....	NSS	1R13 HL18165-01	7,500
WILLERSON, JAMES T.....	INFLUENCE OF MANNITOL ON ISCHEMIC CARDIAC MUSCLE.....	CVB	5R01 HL15522-03	25,412
WILLERSON, JAMES T.....	ISCHEMIC HEART DISEASE CENTER (SCOR).....	SRC	1P17 HL17669-01	570,013
WILSON, JEAN D.....	ACTION OF HORMONES ON PROTEIN AND RNA METABOLISM.....	PC	5R01 AM03892-17	75,983
WILSON, JEAN D.....	STUDY OF CHOLESTEROL METABOLISM.....	MET	5R01 AM08749-11	40,392
WORTHEN, HOWARD G.....	HEAVY METALS AND THE DEVELOPING NEPHRON.....	PTHA	1R01 ES00822-01	28,349
ZIFF, MORRIS.....	IMMUNOLOGIC AND OTHER ASPECTS OF THE RHEUMATIC DISEASES.....	AMP	5P01 AM09989-10	152,495
ZIFF, MORRIS.....	AUTOANTIBODY FORMATION IN RHEUMATOID ARTHRITIS AND SLE.....	GMA	1R01 AM18505-01	50,708
ORGANIZATION TOTAL	121	9,707,497		
<b>DENTON</b>				
<b>NORTH TEXAS STATE UNIVERSITY</b>	<b>ZIP CODE 76203</b>			
GRACY, ROBERT W.....	STRUCTURE AND FUNCTION OF ALDOSE KETOSE ISOMERASES.....	BIO	5R01 AM14638-05	42,407
HARRIS, BEN G.....	STRUCTURE AND PHYSIOLOGICAL FUNCTION OF MALIC ENZYMES.....	BIO	5R01 AI10263-02	28,907
HARRIS, BEN G.....	REGULATION OF METABOLISM IN PARASITIC HELMINTHS.....	BIO	1R01 AI12331-01	17,077
ORGANIZATION TOTAL	3	88,391		
<b>TEXAS WOMAN'S UNIVERSITY</b>	<b>ZIP CODE 76204</b>			
VOSE, GEORGE P.....	EFFECT OF OXYMETHOLONE, F, AND P ON DEMINERALIZED BONE.....	SSS	5R01 AM15979-02	32,882
ORGANIZATION TOTAL	1	32,882		
<b>EDINBURG</b>				
<b>PAN AMERICAN UNIVERSITY</b>	<b>ZIP CODE 78539</b>			
BACA, ERNEST J.....	MINORITY BIOMEDICAL SUPPORT PROGRAM.....	GRS	5S06 RR08038-04	145,218
ORGANIZATION TOTAL	1	145,218		
<b>EL PASO</b>				
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT EL PASO</b>	<b>ZIP CODE 79968</b>			
BRISTOL, JOHN R.....	BIOMEDICAL RESEARCH INTERN PROGRAM.....	GRS	5S06 RR08012-04	106,348
ORGANIZATION TOTAL	1	106,348		
<b>FORT WORTH</b>				
<b>TEXAS CHRISTIAN UNIVERSITY</b>	<b>ZIP CODE 76129</b>			
BARITCH, JOSEPH A.....	SYNAPTIC MEMBRANE STRUCTURE AND FUNCTION.....	BBCA	1R01 NS12485-01	48,663
BARTLETT, PAUL D.....	SMALL MOLECULES IN ORGANIC AND ENVIRONMENTAL CHEMISTRY.....	MCHA	1R01 ES01130-01	99,707
ORGANIZATION TOTAL	2	148,370		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
<b>GALVESTON</b>				
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON</b>		<b>ZIP CODE 77550</b>		
ABELL, CREED W.....	BIOCHEMISTRY OF NORMAL AND LEUKEMIC LYMPHOCYTES.....	HEM	5R01 CA14525-03	64,080
ABELL, CREED W.....	ENZYME THERAPY OF NEOPLASIA.....	ET	5R01 CA14527-02	31,203
BAILEY, BYRON J.....	ELECTRONIC LARYNGEAL PROSTHESIS.....	CCG	1R18 CA17961-01	69,033
BARRANCO, S C.....	DRUG SENSITIVITY OF MAMMALIAN CELLS IN PLATEAU PHASE.....	ET	5R01 CA15397-03	39,535
BLOCKER, TRUMAN G, JR.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00073-13	618,312
BOWMAN, BARBARA H.....	THE BASIC DEFECT IN CYSTIC FIBROSIS: A PROGRAM PROJECT.....	SSS	5P01 AM17040-02	259,325
BOWMAN, BARBARA H.....	GENETIC CONTROL OF THE STRUCTURE OF HUMAN PROTEINS.....	GEN	5R01 HD03321-09	75,807
BRANDT, EDWARD N, JR.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05427-14	200,364
BRINKLEY, B R.....	STUDIES OF MITOSIS IN NORMAL AND NEOPLASTIC CELLS.....	CBY	5R01 CA14675-03	77,424
BRODWICK, MALCOLM S.....	INTERNAL DIVALENT CATIONS AND MEMBRANE PROPERTIES.....	PHY	1R01 NS11963-01A1	50,709
BROWN, ARTHUR M.....	STUDY OF INNERVATION OF CORONARY ARTERIES AND HEART.....	CVB	5R01 HL16657-02	55,627
BROWN, ARTHUR M.....	NERVOUS AND IONIC FACTORS IN SUDDEN CARDIAC DEATH.....	SRC	1R01 HL18798-01	156,574
BROWN, ARTHUR M.....	IONIC MOVEMENTS ACROSS NERVE CELL BODY MEMBRANES.....	SSS	5R01 NS11453-02	56,703
BROWN, ARTHUR M.....	PHOTOTRANSDUCTION IN ALPSYIA NEURONS.....	NEUB	1R01 NS12655-01	51,059
CALLAS, GERALD.....	HYPERTHYROIDISM AND LUNG STRUCTURE AND FUNCTION.....	CVA	3R01 HL16942-01S1	2,321
CHANG, JEFFREY P.....	CELL CYCLE & RESPONSE OF TUMOR CELLS TO CHEMOTHERAPY.....	PTHB	1R01 CA16663-01	74,177
CHEN, JAMES P.....	RADIOIMMUNOASSAY OF HYPER- AND HYPOCOAGULABLE STATES.....	HEM	1R01 HL18742-05	33,725
COGGESHALL, RICHARD E.....	STUDY OF INDIVIDUAL NEURONS IN A SIMPLE NERVOUS SYSTEM.....	NEUB	2R01 NS10161-05	45,684
COSTANZI, JOHN J.....	NEW APPROACHES TO IMMUNOTHERAPY OF CANCER PATIENTS.....	CAP	1P01 CA16964-01	291,479
COULTER, JOE D.....	CENTRAL ORGANIZATION OF SOMATOSENSORY SYSTEMS.....	NEUB	1R01 NS12481-01	53,585
DOWELL, RUSSELL T.....	CARDIAC ENLARGEMENT IN THE NEONATAL HEART.....	CVA	1R01 HL16352-01A1	27,009
EATON, DOUGLAS C.....	IONIC SELECTIVITY OF A NERVE CELL BODY.....	PHY	1R01 NS12008-01	38,373
EWERT, ADAM.....	INTERACTIONS OF BRUGIA MALAYI AND MICROORGANISMS.....	TMP	5R01 AI11871-02	23,814
FEINSTEIN, ROBERT.....	NEURAL CONTROL OF A BRADYCARDIAL REFLEX.....	PHY	1R01 NS12184-01	31,682
FISHMAN, HARVEY M.....	FLUCTUATION PHENOMENA AND ION MOVEMENTS IN MEMBRANES.....	BBCB	5R01 NS11764-03	46,705
FULLER, GERALD M.....	STUDIES ON THE REGULATION OF FIBRINOGEN BIOSYNTHESIS.....	HEM	5R01 HL16445-02	22,603
GAN, JOSE C.....	AI-ANTITRYPSIN: PULMONARY FUNCTION & CHEMICAL STRUCTURE.....	PC	3R01 HL16880-01S1	3,675
GOLDSTEIN, ALLAN L.....	ROLE OF THE THYMUS IN CANCER INDUCTION BY VIRUSES.....	PTHA	5R01 CA14108-04	50,543
GOLDSTEIN, ALLAN L.....	ROLE OF THYMOSIN IN DEVELOPMENTAL AND AGING PROCESSES.....	PTHA	5R01 CA15419-02	129,845
GRANT, J ANDREW.....	COMPLEMENT-INDUCED RELEASE OF INFLAMMATORY MEDIATORS.....	SSS	1R01 AI12621-01	48,657
GROSSMAN, ROBERT G.....	A CENTER FOR THE STUDY OF NERVOUS SYSTEM INJURY.....	NSPA	2P01 NS07377-06A1	218,114
GROSSMAN, ROBERT G.....	PHYSIOLOGY OF NEUROGLIA IN THE BRAIN.....	NEUA	5R01 NS11626-02	52,499
GUEST, M MASON.....	MICROCIRCULATION, HEMOLUIDITY AND HEMOSTASIS.....	CVB	5R01 HL16449-02	67,452
HALL, CHARLES E.....	HORMONAL AND DIETARY MODIFICATION OF NACL TOXICITY.....	GMB	5R01 HL09911-09	39,753
HALL, CHARLES E.....	GENETIC FACTORS IN EXPERIMENTAL HYPERTENSION.....	CVB	5R01 HL15319-03	37,060
HANCOCK, MICHAEL B.....	VISCEROSOMATIC INTERACTION IN THE LUMBAR SPINAL CORD.....	NEUA	5R01 NS09018-06	23,698
HOLUBEK, VIKTOR.....	MECHANISM OF AMINOAZO DYES CARCINOGENESIS.....	ET	5R01 CA14466-03	29,561
HUTCHISON, HARROL T.....	NEURON-GLIA INTERACTION—IN VITRO CHOLINERGIC SYSTEMS.....	NEUB	5R01 NS11354-02	25,481
JENKINS, VERNON K.....	EFFECTS OF THERAPEUTIC RADIATION ON LYMPHOCYTE RESPONSE.....	RAD	5R01 CA13435-03	21,165
KENNY, ALEXANDER D.....	CALCIUM HOMEOSTASIS: ENDOCRINE AND COMPARATIVE ASPECTS.....	GMB	5R01 AM18072-02	65,530
KLEBE, ROBERT J.....	SOMATIC CELL GENETICS OF DIFFERENTIATED PHENOTYPES.....	GEN	5R01 GM21433-02	55,322
KUNZE, DIANA L.....	REFLEX CONTROL OF THE HEART.....	CVA	1R01 HL17601-01	46,170
LEVIN, WILLIAM C.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA03096-18	107,333
LEVIN, WILLIAM C.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	SRC	2P01 CA14621-02	49,946
LEVIN, WILLIAM C.....	CANCER CENTER SUPPORT GRANT (SPECIALIZED).....	CAP	1P01 CA17701-01	317,800
MC ADOO, DAVID J.....	NEW APPROACHES TO 5-HYDROXYTRYPTAMINE METABOLISM.....	PHRA	1R01 NS12567-01	27,586
NANNINGA, LUDDO B.....	PLASMA INHIBITOR OF PROFIBRINOLYSIN ACTIVATION.....	HEM	3R01 HL16443-01S1	2,289
NANNINGA, LUDDO B.....	PLASMA INHIBITOR OF PROFIBRINOLYSIN ACTIVATION.....	HEM	5R01 HL16443-02	52,119
PADULA, RICHARD T.....	FLUID DYNAMICS OF CARDIAC VALVULAR ACTION.....	SGYB	5R01 HL14530-05	29,861
PETERSON, JOHNNY W.....	ANTIBACTERIAL IMMUNITY AGAINST VIBRIO CHOLERAE.....	BM	2R22 AI08518-07	57,681
PINSKER, HAROLD M.....	PLASTIC CHANGES IN PACEMAKER PROPERTIES OF NEURONS.....	NEUB	1R01 NS12223-01	43,706
POFFENBARGER, PHILLIP L.....	ENDOCRINOLOGY OF NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY.....	MET	1R01 AM18513-01	43,705
REMMERS, JOHN E.....	NEURAL MECHANISMS CONTROLLING MOTOR ACT OF BREATHING.....	PHY	7R01 HL18807-01	36,261
RUSSELL, JOHN M.....	CHLORIDE TRANSPORT IN NERVE, MUSCLE AND HEART.....	PHY	1R01 NS11946-01	44,335
SARLES, HARRY E.....	STUDIES OF CELLULAR IMMUNITY.....	IMB	3P01 CA14109-05S1	49,485
SCHNEIDER, ROSE G.....	HEMOGLOBIN VARIANTS IN RELATION TO DISEASE.....	HEM	5R01 AM00780-24	70,939

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
SCURRY, MURPHY T	ROLE OF PARATHYROID HORMONE IN CANCER	GMB	5R01 CA13700-03	27,457
SMITH, LELAND L	DERIVATION OF CARCINOGENIC EPOXIDES	MCHB	1R01 CA17872-01	45,629
SMITH, LELAND L	AIR POLLUTANT-LIPID MEMBRANE INTERACTIONS	MCHB	5R01 ES00944-02	43,320
SMITH, LELAND L	ORIGINS OF ATHEROSCLEROSIS	MET	2R01 HL10160-10	97,119
SMITH, LELAND L	ROLE OF HUMAN BRAIN STEROLS IN AGING AND DISEASE	END	2R01 NS08106-07	35,418
SRIVASTAVA, SATISH K	METABOLIC STUDIES IN NORMAL AND CATARACTOUS LENSES	VISA	7R01 EY01677-01	23,188
SRIVASTAVA, SATISH K	BIOCHEMICAL GENETICS: TAY-SACHS & SANDHOFFS DISEASES	GEN	1R01 GM21655-01	64,253
STONE, HUBERT L	CARDIAC ADAPTATION TO PHYSICAL TRAINING	AFY	2R01 HL14828-04	48,603
THOMPSON, JAMES C	SURGICAL STUDIES IN GASTRIN METABOLISM	SGYB	5R01 AM15241-05	74,832
TRABER, DANIEL L	THE NATURE AND TREATMENT OF ENDOTOXIC SHOCK	SGYA	5R01 HL15737-03	45,202
WILLIAMS, JOHN F, JR	FACTORS ALTERING THE COURSE OF MYOCARDIAL DYSFUNCTION	CVA	3R01 HL13639-04S1	3,655
WILLIS, WILLIAM D, JR	SYNAPTIC CONNECTIONS OF SPINAL CORD NEURONS	NEUA	2R01 NS09743-06	40,487
WILLIS, WILLIAM D, JR	COMPARATIVE NEUROBIOLOGY	NSPB	5P01 NS11255-02	289,719
ORGANIZATION TOTAL	69	5,183,365		
<b>HOUSTON</b>				
<b>BAYLOR COLLEGE OF MEDICINE ZIP CODE 77025</b>				
ALFORD, BOBBY R	STUDY OF OTOPHYSIOLOGY AND OTOPATHOLOGY	CDR	5P01 NS10940-03	207,003
ALFREY, CLARENCE P, JR	EFFECT OF PHYSICAL FORCES ON BLOOD	SGYB	5R01 HL16938-02	60,202
ALLEN, JULIUS C	CAO0 INTERACTION WITH ISOLATED ARTERIAL MEMBRANES	PHY	1R01 HL16947-01	23,971
ANDERSON, ROBERT E	METABOLISM OF VISUAL CELLS	VISB	2R01 EY00871-04	75,499
AUNE, KIRK C	THE RIBOSOME: WHAT HOLDS IT TOGETHER?	BBCA	1R01 GM22244-01	44,876
BAKER, LEE E	GENESIS OF THORACIC ELECTRICAL IMPEDANCE CHANGES	CVA	3R01 HL13114-05S1	7,071
BARNES, EUGENE M, JR	REGULATION OF TRANSPORT IN MAMMALIAN CELLS	MET	5R01 AM17436-02	37,072
BARNES, EUGENE M, JR	MECHANISMS OF SUGAR TRANSPORT IN MEMBRANE VESICLES	MBC	5R01 GM18962-02	27,720
BISHOP, STEPHEN H	ADENINE NUCLEOTIDE MAINTENANCE IN THE ISCHEMIC HEART	BIO	1R01 HL17372-01A1	43,490
BLACK, HOMER S	PHOTOCHEMICAL REACTIONS RELATED TO SKIN CANCER	GMA	2R01 CA13464-04	39,087
BLATTNER, RUSSELL J	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	CLR	5M01 RR00188-11	411,887
BULLOCK, DAVID W	UTERINE PROTEIN REGULATION IN EARLY PREGNANCY	REB	1R01 HD09378-01	52,078
BURZYNSKI, STANISLAW R	ANTINEOPLASTIC PEPTIDES FROM URINE	MCHB	5R01 CA15056-02	62,320
BUSCH, HARRIS	CANCER RESEARCH PROGRAM	CAP	5P01 CA10893-07	1,261,306
BUTEL, JANET S	THE DNA-TRANSFER METHOD OF VIRUS RESCUE	VR	5R01 CA15149-02	44,971
CASKEY, CHARLES T	MECHANISM & SUPPRESSION OF MAMMALIAN PEPTIDE TERMINATION	GEN	5R01 GM18682-04	60,474
CATE, THOMAS R	IMMUNOLOGIC REACTIONS WITH INFLUENZA IN THE LUNG	SSS	1R01 AI13123-01	47,970
CLARK, JAMES H	ESTROGEN RECEPTORS AND REPRODUCTIVE FUNCTIONS	END	5R01 HD08436-03	58,096
COLE, JAMES S	DEVELOPMENT OF A PULSED DOPPLER VELOCITY DETECTOR	CVB	5R01 HL15706-02	22,710
CRANFORD, JERRY L	ROLE OF CORTICOTHALAMIC SYSTEM IN BINAURAL HEARING	CMS	5R01 NS11812-02	23,880
DE BAKEY, MICHAEL E	CARDIOVASCULAR RESEARCH AND TRAINING PROGRAM	HEP	5P01 HL05435-15	615,859
DE BAKEY, MICHAEL E	DEMONSTRATION CENTER FOR HEART AND VESSEL DISEASE	SRC	1P16 HL17269-01	3,005,678
ENTMAN, MARK L	CONTROL OF MYOCARDIAL SARCO-TUBULAR CALCIUM STORES	PHRA	5R01 HL13870-05	31,072
FERNBACH, DONALD J	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	2R10 CA03161-18	124,207
FERNBACH, DONALD J	SPECIAL CHILDREN'S CANCER CENTER PROGRAM	CAP	5P02 CA07357-11	122,251
GLASSER, STANLEY R	BIOLOGICAL ROLE OF UTERINE NUCLEAR ESTROGEN BINDING	REB	1R01 HD08671-01A1	72,188
GOLDSTEIN, MARGARET A	ANALYSIS OF Z BANDS IN HEART BY OPTICAL DIFFRACTION	CVA	1R01 HL17376-01	12,599
GOTTO, ANTONIO M	SUPPORT FOR ATHEROSCLEROSIS RESEARCH CENTER	SRC	5R01 HL14194-05	106,142
HARRISON, GUNYON M	ROLE OF THE CILIOSTATIC FACTOR IN CYSTIC FIBROSIS	SSS	5R01 AM17524-02	44,078
HAZLEWOOD, CARLTON F	PHYSIOLOGICAL ROLE OF WATER IN TISSUES	SSS	5R01 GM20154-03	52,823
HOLLINGER, F BLAINE	CELL-MEDIATED IMMUNITY IN HEPATITIS B	VR	1R01 AI12714-01	42,169
HORNING, EVAN C	RESEARCH IN ANALYTICAL BIOCHEMISTRY FOR HUMAN STUDIES	GMP	5P01 GM13901-09	316,394
HORNING, MARJORIE G	RESEARCH ON TOXICOLOGICAL PROBLEMS OF DRUGS	PTR	5P11 GM16216-07	554,709
HUCKINS, CLAIRE	BEHAVIOR OF STEM CELL SPERMATOGENIA IN RODENT TESTES	REB	5R01 HD07655-02	46,360
IGARASHI, MAKOTO	PARTIAL ABLATION OF VESTIBULAR SYSTEM AND EQUILIBRIUM	CMS	5R01 NS07237-08	45,487
JOSHI, VASUDEV C	COOPERATIVE STUDY OF FATTY ACID SYNTHESIS IN HEART	MET	5R01 HD07516-03	49,538
KAUFMAN, RAYMOND H	IMMUNOLOGICAL PARAMETERS OF INVASIVE CERVICAL CARCINOMA	PTHB	5R01 CA14021-02	37,723
KELLAWAY, PETER	EPILEPSY RESEARCH CENTER	NSPB	1P01 NS11535-01A1	317,495
KENNEDY, JOHN H	STUDY OF MECHANICAL CIRCULATORY SUPPORT	HEP	5P01 HL13330-06	633,524
KIT, SAUL	BIOCHEMICAL ASPECTS OF VIRAL CARCINOGENESIS	VR	5R01 CA06656-13	111,705
KNOX, JOHN M	SEXUALLY TRANSMITTED DISEASES RESEARCH PROGRAM PROJECT	AIRC	1P01 AI12618-01	282,069

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
KOHLER, PETER O.	HORMONE PRODUCTION IN CULTURED ENDOCRINE CELLS	END	5R01 AM17307-02	60,091
LANE, MONTAGUE	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	2R10 CA03392-18	83,866
LEVY, ALLAN H.	COMPUTATIONAL RESEARCH CENTER PROGRAM	SSS	5P07 RR00259-09	45,396
MARTIN, R RUSSELL	FACTORS WHICH MODIFY LEUKOTAXIS OF HUMAN CELLS	BM	5R01 AI12048-02	31,582
MAYOR, HEATHER D.	GROWTH & MATURATION OF ADENOASSOCIATED SATELLITE VIRUSES	VR	5R01 CA14618-02	44,262
MC CLURE, MICHAEL E.	IMMUNOPATHOLOGY OF BREAST CANCER	PTHB	1R01 CA17316-01	43,329
MEANS, ANTHONY R.	BIOLOGY OF THE TESTIS: ACTION OF FSH	REB	5R01 HD07503-03	59,128
MEDINA, DANIEL	CHEMICAL CARCINOGENESIS OF MOUSE MAMMARY GLANDS	ET	5R01 CA11944-05	66,462
MERRILL, JOSEPH M.	GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00134-11	258,502
MERRILL, JOSEPH M.	GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00350-09	494,591
MERRILL, JOSEPH M.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05425-14	255,345
MEYER, JOHN S.	CEREBROVASCULAR RESEARCH PROGRAM	NSPA	5P01 NS09287-05	404,125
MONTGOMERY, JOHN R.	IMMUNOLOGY OF CONGENITAL CYTOMEGALOVIRUS DISEASE	VR	5R01 AI11111-03	43,253
MOSES, ROBB E.	MECHANISMS OF CHROMOSOME REPLICATION	BIO	2R01 GM19122-04	49,236
MUSHER, DANIEL M.	CELL-ASSOCIATED IMMUNITY IN HUMAN SYPHILIS	BM	5R01 AI11305-03	31,744
MUSHER, DANIEL M.	ANTIGONOCOCCAL RESPONSE OF NORMAL AND RESISTANT MEN	EDC	5R01 AI1830-02	21,889
NELSON, THOMAS E.	GLYCOGEN DEBRANCHING ENZYME IN MUSCLE GLYCOGENOLYSIS	SSS	1R01 AM17978-01	35,547
NOALL, MATTHEW W.	MODE OF ACTION OF COLON CARCINOGENS	PTHB	1R01 CA17103-01	38,368
O'MALLEY, BERT W.	POPULATION RESEARCH PROGRAM	HDPR	5P01 HD07495-03	346,099
O'MALLEY, BERT W.	SEX HORMONE RECEPTOR COMPONENTS AND THE CELL GENOME	REB	5R01 HD07857-04	83,050
O'MALLEY, BERT W.	BIOLOGY AND MOLECULAR ACTIONS OF REPRODUCTIVE HORMONES	REB	2R01 HD08188-03	124,190
PECK, ERNEST J, JR.	NEUROENDOCRINE CONTROL OF PITUITARY HORMONE SECRETION	REB	5R01 HD08389-02	58,203
PECK, ERNEST J, JR.	GAMMA-AMINOBUTYRIC ACID RECEPTORS OF THE CEREBELLUM	NEUB	1R01 NS11753-01A1	42,868
RANDERATH, KURT	CHEMICAL STUDIES ON TUMOR AND TUMOR VIRUS RNA	PC	3R01 CA13591-03S1	11,004
RANDERATH, KURT	CHEMICAL STUDIES ON TUMOR AND TUMOR VIRUS RNA	PC	5R01 CA13591-04	65,485
RANDERATH, KURT	SEQUENCE STUDIES ON HUMAN PHENYLALANINE-tRNAs	SSS	1R01 CA16840-01	19,583
REDDY, YERRADHODDI S.	PHOSPHORYLATION OF MYOCARDIAL REGULATORY PROTEIN	SSS	5R01 HL16915-02	18,769
ROSEN, JEFFREY M.	HORMONAL REGULATION OF BREAST CANCER	END	1R01 CA16303-01A1	56,347
ROSSEN, ROGER D.	A ROLE FOR ANTIGLOBULIN IN GLOMERULONEPHRITIS	ALY	5R01 AM17555-02	33,642
ROUFA, DONALD J.	CONTROL OF DNA REPLICATION IN ANIMAL CELLS AND VIRUS	GEN	3R01 GM21070-01S1	9,085
SHARP, JOHN T.	VIRUSES, MYOPLASMAS AND L FORMS IN RHEUMATIC DISEASES	VR	2R01 AM06450-13	46,198
SKINNER, JAMES E.	BRAIN REGULATION OF CARDIAC ARRHYTHMIA	CVB	1R01 HL17907-01	67,389
SMITH, LOUIS C.	LIPID METABOLISM: HUMAN TRIGLYCERIDE LIPASES	MET	5R01 HL15648-03	39,449
STEINER, SHELDON M.	MEMBRANE FUCOSYLGOLIPIDS IN VIRUS-INDUCED CANCERS	VR	5R01 CA16311-02	53,122
SUKI, WADI N.	REGULATION OF H ION SECRETION BY CA ION AND PARATHYROID	GMB	5R01 AM16943-02	32,071
TENG, CHING-SUNG	STUDY OF HORMONE-CONTROLLED SEX-ORGAN DIFFERENTIATION	HED	5R01 HD08218-03	37,805
TRENTIN, JOHN J.	IRRADIATION PROTECTION AND HISTOCOMPATIBILITY	IMB	5R01 CA03367-19	139,287
TRENTIN, JOHN J.	IMMUNOBIOLOGY OF CANCER	CAP	3P01 CA12093-04S1	122,663
TWOMEY, JEREMIAH J.	RHEUMATOID FACTOR AND TUMOR-HOST INTERACTION	IMB	5R01 CA15333-02	16,275
TWOMEY, JEREMIAH J.	TYPE AND REACTIVITY OF CELLS RELEASED FROM LYMPHOMAS	IMB	5R01 CA16108-02	28,555
TWOMEY, JEREMIAH J.	DOES AUTOIMMUNE DYSFUNCTION CAUSE ATROPHIC GASTRITIS	IMB	1R01 CA17732-01	16,256
VON NOORDEN, GUNTER K.	CLINICAL AND LABORATORY STUDIES OF AMBLYOPIA	VIS	5R01 EY01120-03	68,542
WAKIL, SALIH J.	THE METABOLISM AND CONTROL OF FATTY ACIDS	PC	5R01 GM19091-04	110,758
WILSON, JOHN H.	ONCOGENIC MECHANISMS: SV40 AND HOST GENETIC ANALYSIS	VR	5R01 CA15743-02	41,008
WRAY, VIRGINIA P.	THE NUCLEAR ENVELOPE: ITS ROLE IN DRUG RESISTANCE	CBY	1R01 CA17844-01	40,461
YOW, MARTHA D.	GROUP B STREPTOCOCCI: MODES OF TRANSMISSION	BM	1R01 AI12308-01	22,123
ORGANIZATION TOTAL	87	13,052,756		
<b>RICE UNIVERSITY ZIP CODE 77001</b>				
ANSEVIN, KRYSZYNA D.	IN VITRO DEVELOPMENT OF A SUBSTITUTE VASCULAR WALL	SGYA	1R01 HL17527-01	34,004
BULTMANN, HERMANN	SEQUENCE ORGANIZATION IN THE DROSOPHILA GENOME	GEN	1R01 GM21985-01	34,515
CAMPBELL, JAMES W.	NITROGEN METABOLISM IN GASTROPOD MOLLUSCS	TMP	5R01 AI05006-12	31,206
FISHER, FRANK M, JR.	CHEMICAL BASIS OF PARASITISM	TMP	5R01 AI01384-16	37,319
GORDON, W E.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07103-09	40,448
HUANG, HUEY W.	IONIC SELECTIVITY OF IONOPHORETIC ANTIBIOTICS	PHRA	5R01 GM21721-02	18,759
MC INTIRE, LARRY V.	PERFUSION LUNG-ROLE OF TRAUMATIZED LEUKOCYTES	SGBY	1R01 HL17437-01	65,085
OLSON, JOHN S.	STUDY OF ALPHA AND BETA CHAINS IN HEMOGLOBIN	BBCB	5R01 HL16093-02	27,349
PALMER, GRAHAM A.	MOLECULAR MECHANISMS OF BIOLOGICAL REDOX REACTIONS	BBCB	3R01 GM21337-01S1	13,479
QUIOCHO, FLORANTE A.	STRUCTURE AND FUNCTION OF CREATINE KINASE	BBCB	5R01 AM17008-02	37,348
QUIOCHO, FLORANTE A.	STRUCTURE AND FUNCTION OF SUGAR BINDING PROTEINS	BBCB	3R01 GM21371-01S1	9,580



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
RUDOLPH, FREDERICK B.....	REGULATION OF METABOLISM BY PURINE INTERCONVERSIONS.....	BIO	5R01 CA14030-03	25,073
SASS, RONALD L.....	STRUCTURAL AND CHEMICAL STUDY OF TISSUE CALCIFICATION.....	BBCB	1R01 AM18582-01	45,921
SCHROEPFER, GEORGE J, JR.....	INTERMEDIARY METABOLISM OF STEROLS.....	PC	5R01 HL15376-04	128,175
STEWART, CHARLES R.....	REGULATION OF EARLY EVENTS IN PHAGE INFECTION.....	MBC	2R01 GM17968-04A1	36,347
TROELSTRA, ARNE.....	QUANTITATIVE BASIS FOR CLINICAL ELECTRORETINOGRAPHY.....	VISB	1R01 EY00921-01A2	51,653
WALKER, JAMES B.....	STREPTOMYCIN INACTIVATION MECHANISMS IN STREPTOMYCES.....	MBC	1R01 AI12278-01	31,328
WALKER, WILLIAM F.....	CAVITATION PHENOMENA NEAR PROSTHETIC DEVICES.....	SGYB	1R01 HL17821-01	35,131
WENKERT, ERNEST.....	STUDY OF SYNTHESIS OF ALKALOIDS.....	MCHA	2R01 GM21076-02	87,293
ORGANIZATION TOTAL	19 790,013			
<b>TEXAS DEPARTMENT OF MENTAL HEALTH AND MENTAL RETARDATION—TEXAS RESEARCH INST OF MENTAL SCIENCES</b>				<b>ZIP CODE 77025</b>
SCHOOLAR, JOSEPH C.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05628-05	34,880
ORGANIZATION TOTAL	1 34,880			
<b>TEXAS HEART INSTITUTE</b>				<b>ZIP CODE 77025</b>
AKUTSU, TETSUZO.....	ARTIFICIAL HEART AND RELATED PROBLEMS.....	SGYB	7R01 HL18084-01	110,439
ORGANIZATION TOTAL	1 110,439			
<b>TEXAS INSTITUTE FOR REHABILITATION AND RESEARCH</b>				<b>ZIP CODE 77025</b>
FUHRER, MARCUS J.....	STUDIES OF THE HABITUATION PROCESS IN SPINAL MAN.....	NEUB	2R01 NS07755-07	56,214
ORGANIZATION TOTAL	1 56,214			
<b>TEXAS SOUTHERN UNIVERSITY</b>				<b>ZIP CODE 77004</b>
SESSION, JOHN J.....	BIOMEDICAL RESEARCH IMPROVEMENT PROGRAM.....	GRS	5S06 RR08061-04	235,072
ORGANIZATION TOTAL	1 235,072			
<b>UNIVERSITY OF HOUSTON</b>				<b>ZIP CODE 77004</b>
BEAR, JOHN L.....	RHODIUM(II) COMPLEXES AS POTENTIAL ANTICANCER AGENTS.....	MCHB	5R01 CA13817-03	43,018
BECKER, RALPH S.....	SPECTRA, THEORY, AND PHOTOCHEMISTRY OF VISION PIGMENTS.....	BBCA	2R01 EY00875-04	30,613
BECKER, RALPH S.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07147-03	28,686
BUCKLEY, JOSEPH P.....	MECHANISMS IN ANGIOTENSIN INDUCED HYPERTENSION.....	PHRA	1R01 HL17401-01A1	51,284
CAMERON, GUY N.....	ECOLOGICAL REGULATION OF POPULATIONS.....	EXP	1R01 AI12892-01	15,337
EICHBERG, JOSEPH.....	ROLE OF LIPIDS AND LIPOPROTEINS IN MEMBRANES.....	MBY	7R01 NS12493-01	91,766
FRANKLIN, LUTHER E.....	MECHANISMS OF MAMMALIAN FERTILIZATION.....	REB	2R01 HD07346-03	61,075
GRAY, HORACE B, JR.....	HYDRODYNAMICS OF CIRCULAR DNA FORMS.....	BBCA	5R01 CA11761-06	23,902
GRAY, HORACE B, JR.....	NUCLEIC ACID MODIFICATION WITH SPECIFIC ENDOONUCLEASES.....	BBCA	1R01 GM21839-01	24,441
HARWERTH, RONALD S.....	BEHAVIORAL MEASURES OF BINOCULAR VISION.....	VISB	5R01 EY01139-02	25,640
KIMBALL, AUBREY P.....	MECHANISMS OF ACTION OF ANTICANCER DRUGS.....	ET	5R01 CA12327-05	53,841
KOHN, HAROLD L.....	AN IRREVERSIBLE ACID TEST OF BIOCHEMICAL MECHANISMS.....	MCHB	1R01 GM21790-01	28,078
MISTLER-LACHMAN, JANET L.....	CHANGES IN SEMANTIC MEMORY IN MATURITY AND OLD AGE.....	DBR	5R01 HD08980-02	19,888
SPRING, THOMAS G.....	AFFINITY LABELING OF GLYCOLYTIC ENZYMES.....	BIO	5R01 GM20479-02	22,228
SPRING, THOMAS G.....	INTERACTION OF HISTONES WITH NONHISTONE PROTEINS.....	BIO	1R01 GM21508-01	20,271
WELCH, STEVEN C.....	TOTAL SYNTHESIS OF ANTIFUNGAL ANTIBIOTICS.....	MCHA	2R01 GM18759-04	38,382
ORGANIZATION TOTAL	16 578,450			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON</b>				<b>ZIP CODE 77025</b>
BLATTI, STANLEY P.....	MOLECULAR BASIS OF GENE EXPRESSION IN EUKARYOTES.....	BIO	2R01 GM19494-04	45,003
BOYAN, BARBARA D.....	THE ROLE OF LIPOPROTEINS IN MICROBIAL CALCIFICATION.....	DEN	1R23 DE04212-01	11,119
CASTRO, GILBERT A.....	PHYSIOLOGIC BASIS OF IMMUNITY IN TRICHINOSIS.....	TMP	5R01 AI11361-03	22,985
COOL, STEVEN J.....	CORRELATES OF BINOCULAR VISUAL STIMULATION.....	VISB	5R01 EY00907-02	13,141
DE MOSS, JOHN A.....	ASSEMBLY OF A MEMBRANE-BOUND MULTIENTZYME COMPLEX.....	MBC	5R01 GM19511-04	48,410
DOWHAN, WILLIAM.....	STRUCTURE AND FUNCTION OF MEMBRANE PROTEINS.....	BIO	5R01 GM20478-03	29,894
DUPONT, HERBERT L.....	A STUDY OF THE ETIOLOGY OF ACUTE DIARRHEA.....	BM	1R01 AI12699-01	113,362
FIELDS, WILLIAM S.....	CENTRAL REGISTRY-ASPIRIN IN CEREBRAL ISCHEMIA.....	TEC	5R01 HL14340-03	58,082
FRIEDMANN, NAOMI.....	IONIC REGULATION OF GLUCONEOGENESIS.....	MET	5R01 AM18083-02	47,508
GUYNN, ROBERT W.....	EFFECT OF SEIZURE UPON ENERGY METABOLISM IN BRAIN.....	NEUB	5R01 NS11484-02	14,933
GUYNN, ROBERT W.....	REDOX CONTROL OF PTERIN-HYDROXYLASE SYSTEMS IN VIVO.....	BIO	1R01 NS12153-01	22,479
JACOBSON, EUGENE D.....	RELATIONSHIP BETWEEN GASTRIC SECRETION AND BLOOD FLOW.....	PHY	5R01 AM15977-04	34,151
JOHNSON, LEONARD R.....	GI HORMONES ON GROWTH AND METABOLISM OF GI MUCOSA.....	GMA	5R01 AM16505-03	37,840
JOHNSON, LEONARD R.....	ROLE OF FOOD IN THE GUT IN MAINTAINING GI FUNCTION.....	GMA	1R01 AM18164-01	47,386

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
KNUDSON, ALFRED G.	BIOMEDICAL SCIENCES SUPPORT GRANT	NSS	5505 RR07148-02	43,794
LEVY, BARNET M.	THE BIOLOGY OF THE PERIODONTIUM IN HEALTH AND DISEASE	SSS	2P01 DE02232-10	295,562
MACKLER, BRUCE F.	MIF LYMPHOKINE INVOLVEMENT IN PERIODONTAL DISEASE	DEN	1R01 DE04172-01	36,632
MONTGOMERY, EDWARD H.	INITIATORS AND MEDIATORS IN PERIODONTAL DISEASE	DEN	2R01 DE03743-03	30,428
NEI, MASATOSHI	POPULATION DYNAMICS OF MUTANT GENES	GEN	5R01 GM20293-03	26,149
O'NEILL, PEGGY A.	LYMPHOCYTE-MEDIATED CYTOTOXICITY IN PERIODONTAL DISEASE	DEN	1R01 DE04210-01	49,774
ORTEZ, RICHARD A.	CYCLOC AMP AND HISTAMINE HYPERSENSITIVITY	SRC	1R23 HL18250-01	20,492
OVERTURF, MERRILL L.	LIPID VASODEPRESSORS FROM HUMAN TISSUES	PHRA	2R01 HL15171-03	38,088
SHANNON, IRA L.	VARIABILITY IN CHEMICAL CONSTITUENTS OF ORAL FLUIDS	SSS	5R01 DE02934-06	17,978
SHAW, MARGERY W.	STUDY OF HUMAN GENETICS	SSS	3P01 GM19513-03S1	75,594
SIRBASKU, DAVID A.	STEROID HORMONE CONTROL OF TUMOR CELL GROWTH IN VITRO	MBY	5R01 CA14821-03	42,161
SMYTHE, CHEVES M.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05745-03	148,664
STANCEL, GEORGE M.	ESTROGEN CONTROL OF UTERINE GROWTH AND CELL DIVISION	REB	5R01 HD08615-02	31,685
STEINBERGER, ANNA	GONADOTROPIN SECRETION IN LH AND FSH CLONE CULTURES	REB	5R01 HD07664-03	69,516
STEINBERGER, EMIL	GONADOTROPITARY AXIS IN THE RAT	REB	5R01 HD06316-04	53,904
THOMPSON, W. JOSEPH	BIOLOGICAL ROLE OF CYCLIC NUCLEOTIDE PHOSPHODIESTERASE	SSS	5R01 GM21361-02	51,860
TSUCHITANI, CHIYOKO	SINGLE UNIT ANALYSIS OF THE SUPERIOR OLIVARY COMPLEX	CMS	2R01 NS11218-03	48,572
WEISBRODT, NORMAN W.	STUDIES ON THE CONTROL OF ESOPHAGEAL PERISTALSIS	GMA	5R01 AM16305-03	19,653
WOOD, JOE G.	CYTOCHEMICAL INVESTIGATIONS OF ADRENERGIC NEURONS	NEUB	5R01 NS10326-03	57,488
WRIGHT, ANTHONY A.	HUE DISCRIMINATION STUDIES	VISB	1R01 EY01256-01	31,126
WRIGHT, DAVID A.	GENE EXPRESSION IN EMBRYOGENESIS	GEN	5R01 HD07021-03	24,686
ORGANIZATION TOTAL	35	1,760,099		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER ZIP CODE 77025</b>				
ALEXANIAN, RAYMOND	BONE MARROW KINETICS	HEM	5R01 AM09155-11	35,138
ALEXANIAN, RAYMOND	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	2R10 CA03195-18	51,801
ARLINGHAUS, RALPH B.	BIOSYNTHESIS OF ONCORNAVIRUS PROTEINS	VR	1R01 CA15495-01A1	19,835
BODEY, GERALD P.	COOPERATIVE STUDY OF INFECTION IN CANCER PATIENTS	CCI	5R10 CA10042-08	439,521
BOWEN, JAMES M.	IMMUNOLOGY OF ANIMAL AND HUMAN BREAST CARCINOMA	IMB	1R01 CA16789-01	92,374
CLARK, R LEE	CANCER CLINICAL RESEARCH	CAP	5P02 CA05831-14	892,982
CLARK, R LEE	1976 ANNUAL SYMPOSIUM ON FUNDAMENTAL CANCER RESEARCH	NSS	1R13 CA17817-01	34,500
CLARK, R LEE	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05511-13	255,345
COPELAND, MURRAY M.	NATIONAL STUDY OF CANCER OF THE LARGE BOWEL	LB	5R26 CA14140-03	358,015
COPELAND, MURRAY M.	ADMINISTRATION OF NATIONAL LARGE BOWEL CANCER PROJECT	SRC	1R26 CA18688-01	35,244
CORRY, PETER M.	PREFERENTIAL KILLING OF MELANIZED TISSUES	SSS	1R01 CA17891-01	50,595
DMOCHOWSKI, LEON	STUDY OF ONCOGENIC VIRUSES IN PROSTATE CANCER	SRC	5R26 CA15438-03	126,044
DREWINKO, BENJAMIN	BIOLOGICAL STUDIES OF HUMAN MULTIPLE MYELOMA	SSS	1R01 CA16021-01A1	73,352
DREWINKO, BENJAMIN	EFFECT OF ANTITUMOR AGENTS ON COLON CARCINOMA CELLS	SRC	5R26 CA16763-02	36,128
DREWINKO, BENJAMIN	EVALUATION OF THE IMMUNE RESPONSE TO LYMPHOMA ANTIGENS	IMB	1R01 CA17072-01	55,012
EAST, JAMES L.	RELATEDNESS OF RNA TUMOR VIRUSES AND HUMAN NEOPLASIA	PTHB	1R01 CA16781-01	59,426
FLETCHER, GILBERT H.	EVALUATION OF SUPERVOLTAGE THERAPY	RAD	2R01 CA05654-15	68,601
FLETCHER, GILBERT H.	SUPPORT FOR RADIOTHERAPY RESEARCH CENTER	CAP	5P02 CA06294-14	1,208,632
FLETCHER, GILBERT H.	FAST NEUTRON THERAPY WITH TAMVEC CYCLOTRON	CAP	2P01 CA12542-04	1,197,551
FREIREICH, EMIL J.	COOPERATIVE STUDY OF LEUKEMIA PLATELETS	CCI	3R10 CA08859-08S2	122,586
FREIREICH, EMIL J.	SOUTHWEST COOPERATIVE CHEMOTHERAPY GROUP	CCI	3R01 CA10376-07S1	52,592
FREIREICH, EMIL J.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	2R10 CA10376-08	149,842
FREIREICH, EMIL J.	THERAPEUTIC RESEARCH IN CANCER	CAP	2P02 CA11520-06	782,753
FREIREICH, EMIL J.	STUDY OF CANCER CHEMOTHERAPY	CAP	5P02 CA14528-02	206,813
GEHAN, EDMUND A.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	2R10 CA12014-06	278,270
GEHAN, EDMUND A.	DECISION MAKING FOR PATIENTS WITH ACUTE LEUKEMIA	COM	5R01 CA15250-02	169,535
GOTTLIEB, JEFFREY A.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	CCI	2R10 CA10379-07	77,079
GUTTERMAN, JORDAN U.	CELL-ASSOCIATED TUMOR IMMUNITY IN ACUTE LEUKEMIA	ET	5R01 CA15009-02	47,925
HAIDLE, CHARLES W.	INTERACTION OF ANTICANCER DRUGS WITH MACROMOLECULES	ET	2R01 CA13246-04	47,309
HERSH, EVAN M.	IMMUNOLOGICAL ASPECTS OF CANCER PROGNOSIS	ET	5R01 CA14984-02	75,618
HERSH, EVAN M.	INHIBITORS OF NORMAL AND MALIGNANT LYMPHOID TISSUE	ET	5R01 CA14986-02	60,910
HICKEY, ROBERT C.	CORE SUPPORT GRANT—COMPREHENSIVE	CAP	1P01 CA16672-01	1,028,771
HUMPHREY, RONALD M.	RELATIONSHIP OF REPAIR AND RECOVERY IN MAMMALIAN CELLS	RAD	5R01 CA04484-17	110,498
JENSEN, ROY A.	MOLECULAR BASIS FOR ALTERNATIVE ALLOSTERIC PATTERNS	PC	7R01 AM18362-01	9,786
JENSEN, ROY A.	MOLECULAR BASIS FOR ALTERNATIVE ALLOSTERIC PATTERNS	PC	5R01 AM18362-02	45,544
JOHNSON, DOUGLAS E.	ADRIAMYCIN VS VM26-ADRIAMYCIN; METASTATIC BLADDER CANCER	SRC	1R26 CA17972-01A1	67,225

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
LIAU, MING C.....	NUCLEOLAR SYNTHESIS AND MODIFICATION OF RNA.....	PC	5R01 CA15086-02	57,756
MAVLIGHT, GIORA M.....	ADJUVANT IMMUNOTHERAPY TO SURGERY IN COLORECTAL CANCER.....	LB	5R26 CA15458-02	155,623
MEISTRICH, MARVIN L.....	MUTAGENIC ACTION OF CANCER THERAPY ON TESTIS CELLS.....	ET	1R01 CA17364-01	52,286
MILAS, LUKA.....	ANTITUMOR ACTIVITY OF CORYNEBACTERIUM PARVUM.....	BM	1R01 CA17769-01	53,910
MOORE, E COLLEEN.....	BIOSYNTHESIS AND ROLE OF DEOXYNUCLEOTIDES.....	PC	5R01 CA04464-17	62,097
MURGOLA, EMANUEL J.....	MISSENSE SUPPRESSION AND MUTATIONALLY ALTERED TRNAS.....	MBC	1R01 GM21499-01	27,069
NISHIOKA, KENJI.....	SERUM POLYAMINE ANALYSIS IN COLON & RECTAL CARCINOMA.....	SRC	1R26 CA18041-01	68,043
RAO, POTU N.....	PREDICTING RESPONSE OF HUMAN TUMORS TO CANCER DRUGS.....	ET	1R01 CA16480-01	57,884
ROBERSON, DONALD L.....	REGULATION OF MITOCHONDRIAL DNA REPLICATION.....	MBY	1R01 CA16527-01	156,553
SCHLAMOWITZ, MAX.....	CELL MEMBRANE RECEPTORS FOR MATERNOFETAL TRANSFER OF IGG.....	ALY	5R01 HD07752-02	36,396
SHAEFFER, JOSEPH R.....	HEMOGLOBIN SYNTHESIS IN SICKLE CELL TRAIT INDIVIDUALS.....	HEM	1R01 AM17943-01	57,192
SHALEK, ROBERT J.....	COOPERATIVE STUDY OF RADIOLOGICAL PHYSICS.....	CCI	5R10 CA10953-07	211,664
SHAW, CHARLES R.....	HYDROCARBON METABOLIZING ENZYMES AND COLON CANCER.....	SRC	5R26 CA15969-02	35,875
SHAW, CHARLES R.....	GENETIC AND COMPARATIVE STUDIES OF ENZYMES.....	GEN	5R01 GM15597-08	81,207
SINKOVICS, JOSEPH G.....	A COMPARISON OF MURINE AND HUMAN LEUKEMIA.....	VR	3R01 CA07923-09S1	2,403
SUTOW, WATARU W.....	SOUTHWEST ONCOLOGY GROUP (PEDIATRIC).....	CCI	2R10 CA03713-18	113,392
TRUJILLO, JOSE M.....	CYTOGENETIC AND ULTRASTRUCTURAL STUDIES IN LEUKEMIA.....	PTHA	2R01 CA12687-04	157,443
WARD, DARRELL N.....	THE CHEMISTRY OF LUTEINIZING HORMONE.....	END	5R01 AM09801-10	105,825
WITHERS, H RODNEY.....	THE RADIOBIOLOGY OF NORMAL TISSUES.....	SSS	5R01 CA11138-07	89,418
ZIMMERMAN, STUART O.....	BIOMATHEMATICS AND COMPUTING IN A CANCER INSTITUTE.....	COM	5R01 CA11430-10	343,767
ORGANIZATION TOTAL	56			10,348,955
<b>KINGSVILLE</b>				
<b>TEXAS AGRICULTURAL AND INDUSTRIAL UNIVERSITY      ZIP CODE 78363</b>				
PEREZ, JOHN C.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	3S06 RR08107-01S1	8,525
ORGANIZATION TOTAL	1			8,525
<b>LUBBOCK</b>				
<b>TEXAS TECH UNIVERSITY      ZIP CODE 79409</b>				
ANDERSON, JOHN A.....	BIOSYNTHESIS OF CLAVINE ALKALOIDS.....	PC	2R01 GM17830-04	24,088
BARTHOLOMEW, BRUCE A.....	CELL MEMBRANES AND GLYCOSIDASE ACTIVITY IN ARTHRITIS.....	GMA	1R01 AM17670-01	35,876
BEHAL, FRANCIS J.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05773-01	35,584
ELIAS, JEFFREY W.....	AGE AND LATERALITY EFFECTS IN INFORMATION PROCESSING.....	DBR	1R01 AG00237-01	22,530
FRALICK, JOE A.....	ROLE OF THE BACTERIAL MEMBRANE IN DNA REPLICATION.....	MBC	1R01 GM22238-01	40,286
HOLLOWAY, LEWIS S, JR.....	THE ROLE OF THE CENTRAL NERVOUS SYSTEM IN SEPTIC SHOCK.....	CVA	5R01 HL16244-02	16,373
HUGHES, MAYSIE J.....	HISTAMINE ACTION ON HEART MUSCLE AND ITS RECEPTOR.....	CVB	5R01 HL16240-02	20,676
JONES, RANDALL T.....	SEARCH FOR BACTERIOPHAGES ACTIVE ON N. GONORRHOEA.....	BM	5R01 AI12120-02	15,545
LOMBARDINI, JOHN B.....	ENZYMATIC SYNTHESIS AND FUNCTION OF ISETHIONIC ACID.....	BIO	5R01 NS11406-02	20,653
MORROW, KENNETH J, JR.....	CHARACTERIZATION OF MALIGNANT CELL VARIANTS.....	GEN	5R01 CA16207-02	40,363
SONG, PILL-SOON.....	INTERACTIONS BETWEEN DNA AND SKIN-SENSITIZING COUMARINS.....	SSS	2R01 CA13598-04	19,853
STERRETT, PATRICK R.....	CONTRAST MATERIALS AND THE BLOOD-BRAIN BARRIER.....	RAD	1R01 NS11883-01	23,457
ORGANIZATION TOTAL	12			315,284
<b>PRAIRIE VIEW</b>				
<b>TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—PRAIRIE VIEW AGRI. AND MECH. UNIVERSITY      ZIP CODE 77445</b>				
BERRY, JEWEL E.....	TRAINEES AND FACULTY INVOLVED IN BIOMEDICAL RESEARCH.....	GRS	1S06 RR08094-01A1	63,958
ORGANIZATION TOTAL	1			63,958
<b>RICHARDSON</b>				
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT DALLAS      ZIP CODE 75080</b>				
BREMER, HANS.....	IN VITRO SYNTHESIS OF RNA.....	PC	5R01 GM15142-07	64,845
CLOWES, ROYSTON C.....	STUDY OF INFECTIOUS DRUG-RESISTANT ELEMENTS IN PLASMIDS.....	MBC	5R01 AI10468-04	62,456
GRAY, DONALD M.....	SEQUENCE-DEPENDENCE OF POLYNUCLEOTIDE CONFORMATION-II.....	BBCA	2R01 GM19060-04	58,695
GUTZ, HERBERT.....	STUDIES OF THE MECHANISM OF RECOMBINATION IN A YEAST.....	GEN	5R01 GM19849-02	45,629



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
HARM, WALTER F.....	BACTERIA & PHAGE RECOVERY FROM ULTRAVIOLET DAMAGE.....	GEN	2R01 GM12813-09A2	44,562
JAGGER, JOHN.....	ACTION OF NEAR-ULTRAVIOLET RADIATION ON CELLS.....	RAD	5R01 AM14893-05	64,982
LANG, DIMITRIJ.....	ELECTRON MICROSCOPY OF DNA OF CELLS AND VIRUSES.....	GEN	5R01 GM20851-02	55,987
MC CORQUODALE, D JAMES.....	REGULATORY MECHANISMS OF VIRAL INFECTIONS.....	PC	9R01 AI12253-07A1	16,887
PATRICK, MICHAEL H.....	FUNCTION AND REGULATION OF DNA REPAIR PROCESSES.....	BIO	9R01 HD08705-04	48,254
RUPERT, CLAUD S.....	REPAIR OF RADIATION-DAMAGED NUCLEIC ACID.....	RAD	5R01 GM16547-10	83,337
RUPERT, CLAUD S.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07133-06	26,463
SHERRY, ALLAN D.....	LANTHANIDE IONS AS SPECTROSCOPIC RULERS IN CON A.....	BBCA	5R01 AM16947-02	27,513
ORGANIZATION TOTAL	12 599,610			
<b>SAN ANTONIO</b>				
<b>SOUTHWEST FOUNDATION FOR RESEARCH AND EDUCATION ZIP CODE 78284</b>				
GOLAND, MARTIN.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RRO5519-13	94,681
GREENE, NATHAN D.....	ENVIRONMENTAL POLLUTANTS AND ALLERGIC HYPERSENSITIVITY.....	ALY	1R01 ES01153-01	60,958
KALTER, SEYMOUR S.....	REFERENCE CENTER FOR THE STUDY OF VIRUSES.....	PME	5P06 RRO0361-09	279,426
KUNTZ, ROBERT E.....	BLADDER CANCER IN SCHISTOSOMIASIS HAEMATOBIA.....	TMP	3R01 CA13208-03S1	34,670
KUNTZ, ROBERT E.....	BLADDER CANCER TRANSFER, SCHISTOSOMIASIS HAEMATOBIA.....	SRC	5R26 CA16378-02	36,262
KUNTZ, ROBERT E.....	BIOLOGY OF SCHISTOSOMA HAEMATOBIIUM.....	TMP	5R01 CA16972-08	76,887
MAGEE, WAYNE E.....	POXVIRUS BIOCHEMISTRY AND SYNTHETIC VIRUS PARTICLES.....	VR	7R01 AI13106-01	69,229
MYERS, BETTY J.....	LARVAL SCHISTOSOMES: CHARACTERIZATION AND DEVELOPMENT.....	TMP	1R22 AI12401-01	17,148
PURDY, ROBERT H.....	RADIOIMMUNOASSAY OF MELATONIN AND ITS METABOLITES.....	END	1R01 AM18264-01	66,965
ROWLANDS, JOHN R.....	EFFECTS OF POLLUTANTS UPON ALVEOLAR MACROPHAGES.....	PTHA	1R01 ES01162-01	86,495
ORGANIZATION TOTAL	10 822,721			
<b>SOUTHWEST RESEARCH INSTITUTE ZIP CODE 78228</b>				
HALL, C WILLIAM.....	CARDIORESPIRATORY RESPONSES OF INFANTS.....	HED	2R01 HD06951-02	17,996
ORGANIZATION TOTAL	1 17,996			
<b>UNITED COLLEGES OF SAN ANTONIO ZIP CODE 78212</b>				
HEALY, SISTER MARY D.....	MULTIDISCIPLINARY BIOMEDICAL RESEARCH PROGRAM.....	GRS	5S06 RRO8077-03	247,969
ORGANIZATION TOTAL	1 247,969			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT SAN ANTONIO ZIP CODE 78285</b>				
MC KINNEY, THEODORE D.....	SOCIAL ENVIRONMENT AND REPRODUCTION IN SMALL RODENTS.....	EXP	1R01 HD08545-01	33,781
ORGANIZATION TOTAL	1 33,781			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO ZIP CODE 78284</b>				
ADRIAN, ERLE K, JR.....	CELL PROLIFERATION IN INJURED NERVOUS TISSUE.....	CBY	5R01 NS08949-06	27,614
AUST, J BRADLEY.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12275-05	28,254
BISHOP, VERNON S.....	EVALUATION OF LEFT VENTRICULAR FUNCTION.....	CVA	2R01 HL12415-07	69,527
BROOKS, BARBARA A.....	VISUAL PROCESSING DURING EYE MOVEMENT.....	VISB	5R01 EY01497-02	20,838
BRUNELL, PHILIP A.....	STUDIES OF VARICELLA-ZOSTER VIRUS INFECTION.....	VR	1R01 AI12863-01	40,661
CAMERON, IVAN L.....	PARENTERAL NUTRITION AND CANCER THERAPY.....	NTN	1R01 CA16831-01A1	52,931
CARRIER, OLIVER, JR.....	MECHANISM OF DRUG-INDUCED SUPERSENSITIVITY.....	PHRA	1R01 HL17899-01	28,118
DRUTZ, DAVID J.....	RESPONSE OF HUMAN LEUKOCYTES TO NEISSERIA GONORRHOEA.....	IMB	5R01 AI12469-02	60,914
EARLEY, LAURENCE E.....	PHYSIOLOGY AND PATHOPHYSIOLOGY OF KIDNEY FUNCTION.....	AMP	5P01 AM17387-02	241,063
ELBEIN, ALAN D.....	PROTEIN: POLYANION BINDING; A MODEL FOR ATHEROSCLEROSIS.....	PC	1R01 HL17302-01	44,107
ELBEIN, ALAN D.....	COMPLEX CARBOHYDRATES; STRUCTURE, FUNCTION, SYNTHESIS.....	PC	1R01 HL17783-01	30,530
GOLDSMITH, RALPH S.....	VITAMIN D METABOLISM IN MAN.....	GMB	7R01 AM18349-01	34,530
GOLDSMITH, RALPH S.....	VITAMIN D METABOLISM IN MAN.....	GMB	5R01 AM18349-02	44,961
HODGSON, BARRIE J.....	OVIDUCTAL TRANSPORT OF PREIMPLANTATION EMBRYOS.....	REB	1R01 HD09339-01	32,000
HORWITZ, LAWRENCE D.....	STUDY OF LEFT VENTRICULAR FUNCTION DURING EXERCISE.....	CVB	2R01 HL16656-02	88,605
HOUSTON, MARSHALL L.....	ULTRASTRUCTURE OF THE DEVELOPING BABOON PLACENTA.....	HED	1R01 HD09151-01	21,884
JOHANSON, WALDEMAR G, JR.....	DETERMINANTS OF LUNG BACTERIAL CLEARANCE.....	PTHA	1R01 HL17890-01	56,394
KEENAN, ROY W.....	THE METABOLISM AND FUNCTION OF THE POLYPRENOLS.....	BIO	1R01 AM17897-01	30,408
KNIKER, WILLIAM T.....	IMMUNOLOGIC ASPECTS OF CANCER AND INFECTION IN PRIMATES.....	PTHB	3R01 CA15842-01S1	8,210
LEVINSON, CHARLES.....	PHOSPHATE TRANSPORT AND METABOLISM IN CARCINOMA CELLS.....	PHY	2R01 CA10917-07	31,852
MARTIN, JOSEPH E.....	HORMONAL MECHANISMS IN HUMAN ENDOMETRIAL CARCINOMA.....	PTHB	5R01 CA13427-03	28,561

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>TEXAS—Continued</b>				
MASORO, EDWARD J.....	AN APPROACH TO THE BIOCHEMICAL BASIS OF AGING.....	NTN	1R01 AG00166-01	91,071
MASORO, EDWARD J.....	PHYSIOLOGIC REGULATION OF LIPID METABOLISM.....	MBY	5R01 AM17476-02	38,036
MC GILL, HENRY C, JR.....	EXPERIMENTAL ATHEROSCLEROSIS IN BABOONS.....	HEP	5P01 HL15914-02	445,730
MC GUIRE, WILLIAM L.....	MECHANISM OF HORMONAL CONTROL OF MAMMARY CARCINOMA.....	PTHB	2R01 CA11378-06	93,751
NISHIMURA, JONATHAN S.....	MECHANISM OF ACTION OF SUCCINIC THIOKINASE.....	PBC	2R01 GM17534-05A1	52,676
NORTON, J B, JR.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05654-08	146,292
RENNELS, EDWARD G.....	IMMUNOCYTOLOGIC STUDIES ON PITUITARY GONADOTROPHINS.....	END	2R01 AM12583-07	39,930
SEARS, DAVID A.....	STUDIES OF ERYTHROCYTE AND PLATELET MEMBRANE PROTEIN.....	HEM	1R01 AM17137-01A1	39,920
SHEPHERD, ALBERT P, JR.....	EXTRINSIC CONTROL OF INTESTINAL MICROCIRCULATION.....	CVA	1R01 HL18080-01	43,382
STAVINOHA, WILLIAM B.....	LABILE METABOLITES, TRANSMITTERS IN THE HEART CYCLE.....	CVB	1R01 HL17480-01	65,025
STEIN, JAY H.....	MECHANISM OF SODIUM RETENTION IN EDEMATOUS STATES.....	GMB	7R01 AM18485-01	17,875
STEIN, JAY H.....	MECHANISM OF SODIUM RETENTION IN EDEMATOUS STATES.....	GMB	2R01 AM18485-02	113,259
URBAN, ERNEST.....	STIMULATION AND MECHANISMS OF INTESTINAL TRANSPORT.....	GMA	5R01 AM16840-02	42,282
WEISMAN, ROBERT A.....	ENCYSTMENT IN FREE-LIVING, INVASIVE AMOEBAS.....	TMP	5R01 AI10241-05	39,071
WESER, ELLIOT.....	INTESTINAL RESECTION AND MUCOSAL METABOLISM.....	GMA	3R01 AM12484-06S1	21,801
WILLIAMS, VICK F.....	ULTRASTRUCTURAL ASPECTS OF INJURED CEREBRAL CORTEX.....	NEUA	2R01 NS09693-05	20,825
WINBORN, WILLIAM B.....	ELECTRON MICROSCOPIC STUDIES OF PARIETAL CELLS.....	PTHB	2R01 AM12950-07	42,073
WOEBER, KENNETH A.....	FACTORS REGULATING THYROID HORMONE METABOLISM.....	END	1R01 AM17825-01	66,960
ORGANIZATION TOTAL	39	2,441,921		
<b>TEMPLE</b>				
SCOTT AND WHITE MEMORIAL HOSPITAL      ZIP CODE 76501				
BONNET, JOHN D.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA10187-07	34,337
COULTER, JOHN B, II.....	MEASUREMENT OF INSULIN IN AQUEOUS AND VITREOUS OF RABBIT..	VISA	2R01 EY00404-05	33,790
ORGANIZATION TOTAL	2	68,127		
STATE TOTAL	563	50,643,889		
<b>UTAH</b>				
<b>LOGAN</b>				
UTAH STATE HIGHER EDUCATION SYSTEM—UTAH STATE UNIVERSITY      ZIP CODE 84322				
BOEKER, ELIZABETH A.....	HISTAMINE BIOSYNTHESIS.....	BIO	7R01 GM22546-01	19,528
EMERY, THOMAS F.....	MICROBIAL METABOLISM OF HYDROXYLAMINO COMPOUNDS.....	BIO	5R01 AI09580-05	38,828
LANGERMAN, NEAL R.....	THERMODYNAMIC STUDIES OF PROTEIN REACTIONS, LUCIFERASE.....	BBCA	1R01 GM22049-01	46,027
LANGERMAN, NEAL R.....	THERMODYNAMIC STUDIES OF NUCLEOTIDE SYNTHESIS.....	BBCA	7R01 GM22676-01	15,750
OLSEN, RICHARD K.....	SYNTHESIS OF EPIDITHIOPIPERAZINEDIONE ANTIBIOTICS.....	MCHA	5R01 AI11978-02	24,169
OLSEN, RICHARD K.....	THE SYNTHESIS OF QUINOXALINE ANTIBIOTICS.....	MCHA	5R01 CA10653-08	25,280
PETERSON, DEAN F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07093-09	19,658
SPENCE, JACK T.....	THE FUNCTION OF MOLYBDENUM IN BIOLOGICAL SYSTEMS.....	MCHB	5R01 GM08347-15	34,811
YOUSSEF, NABIL N.....	DEVELOPMENT OF MAMMALIAN COCCIDIA IN CULTURED CELLS.....	TMP	5R01 AI07488-09	33,935
ORGANIZATION TOTAL	9	257,986		
<b>OGDEN</b>				
OGDEN RESEARCH FOUNDATION      ZIP CODE 84403				
WILLIAMS, C BASIL.....	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE.....	TEC	3R01 HL11377-08S1	7,049
ORGANIZATION TOTAL	1	7,049		
<b>PROVO</b>				
BRIGHAM YOUNG UNIVERSITY      ZIP CODE 84602				
ANDERSEN, FERRON L.....	EPIDEMIOLOGY OF ECHINOCOCCOSIS.....	EDC	2R01 AI10588-04	53,308
DONALDSON, DAVID M.....	PHAGOCYTE MIGRATION AND BACTERICIDAL ACTIVITY IN BLOOD.....	BM	5R01 AI01171-18	26,604
GUBLER, CLARK J.....	PHYSIOLOGICAL FUNCTIONS AND METABOLISM OF THIAMINE.....	NTN	3R01 AM02448-16S1	15,954

**Table 2.— NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>UTAH—Continued</b>				
GUBLER, CLARK J.....	BIOCHEMICAL BASES OF BRANCHED-CHAIN KETOACIDURIA.....	MET	5R01 AM16897-03	27,611
JOHNSON, F BRENT.....	MOLECULAR INTERRELATIONSHIPS AMONG AAV PROTEINS.....	VR	5R01 AI11325-03	37,177
SAGERS, RICHARD D.....	ENZYMES AND COFACTORS RELATED TO GLYCINE METABOLISM.....	BIO	5R01 GM20778-06	44,289
ORGANIZATION TOTAL	6 204,943			
<b>SALT LAKE CITY</b>				
<b>LATTER-DAY SAINTS HOSPITAL SYSTEM—LATTER-DAY SAINTS HOSPITAL ZIP CODE 84143</b>				
ALTMAN, STANLEY J.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12273-05	24,565
PRYOR, T ALLAN.....	COMPUTER CONTROLLED TWO DIMENSIONAL ECHOCARDIOGRAPHY.....	RAD	5R01 HL16487-02	15,780
SKOLNICK, MARK H.....	CANCER INCIDENCE AND RISK FACTORS BY KINSHIP.....	EDC	1R01 CA16573-01	173,776
ORGANIZATION TOTAL	3 214,121			
<b>LATTER-DAY SAINTS HOSPITAL SYSTEM—PRIMARY CHILDREN'S MEDICAL CENTER ZIP CODE 84103</b>				
VEASY, L GEORGE.....	THERMODILUTION FOR MONITORING SHUNTS IN NEONATES.....	CVB	5R01 HL16234-02	42,875
ORGANIZATION TOTAL	1 42,875			
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH ZIP CODE 84112</b>				
ABILDOSKOV, J A.....	CARDIAC ELECTROPHYSIOLOGY.....	HEP	5P01 HL13480-05	341,336
ABILDOSKOV, J A.....	DEFINITION OF HIGH RISK CARDIAC STATES.....	SRC	1R01 HL18788-01	36,675
ATHENS, JOHN W.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	CCI	2R10 CA13238-04	75,908
ATHENS, JOHN W.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA18013-01	104,468
BENTRUDE, WESLEY G.....	GEOMETRIES OF C-AMP AND CYCLOPHOSPHAMIDE ANALOGS.....	MCHB	2R01 CA11045-07	73,964
BOEHM, ROBERT F.....	DEVELOPMENT OF NEW PROCESSES FOR PREVENTIVE DENTISTRY.....	DEN	2R01 DE03554-03	60,736
BROOM, ARTHUR D.....	PYRIDOPYRIMIDINES AS ANTITUMOR AGENTS.....	MCHA	2R01 CA12823-04A1	31,747
BROWN, HAROLD M.....	TRANSDUCTION MECHANISM OF PHOTORECEPTORS.....	VISB	3R01 EY00762-03S1	15,301
BROWN, HAROLD M.....	TRANSDUCTION MECHANISM OF PHOTORECEPTORS.....	VISB	5R01 EY00762-04	71,972
BURGESS, MARY J.....	BASIC AND CLINICAL STUDIES OF THE ST-T DEFLECTION.....	CVB	2R01 HL12611-02	74,756
BURKE, JOHN P.....	CONTROL OF HOSPITAL-ACQUIRED URINARY TRACT INFECTIONS.....	BM	5R01 AI11950-02	38,109
CAPECCHI, MARIO R.....	THE CONTROL, ASSEMBLY AND TERMINATION OF PROTEINS.....	PC	5R01 GM21168-02	64,017
CARROLL, DANA.....	DEVELOPMENTAL REGULATION OF SPECIFIC EUKARYOTIC GENES.....	GEN	1R01 GM22232-01	60,163
CARTWRIGHT, GEORGE E.....	INVESTIGATIONS IN HEMATOLOGY.....	AMP	5P01 AM04489-15	294,823
CASIENS, SHERWOOD R.....	BACTERIOPHAGE P22 ASSEMBLY AND ITS GENETIC CONTROL.....	GEN	1R01 GM21975-01	85,941
COHEN, ARTHUR M.....	LYSOSOMES AND CANCER CHEMOTHERAPY-INDUCED CELL DEATH.....	ET	1R01 CA16492-01	35,921
COLE, BARRY C.....	MYCOPLASMA-CELL INTERACTION AND INTERFERON INDUCTION.....	BM	5R01 AI12103-02	45,302
COLE, BARRY C.....	ROLE OF MYCOPLASMAS IN ANIMAL AND HUMAN DISEASE.....	BM	2R01 AM02255-17	50,396
CUELLAR, ORLANDO.....	MEIOSIS IN PARTHENOGENETIC VERTEBRATES.....	CBY	1R01 GM19533-01	25,781
DE WITT, CHARLES W.....	COMPARISON OF HISTOCOMPATIBILITY ANTIGENS.....	ALY	5R01 AI11956-02	37,045
DETHLEFSEN, LYLE A.....	OPTIMIZATION OF RADIATION THERAPY.....	RAD	5R01 CA14165-03	95,209
DICKMAN, SHERMAN R.....	STUDY OF MAMMALIAN METHIONINE-RNA SYNTHETASE.....	PC	5R01 AM00803-21	36,268
DIXON, JOHN A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05428-14	223,449
EHRENFELD, ELVERA R.....	VIRUS-HOST CELL INTERACTIONS.....	VR	1R01 AI12387-01	95,169
EPSTEIN, WILLIAM W.....	STUDIES ON FARNESYL PYROPHOSPHATE COUPLING.....	MCHA	5R01 GM20196-03	52,221
EYRING, EDWARD M.....	RELAXATION-RATE STUDY OF BIOCHEMICAL EQUILIBRIA.....	BBCB	5R01 AM06231-13	25,231
EYRING, HENRY.....	EFFECTS OF STRUCTURE ON BIOLOGICAL MECHANISMS.....	BBCA	5R01 GM12862-11	49,376
EYZAGUIRRE, CARLOS E.....	CHOREORECEPTOR ACTIVITY OF THE CAROTID BODY.....	NEUB	5R01 NS05666-11	58,850
EYZAGUIRRE, CARLOS E.....	NEUROPHYSIOLOGY PROGRAM PROJECT (PERIPHERAL AND CNS).....	NSPB	5P01 NS07938-07	373,709
FANG, SEN-MAW.....	PHARMACODYNAMICS OF CONTRACEPTIVE PROGESTINS.....	REB	1R01 HD09420-01	36,330
FIDONE, SALVATORE J.....	CHEMICAL TRANSMISSION IN SENSORY RECEPTORS.....	NEUA	1R01 NS12636-01	35,340
FRANKLIN, MICHAEL R.....	MODIFICATION OF POLYCYCLIC HYDROCARBON CARCINOGENESIS.....	TOX	5R01 CA15760-02	31,587
GELFAND, DONNA M.....	EXPERIMENTS ON CHILDREN'S CHARITY.....	DBR	5R01 HD06914-03	42,276
GIDDINGS, J CALVIN.....	BIOMEDICAL SEPARATIONS: OPTIMIZATION AND NEW METHODS.....	MCHB	2R01 GM10851-18A1	87,257
GLASGOW, LOWELL A.....	ROLE OF INTERFERON IN HOST-RESISTANCE TO VIRAL INFECTION.....	VR	5R01 AI10217-05	60,891
GRANT, DAVID M.....	CARBON-13 MAGNETIC RESONANCE-METHODS AND THEORY.....	BBCB	5R01 GM08521-15	76,684
GRANT, DAVID M.....	REGIONAL RESEARCH FACILITY IN NMR.....	BBCB	2P07 RR00574-04	146,447
GREENFIELD, HARVEY S.....	FLOW ANALYSES FOR HEART VALVES AND VASCULAR SYSTEMS.....	SGVB	3R01 HL12202-06S1	30,026
GROW, RICHARD W.....	REAL-TIME CONVERSION OF THERMAL TO VISIBLE PICTURES.....	RAD	5R01 GM19864-02	50,246
GURNEY, THEODORE, JR.....	CONTROL OF PROTEIN SYNTHESIS IN CELL CULTURE.....	MBY	7R01 CA17504-01	45,547
HIBBS, JOHN B, JR.....	ROLE OF MACROPHAGE IN RESISTANCE TO CANCER.....	BM	5R01 CA14045-03	27,389



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>UTAH—Continued</b>				
HIBBS, JOHN B. JR.	HOST RESISTANT TO CANCER	IMB	5R01 CA15811-02	55,368
HILL, HARRY R.	HUMAN NEUTROPHIL REGULATION BY CYCLIC NUCLEOTIDES	BM	1R01 AM18354-01	46,317
HUANG, WAI M.	STUDIES ON T4 DNA REPLICATION	SSS	1R01 GM21960-01	57,320
JOHNSON, CURTIS C.	CONTINUOUS OXYGEN CONSUMPTION BIOINSTRUMENTATION	CVA	1R01 GM22390-01	45,220
JOHNSON, CURTIS C.	BIOINSTRUMENTATION FOR NEONATAL CRITICAL CARE	HED	5R01 HD08537-02	46,546
KIM, SUNG W.	INITIAL EVENTS IN THROMBUS FORMATION ON SURFACES	SGYB	1R01 HL17623-01	39,266
KOLFF, WILLEM J.	STUDY OF CARDIAC-ASSIST DEVICES AND ARTIFICIAL HEARTS	HEP	5P01 HL13738-04	617,728
KRALIOS, FANY A.	FUNCTIONAL SYMPATHETIC DEVELOPMENT IN NEONATAL HEARTS	HED	1R01 HL17367-01	45,809
KRIPKE, BERNARD R.	STUDY OF ORGANIZATION OF THE STRIATE CORTEX	VISB	5R01 EY01316-02	45,352
KUBY, STEPHEN A.	STUDIES ON ADENOSINE TRIPHOSPHATE TRANSPHOSPHORYLASES	BIO	5R01 AM07824-12	59,595
KUEHL, LEROY R.	INTRACELLULAR SITE OF SYNTHESIS OF SPECIFIC ENZYMES	BIO	5R01 GM13864-10	27,901
LAHEY, MARION E.	COOPERATIVE STUDY OF CHILDREN'S CANCER	CCI	2R10 CA10198-08	34,438
LARK, CYNTHIA A.	THE ROLE OF METHYLATION IN DNA REPLICATION AND REPAIR	PC	5R01 GM19703-02	42,172
LARK, KARL G.	CELLULAR REGULATION OF GROWTH AND DNA SYNTHESIS	SSS	5R01 AI10056-05	102,099
LAWRENCE, PAUL J.	CHEMISTRY AND MODE OF ACTION OF PENICILLINS	MBC	5R01 AI09898-05	35,285
LAZARUS, HARRISON M.	EFFECTS OF ORGAN STORAGE ON RENAL RNA METABOLISM	SGYA	2R01 AM16184-04	68,452
LINKER, ALFRED	STRUCTURE AND FUNCTION OF MUCOPOLYSACCHARIDES	PC	5R01 AM13412-15	26,806
MC CLOSKEY, JAMES A.	MASS SPECTROMETRY OF NUCLEIC ACIDS AND THEIR ANALOGS	SSS	1R01 CA18024-01	73,790
MC CLOSKEY, JAMES A.	MASS SPECTROMETRY OF NUCLEIC ACIDS AND THEIR ANALOGS	SSS	1R01 GM21584-01	225,918
MICHL, JOSEF	DIRECTIONAL OPTICAL PROPERTIES OF BIOMOLECULES	BBCA	2R01 GM19450-03	41,954
MICHL, JOSEF	MAGNETIC CIRCULAR DICHROISM OF ORGANIC MOLECULES	BBCA	5R01 GM21153-02	12,266
MILLHOUSE, O EUGENE	STRUCTURAL SUBSTRATES OF HYPOTHALAMIC FUNCTIONS	NEUA	2R01 NS09001-04A1	28,873
MOODY, FRANK G.	MECHANISM OF GASTRIC ACID SECRETION	SSS	5R01 AM16233-04	63,844
NELSON, DON H.	ENDOCRINE INFLUENCES IN DISEASE	END	2R01 AM16005-09	67,916
NICHOLS, WILLIAM K.	HORMONAL REGULATION OF LEUKOCYTE METABOLISM	MET	5R01 AM16330-03	23,084
O'NEILL, FRANK J.	CONTROL OF NUCLEAR EVENTS IN NORMAL & NEOPLASTIC CELLS	MBY	5R01 CA15141-02	29,352
OKUN, LAWRENCE M.	BIOCHEMISTRY AND PHYSIOLOGY OF CULTURED NEURONS	CBY	5R01 NS10615-03	34,359
OLIVERA, BALDOMERO M.	DISCONTINUOUS DNA SYNTHESIS IN VITRO	BIO	5R01 CA12096-05	31,219
PARKINSON, JOHN S.	GENETIC AND MOLECULAR STUDIES OF BACTERIAL BEHAVIOR	MBC	5R01 GM19559-03	50,665
PARMA, DAVID H.	GENETICS OF STRUCTURALLY ALTERED PHAGE-T4 GENOMES	GEN	5R01 AI09943-05	37,883
POULTER, C DALE	NUCLEIC ACIDS CONTAINING ANTITUMOR ANTIMETABOLITES	BBCB	1R01 CA16824-01	36,575
POULTER, C DALE	STEREOCHEMICAL STUDY OF SQUALENE BIOSYNTHESIS	MCHA	5R01 GM19557-02	18,247
POULTER, C DALE	SUBSTRATE ANALOGS FOR TERPENE CONDENSATION REACTIONS	MCHA	3R01 GM21328-01S1	3,396
RENZETTI, ATTILIO D. JR.	MEASUREMENT OF REGIONAL LUNG EXPANSION	CVA	5R01 HL12011-08	69,297
RENZETTI, ATTILIO D. JR.	ROLE OF INFECTION IN EMPHYSEMA	EDC	5R01 HL14703-09	154,686
RIEMENSCHNEIDER, THOMAS A.	CARDIOVASCULAR FUNCTION IN FETAL AND NEONATAL ANIMALS	CVB	5R01 HD06936-03	47,748
RILLING, HANS C.	MECHANISMS AND ENZYMES OF TERPENE BIOSYNTHESIS	PC	5R01 AM13140-15	44,863
ROTI ROTI, JOSEPH L.	RADIATION INDUCED ALTERATIONS OF CHROMOSOMAL PROTEINS	RAD	1R01 CA16465-01	46,764
SAMUELS, LEO T.	STEROID HORMONE METABOLISM AND TUMORGENIC ACTION	END	5R01 CA10935-13	43,556
SAMUELS, LEO T.	STEROID TRANSFER IN NORMAL AND MALIGNANT ENDOCRINE CELLS	END	5R01 CA13291-03	42,088
SANDBERG, LAWRENCE B.	BLOOD VESSEL FORMATION AND DISEASE	PTHA	2R01 HL11963-07	105,747
SCHAFER, SUSAN A.	CELL POPULATIONS COMPETENT TO FORM AND RESORB BONE	GMB	1R23 DE03906-01	9,330
SMITH, CHARLES B.	THE INFECTIOUS ETIOLOGY OF RHEUMATOID ARTHRITIS	VR	2R01 AM13463-06	53,616
SPIKES, JOHN D.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07092-10	59,553
STEINMULLER, DAVID	GRAFT IMMUNOGENICITY AND ITS MODIFICATION	IMB	5R01 AI10824-04	74,859
STENSAAS, LARRY J.	AXON REGENERATION IN THE SPINAL CORD	NEUB	5R01 NS10864-03	36,860
STEWART, J ROBERT	EXPLORATORY STUDIES FOR CANCER NETWORK DEVELOPMENT	SRC	2P01 CA13750-03	121,860
SUMMERS, DONALD F.	COMPOSITION, ASSEMBLY AND REPLICATION OF RNA VIRUSES	VR	1R01 AI12316-01	191,503
SWANSON, JOHN L.	STUDIES ON GONOCOCCUS INFECTION	BM	5R01 AI11073-03	47,503
SWANSON, JOHN L.	STUDIES ON STREPTOCOCCI	BM	5R01 AI11187-03	19,870
SWEAT, FLOYD W.	BIOCHEMICAL STUDY OF LIVER RETICULOENDOTHELIAL CELLS	MBY	1R01 AM18208-01	31,001
SWINYARD, EWART A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05738-04	38,707
TOWNSEND, LEROY B.	THIAZOLO- AND OXAZOLO-(5,4-D) PYRIMIDINE NUCLEOSIDES	MCHA	3R01 CA11147-06S1	9,241
TOWNSEND, LEROY B.	BICYCLIC, PYRIMIDINE-LIKE AND PYRIMIDINE NUCLEOSIDES	MCHA	2R01 CA11147-07	37,150
TOWNSEND, LEROY B.	THE SYNTHESIS OF C-NUCLEOSIDES RELATED TO SHOWDOMYCIN	MCHA	5R01 CA14252-03	26,489
TYLER, FRANK H.	THE STUDY OF METABOLIC AND HEREDITARY DISORDERS	AMP	5P01 AM00002-29	270,131
TYLER, FRANK H.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	CLR	5M01 RR00064-11	469,454
UCHIC, JOHN T.	SYNTHETIC POLYNUCLEOTIDES IN CANCER CHEMOTHERAPY	MCHA	1R01 CA16548-01	39,066
VELICK, SIDNEY F.	THE PROPERTIES AND METABOLISM OF INDIVIDUAL PROTEINS	PC	5R01 AM13115-12	37,550
WARD, BRUCE D.	PHYSIOLOGICAL EFFECT OF EXTRACORPOREAL OXYGENATION	SGYB	5R01 HL16498-02	75,641

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator		Project title	IRG	Grant number	Dollars
<b>UTAH—Continued</b>					
WARNER, HOMER R.....		SUPPORT FOR COMPUTER FACILITY.....	COM	5P07 RR00012-13	160,123
WEST, CHARLES D.....		STEROIDS AND SODIUM BALANCE IN ESSENTIAL HYPERTENSION.....	CVB	5R01 HL13762-05	64,408
WILSON, DANA E.....		LIPOPROTEIN LIPASE AND LIPOPROTEIN REMOVAL MECHANISMS.....	MET	2R01 HL13626-04A1	33,644
WOLSTENHOLME, DAVID R.....		STRUCTURE OF MITOCHONDRIAL AND KINETOPLAST DNA.....	MBY	5R01 GM18375-05	44,404
WOODBURY, DIXON M.....		NEUROPHARMACOLOGY AND NEUROCHEMISTRY PROGRAM RESEARCH.....	NSPA	5P01 NS04553-11	325,776
WOODBURY, J WALTER.....		ION TRANSPORT THRU MEMBRANES AND CELL ACID-BASE STATE.....	PHY	5R01 HL16348-02	43,298
ORGANIZATION TOTAL	107	8,354,664			
<b>WESTMINSTER COLLEGE ZIP CODE 84105</b>					
MILES, DANIEL W.....		MCD STUDY OF TAUTOMERISM OF NUCLEIC ACID BASES.....	BBCA	1R01 GM20765-01	14,000
ORGANIZATION TOTAL	1	14,000			
STATE TOTAL	128	9,095,638			
<b>VERMONT</b>					
<b>BENNINGTON</b>					
<b>PUTNAM MEMORIAL HOSPITAL ZIP CODE 05201</b>					
ELEEM, KAY A.....		REPLICATION CONTROL: NORMAL VS TRANSFORMED HUMAN CELLS....	CBY	1R01 CA17749-01	85,811
TOOLAN, HELENE W.....		VIRUSES AND CANCER: ROLE OF LATENT VIRUSES IN RESISTANCE.....	VR	5R01 CA07826-10	103,637
TOOLAN, HELENE W.....		GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05725-02	25,591
ORGANIZATION TOTAL	3	215,039			
<b>BURLINGTON</b>					
<b>UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE ZIP CODE 05401</b>					
ALBERTINI, RICHARD J.....		STUDIES OF MUTATION IN DIPLOID HUMAN SOMATIC CELLS.....	GEN	5R01 CA15450-03	59,356
BORAKER, DAVID K.....		OCTODON DEGUS: DEVELOPMENT OF A PEDIGREED COLONY.....	AR	5P06 RR00771-03	14,924
BRAMMER, JIMMIE D.....		VITAMIN A AND PHOTORECEPTION IN INSECT VISUAL SYSTEMS.....	TMP	5R01 EY01150-02	32,964
CLEMMONS, JACKSON J.....		EMBRYONIC RENAL INJURY: A FACTOR IN PULMONARY DISEASE.....	HED	1R01 HD08864-01	97,958
CRAIGHEAD, JOHN E.....		ASSOCIATION OF HUMAN DIABETES WITH VIRUS INFECTION.....	EDC	5R01 AM17268-02	123,472
DANFORTH, ELLIOT, JR.....		EFFECTS OF OVER- AND UNDERNUTRITION ON THYROID HORMONE.....	NTN	1R01 AM18535-01	74,322
DUNN, MICHAEL J.....		STUDY OF CATION TRANSPORT IN ERYTHROCYTES.....	PHY	5R01 AM14264-06	67,425
GIBBONS, WALTER R.....		VOLTAGE CONTROL OF CONTRACTION IN HEART.....	CVA	5R01 HL14614-04	40,400
GREEN, GARETH M.....		CORRELATED STUDIES OF PULMONARY DISEASE.....	SRC	5P17 HL14212-05	483,511
GREEN, GARETH M.....		BRONCHOPULMONARY RESISTANCE TO BACTERIAL INFECTION.....	BM	5R01 HL16990-06	64,151
GREEN, GARETH M.....		VERMONT LUNG CENTER.....	SRC	1P16 HL17292-01	1,275,236
HAINES, CARLETON R.....		COOPERATIVE STUDY OF BREAST CANCER.....	CCI	2R10 CA03764-17	45,040
HALPERN, WILLIAM.....		VISCOELASTIC PROPERTIES OF MUSCLE.....	PHY	5R01 AM17163-02	36,109
HALPERN, WILLIAM.....		MECHANICAL PROPERTIES OF HYPERTENSIVE RAT ARTERIOLES.....	CVB	1R01 HL17335-01	54,023
HAMRELL, BURT B.....		MECHANICAL CHARACTERISTICS OF THE HYPERTENSIVE HEART.....	CVB	5R01 HL16858-02	70,041
HANSON, JOHN S.....		MODERN DIAGNOSTIC APPROACH TO CHRONIC LUNG DISEASES.....	PTHB	5R01 HL14493-03	56,632
HOAGLUND, FRANKLIN T.....		PREVENTION OF SECONDARY OSTEOARTHRITIS OF THE HIP.....	SGYB	5R01 HL14614-02	42,766
JOHNSON, ROBERT J.....		KNEE LIGAMENOUS INJURIES IN SPORTING ACTIVITIES.....	AFY	1R01 AM18499-01	87,731
JONES, JANICE L.....		COUNTERSHOCK CURRENT INJURY TO MYOCARDIAL CELLS.....	CVA	5R01 HL15346-03	61,460
JONES, JANICE L.....		ELECTRICALLY INDUCED CARDIAC EM-HISTOCHEMICAL CHANGES.....	CVA	1R01 HL18327-01	42,474
KAYE, MICHAEL D.....		ESOPHAGEAL MOTILITY IN HEALTH AND CERTAIN DISEASES.....	GMA	7R01 AM18217-01	12,651
KELLEHER, PHILIP C.....		ALPHA-1 FETOPROTEIN IN MAMMALIAN HEPATOMAS AND GROWTH.....	MBY	5R01 HD07136-02	25,862
KELLEHER, PHILIP C.....		ALPHA-FETOPROTEIN IN FETUSES WITH NEURAL TUBE DEFECTS.....	HED	1R01 HD08802-01	57,103
KRAWITT, EDWARD L.....		INTESTINAL CALCIUM TRANSPORT.....	GMA	5R01 AM14686-05	30,326
KUEHNE, MARTIN E.....		TOTAL SYNTHESIS OF INDOLE ALKALOIDS.....	MCHA	2R01 CA12010-13	81,758
KUNIN, ARTHUR S.....		CONTROL FACTORS IN RENAL MITOCHONDRIAL NH3 PRODUCTION.....	GMB	1R01 AM18251-01	62,001
LAMBERT, LLOYD M, JR.....		MAGNETOSONIC IMAGE CONVERTER.....	RAD	3R01 GM20226-01S1	7,860
LAMBERT, LLOYD M, JR.....		DEVELOPMENT OF MAGNETOSONIC IMAGE CONVERTER.....	RAD	5R01 GM20226-02	20,478
LEPESCHKIN, EUGENE.....		T-WAVES AND MYOCARDIAL ELECTROLYTES AND TEMPERATURES.....	CVB	5R01 HL01486-20S1	3,513
LEPESCHKIN, EUGENE.....		QUANTITATIVE STUDY OF T-WAVE MECHANISMS.....	CVB	2R01 HL01486-21A1	78,497

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>VERMONT—Continued</b>				
LUGINBUHL, WILLIAM H.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00109-12	395,321
LUGINBUHL, WILLIAM H.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05429-14	178,000
MACMILLAN, WILLIAM H.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	NSS	5S05 RR07125-06	34,996
MELVILLE, DONALD B.....	BIOSYNTHESIS AND FUNCTION OF THIOLIMIDAZOLES.....	BIO	5R01 GM21232-02	44,884
MEYER, WILLIAM L.....	INNERVATION EFFECTS ON MUSCLE NEUTRAL HYDROLASES.....	NEUB	5R01 NS10105-03	42,620
MOEHRING, THOMAS J.....	MAMMALIAN CELL RESPONSE TO DIPHTHERIA TOXIN.....	MBG	5R01 AM09100-06	36,694
MORELAND, MOREY S.....	MORPHOLOGIC CHANGES AFTER FEMORAL ROTATION OSTEOTOMY.....	AFY	5R01 AM17608-02	17,090
NEWCOMBE, DAVID S.....	ROLE OF CAMP IN CARTILAGE AND SYNOVIAL CELL FUNCTION.....	PHRA	5R01 AM16151-03	39,517
NYBORG, WESLEY L.....	BIOPHYSICAL BASIS FOR THRESHOLDS IN BIO-ULTRASOUND.....	RAD	3R01 GM08209-11S1	5,350
PARSONS, RODNEY L.....	RECEPTOR DESENSITIZATION IN MUSCLE.....	PHY	5R01 NS07740-08	45,193
PARSONS, RODNEY L.....	DESENSITIZATION OF SYMPATHETIC POSTGANGLIONIC NEURONS.....	PHY	1R01 NS12306-01	39,316
PHILLIPS, CHARLES A.....	STUDIES OF A TRANSMISSIBLE AGENT IN CROHN'S DISEASE.....	VR	1R01 AM17837-01	77,188
ROTHSTEIN, HOWARD.....	WOUND HEALING IN LENS EPITHELIUM.....	VISA	5R01 EY00281-11	67,193
RUSH, STANLEY.....	EFFECT OF RESISTIVITY VARIATIONS ON ELECTROCARDIOGRAM.....	CVB	5R01 HL09831-09	57,803
SCHAEFFER, WARREN I.....	STUDIES OF IN VITRO CARCINOGENESIS WITH AFLATOXIN B1.....	ET	3R01 CA12056-03S1	5,328
SCHAEFFER, WARREN I.....	STUDIES OF IN VITRO CARCINOGENESIS WITH AFLATOXIN B1.....	PTHB	2R01 CA12056-04	55,543
SIMS, ETHAN A.....	METABOLIC INTERRELATIONSHIPS OF OBESITY AND DIABETES.....	MET	5R01 AM10254-10	90,214
SMITH, CAROL J.....	HEPATOMA ALPHA FETOPROTEIN: CHEMISTRY AND METABOLISM.....	PTHB	5R01 CA15222-02	45,368
SOYKA, LESTER F.....	ONTOGENETIC STUDIES OF DRUG METABOLISM.....	HED	5R01 HD08708-02	44,254
TANNEN, RICHARD L.....	HYDROGEN ION REGULATION BY THE MAMMALIAN NEPHRON.....	GMB	5R01 AM14225-05	63,244
WEBB, GEORGE D.....	EFFECT OF INSECTICIDES ON CATION TRANSPORT AND ATPASE.....	TOX	5R01 ES00885-02	40,718
WHITEHORN, DAVID.....	RESPONSE OF DORSAL COLUMN NUCLEI TO NATURAL INPUTS.....	NEUA	5R01 NS09472-05	39,949
WOODWORTH, ROBERT C.....	NATURE OF DORSAL BINDING PROTEINS.....	BBCA	5R01 HL06732-14	60,914
WUTHIER, ROY E.....	CALCIFICATION OF BONE AND CARTILAGE.....	GMB	5R01 AM13523-06	88,877
YATES, JEROME W.....	CANCER CARE AND REHABILITATION IN A RURAL SETTING.....	CCG	1R18 CA17868-01	363,652
ORGANIZATION TOTAL	55	5,189,270		
STATE TOTAL	58	5,044,309		
<b>VIRGINIA</b>				
<b>ARLINGTON</b>				
<b>ARCTIC INSTITUTE OF NORTH AMERICA</b>		<b>ZIP CODE 22201</b>		
HOUSTON, CHARLES S.....	HUMAN PHYSIOLOGY AT 17,500 FEET IN MOUNTAIN ENVIRONMENT.....	CVB	5R01 HL14102-04	74,464
ORGANIZATION TOTAL	1	74,464		
<b>BLACKSBURG</b>				
<b>VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY</b>		<b>ZIP CODE 24061</b>		
BUNCE, GEORGE E.....	MAGNESIUM NUTRITION AND PATHOLOGICAL CALCIFICATION.....	GMB	5R01 AM10446-07	29,167
BUNCE, GEORGE E.....	CATARACT FROM A VEGETABLE PROTEIN BASED DIET.....	NTN	5R01 EY01060-05	21,202
CUMMINS, CECIL S.....	TUMOR-INHIBITORY PROPERTY OF ANAEROBIC CORYNEFORMS.....	BM	1R01 CA17790-01	31,150
DILLARD, JOHN G.....	CHEMICAL IONIZATION-METAL-CONTAINING ANTICARCINOGENS.....	MCHB	1R01 CA17119-01	29,850
GODD, IRVING J.....	METHODS OF ESTIMATING STATISTICAL PROBABILITY.....	COM	2R01 GM18770-04	50,594
HUDLICKY, MILOS.....	FLUORINATED AMINO ACIDS AS POTENTIAL CANCEROSTATICS.....	MCHA	3R01 CA11879-03S1	2,504
KINGSTON, DAVID G.....	STUDY OF PLANTS AS TUMOR INHIBITORS.....	MCHB	2R01 CA12831-04	33,135
KIRKPATRICK, ROY L.....	INTERACTIONS OF PCB'S, DENSITY AND NUTRITION.....	TOX	5R01 ES00863-02	34,593
MC NABB, ROGER A.....	THE EXCRETION OF URIC ACID.....	PHY	5R01 AM14991-04	23,850
MOORE, WALTER E.....	STUDY OF ANAEROBIC BACTERIOLOGY.....	GMP	5P01 GM14604-09	293,558
RITCHIE, SANFORD J.....	RELATIONSHIP OF PROTEIN AND ZINC IN GROWING CHILDREN.....	NTN	1R01 HD08764-01A1	25,995
RONY, PETER R.....	TAUTOMERIC CATALYSIS-A MODEL OF ENZYME CATALYSIS.....	MCHA	5R01 GM19913-03	31,665
SCHMIDT, ROBERT R.....	GENE-ENZYME CONTROL IN NORMAL AND CANCER CELLS.....	MBY	5R01 GM19871-03	42,565
SMIBERT, ROBERT M.....	T. PALLIDIUM CULTIVATION AND TREPONEME LIPID STUDIES.....	MBC	1R01 AI12726-01	54,723
TAYLOR, LARRY T.....	MANGANESE-DIOXYGEN COMPLEXES.....	MCHB	1R01 GM21844-01	20,704
WEBB, RYLAND E.....	PESTICIDE RESISTANCE STUDIES.....	TOX	5R01 ES00296-07	19,828
WILKINS, TRACY D.....	BACTERIOPHAGES OF BACTERIOIDES FRAGILIS.....	BM	1R01 AI12137-01	48,142
WILSON, COYT T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07095-08	33,937



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>VIRGINIA—Continued</b>				
WOLFE, JAMES F.....	SYNTHESIS OF NEW CNS AGENTS.....	MCHA	5R01 NS10197-04	29,300
ORGANIZATION TOTAL	19 856,462			
<b>CHARLOTTESVILLE</b>				
<b>UNIVERSITY OF VIRGINIA ZIP CODE 22903</b>				
ACKERS, GARY K.....	MOLECULAR SIEVE CHROMATOGRAPHY OF INTERACTING PROTEIN.....	BBCA	5R01 GM14493-09	47,494
AYERS, CARLOS R.....	STUDY OF RENIN SECRETION IN RENAL VASCULAR HYPERTENSION....	CVB	5R01 HL16044-02	32,981
BARENHOLZ, YEchezkel.....	ROLE OF SPHINGOMYELIN IN BIOMEMBRANES AND BILAYERS.....	BBCB	1R01 HL17576-01	45,180
BARNES, DENNIS W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07094-10	49,914
BEAMS, JESSE W.....	IMPROVEMENT OF MAGNETIC SUSPENSION BALANCES.....	BBCA	2R01 GM19682-03	21,521
BENJAMIN, DAVID C.....	CELLULAR AND STRUCTURAL BASIS OF IMMUNOLOGICAL TOLERANCE.....	ALY	2R01 AI10225-04	47,577
BENZINGER, ROLF H.....	TRANSFECTION OF E. COLI AND ITS APPLICATIONS.....	GEN	5R01 AI08572-08	41,382
BERNE, ROBERT M.....	BLOOD FLOW AND NUCLEOTIDE METABOLISM.....	CVB	5R01 HL10384-09	77,121
BIGGAR, JEANNE C.....	DETERMINANTS: DIFFERENTIALS IN METROPOLITAN MOBILITY.....	POP	2R01 HD06271-03	64,457
BIGGAR, JEANNE C.....	MIGRATION TO SOUTHERN SMSA SUBAREAS.....	POP	1R01 HD07750-01A1	93,865
BILTONEN, RODNEY L.....	THERMODYNAMIC STUDIES OF TRANSFER RIBONUCLEIC ACIDS.....	BBCA	5R01 GM20637-04	57,120
BLIZZARD, ROBERT M.....	STUDIES OF PITUITARY HORMONES AND HYPOPITUITARISM.....	END	5R01 HD08926-02	76,004
BRADBEER, CLIVE.....	STUDIES ON THE TRANSPORT OF VITAMIN B12.....	MCB	2R01 AM12653-07	41,597
BRILL, ARTHUR S.....	ROLE OF WATER IN RESPIRATORY PROTEIN STRUCTURE.....	BBCB	5R01 HL13989-04	48,193
BROOKER, GARY.....	METABOLIC AND HORMONAL CONTROL OF CARDIAC CONTRACTION.....	PHRA	2R01 HL15985-03A1	63,450
BROWN, JAY C.....	ROLE OF THE CELL SURFACE IN CANCER AND DEVELOPMENT.....	CBY	2R01 HD06390-04	40,640
BRYAN, ROBERT F.....	X-RAY DETERMINATIONS OF STRUCTURE OF TUMOR INHIBITORS.....	BBCA	5R01 CA11760-05	58,691
CARDELL, ROBERT R., JR.....	SUBCELLULAR EFFECTS OF METABOLIC HORMONES.....	END	5R01 AM11854-08	47,606
CAREY, ROBERT M.....	ROLE OF GI TRACT IN CONTROL OF EXCRETION OF SODIUM.....	GMA	5R01 AM17523-02	33,407
CURNOW, RANDALL T.....	NEURAL CONTROL OF HEPATIC CARBOHYDRATE METABOLISM.....	MET	1R01 AM18471-01	42,182
DAVIS, JOHN S., IV.....	IMMUNOLOGICAL MECHANISMS IN RHEUMATIC DISEASES.....	GMA	2R01 AM11766-07	99,078
DECK, J DAVID.....	TISSUE ORGANIZATION AND TURNOVER IN THE AORTIC VALVE.....	SGYB	5R01 HL16935-02	23,560
DENT, JAMES.....	HORMONAL ACTION IN AMPHIBIAN SKIN.....	END	5R01 AM16731-03	17,473
DRUCKER, WILLIAM R.....	METABOLIC BASIS FOR HOMEOSTASIS IN SHOCK.....	SGYA	5R01 GM21075-02	50,726
DRUCKER, WILLIAM R.....	GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00847-02	310,324
DRUCKER, WILLIAM R.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05431-14	205,402
DULING, BRIAN R.....	LOCAL REGULATION OF MICROVASCULAR FUNCTION.....	PHY	5R01 HL12792-06	31,452
EBBESSON, SVEN O.....	ORGANIZATION OF THE VERTEBRATE VISUAL SYSTEM.....	VISB	5R01 EY00154-05	41,934
EDWARDS, STEPHEN B.....	PROJECTIONS OF THE MIDBRAIN RETICULAR FORMATION.....	NEUB	5R01 NS11254-02	29,855
EL-MAHOI, ANAS M.....	CONTROL OF MICROSCOPIC AND MACROSCOPIC METASTASIS.....	RAD	5R01 CA13300-03	61,896
EMERSON, CHARLES P., JR.....	SYNTHESIS OF MYOSIN DURING MUSCLE DIFFERENTIATION.....	CBY	5R01 HD07796-03	46,528
EMERSON, SUZANNE U.....	RHADOVIRUS TRANSCRIPTION AND REPLICATION.....	VR	5R01 AI11722-02	36,590
GARRETT, REGINALD H.....	THE ENZYMOLOGY OF NITRATE ASSIMILATION.....	BIO	2R01 GM18955-07	40,488
GEAR, ADRIAN R.....	ROLE OF MITOCHONDRIA IN SURVIVAL & FUNCTION OF PLATELETS.....	HEM	5R01 HL15289-03	33,342
GILLENWATER, JAY Y.....	EPIDEMIOLOGY AND HISTORY OF URINARY TRACT INFECTIONS.....	EDC	5R01 AI10587-03	36,166
GILMAN, ALFRED G.....	REGULATION OF CYCLIC NUCLEOTIDE METABOLISM.....	PHRA	2R01 NS10193-04	90,221
HAHN, JOHN F.....	TACTILE PERIPHERAL NERVE RECORDING AND PSYCHOPHYSICS.....	CMS	5R01 NS09864-05	28,363
HAMNER, CHARLES E., JR.....	OVIDUCT ROLE IN BLASTOCYST DEVELOPMENT.....	REB	2R01 HD06573-04	44,932
HANNA, GEORGE R.....	ASPIRIN IN CEREBRAL ISCHEMIA-JOINT STUDY.....	TEC	5R01 HL14981-03	16,603
HANNA, GEORGE R.....	STROKE ACUTE CARE RESEARCH UNITS.....	NSPA	5P17 NS11093-03	29,946
HARBERT, GUY M., JR.....	STUDIES OF PRIMATE UTERINE PHYSIOLOGY.....	HED	2R01 HD02798-08	57,046
HARRISON, WILLARD W.....	BIOLOGICAL TRACE ANALYSIS BY HOLLOW CATHODE DISCHARGE.....	MCHB	2R01 GM14569-09	47,250
HAYNES, ROBERT C., JR.....	HORMONAL CONTROL OF HEPATIC GLUCONEOGENESIS.....	END	2R01 AM14347-07	75,682
HEIMER, LENNART.....	BASAL FOREBRAIN ORGANIZATION.....	NEUB	5R01 NS10972-03	69,810
HORSLEY, JOHN S., III.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17990-01	91,721
HOWARDS, STUART S.....	MICROPUNCTURE STUDIES OF TESTIS AND EPIDIDYMS.....	REB	1R01 HD09490-01	64,724
HUANG, CHING-HSIEN.....	STUDY OF PHOSPHOLIPID VESICLES AS MODEL FOR MEMBRANES.....	BBCB	3R01 GM17452-04S1	8,115
HUNT, DONALD F.....	STUDY OF CARCINOGENIC AND ANTICARCINOGENIC COMPOUNDS.....	MCHB	1R01 GM22039-01	85,901
JOHNSON, LEWIS B.....	COMPOSITION CHANGES IN DENTAL ALLOY.....	DEN	5R01 DE03965-02	52,894
KADNER, ROBERT J.....	GENE AMPLIFICATION AND MEMBRANE PROTEINS.....	MCB	2R01 GM19078-04	41,000
KEEFE, J RICHARD.....	CYTOLGY OF RETINAL DIFFERENTIATION.....	VISB	2R01 EY00545-05	52,513
KHALIFAH, RAJA G.....	HUMAN ERYTHROCYTE CARBONIC ANHYDRASE.....	BIO	1R01 HL17963-01	37,163
KOCHHAR, DEVENDRA M.....	MECHANISMS UNDERLYING EXPERIMENTAL TERATOGENESIS.....	HED	5R01 HD06550-04	76,403

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>VIRGINIA—Continued</b>				
KOMP, DIANE M.	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP.	CCI	3R10 CA08223-08S1	10,560
KOMP, DIANE M.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.	CCI	2R10 CA08223-09	82,565
KONIGSBERG, IRWIN R.	CONTROL OF PROLIFERATION DURING MUSCLE DEVELOPMENT.	MBY	5R01 HD07083-03	88,663
KRETSINGER, ROBERT H.	STRUCTURE AND FUNCTION OF TROPONIN AND ITS HOMOLOGUES.	BBCB	2R01 AM16253-04	46,084
KRETSINGER, ROBERT H.	RIBOSOMAL PROTEIN CRYSTALS, GROWTH AND X-RAY.	BBCB	5R01 GM21129-02	17,385
KROVETZ, LOUIS J.	PHYSICAL DETECTION OF EARLY ATHEROSCLEROSIS.	SRC	1R01 HL17996-01	23,038
KROVETZ, LOUIS J.	PHYSICAL DETECTION OF EARLY ATHEROSCLEROSIS.	SRC	5R01 HL17996-02	119,321
KUEHL, W. MICHAEL.	CONTROL OF IMMUNOGLOBULIN SYNTHESIS IN MYELOMA CELLS.	ALY	1R01 AI12525-01	57,780
KUPCHAN, S. MORRIS.	CHEMISTRY OF TUMOR-INHIBITORY NATURAL PRODUCTS.	MCHB	2R01 CA11718-06	91,193
KUPCHAN, S. MORRIS.	CHEMISTRY OF BIOLOGICALLY ACTIVE NATURAL PRODUCTS.	MCHB	5R01 CA12059-06	55,974
KUTCHAI, HOWARD C.	SUGAR TRANSPORT IN DEVELOPING HEART CELLS.	MET	5R01 HL15716-03	26,533
KUTCHAI, HOWARD C.	LIMITING FACTORS IN OXYGEN UPTAKE IN THE LUNG.	PHY	1R01 HL17967-01	23,533
LANGDON, ROBERT G.	STRUCTURE OF BIOLOGICAL MEMBRANES.	PC	3R01 GM19319-03S1	4,479
LANGMAN, JAN.	ABNORMAL DEVELOPMENT OF THE NERVOUS SYSTEM.	HED	5R01 NS06188-10	87,568
LARNER, JOSEPH.	CHEMICAL MECHANISM OF ACTION OF INSULIN.	MET	3R01 AM14334-06S1	2,888
LARNER, JOSEPH.	CHEMICAL MECHANISM OF ACTION OF INSULIN.	MET	2R01 AM14334-07	113,756
LARNER, JOSEPH.	DIABETES-ENDOCRINOLOGY RESEARCH CENTER.	SSS	3P17 AM17042-01S1	116,330
LAWLESS, KENNETH R.	ELECTRON OPTICAL STUDIES OF CARIOUS LESIONS IN ENAMEL.	DEN	5R01 DE03959-02	48,590
LEE, JEN-SHIH.	HOLOGRAPHY FOR DIAGNOSING PERIPHERAL VASCULAR DISEASE.	RAD	1R01 HL17320-01	69,919
LEE, LIAN-PIN M.	PHYSICAL AND CHEMICAL STUDY OF PULMONARY SURFACTANT.	YIP	1R23 HL17108-01A1	45,929
LOGAN, WILLIAM J.	NEUROTRANSMITTER INFLUENCE OF NEUROGLIA AND GLIOSIS.	NEUA	5R01 NS11793-02	40,835
LONGNECKER, DAVID E.	ANESTHETICS AND MICROVASCULAR RESPONSE TO HEMORRHAGE.	SGYA	5R01 HL17091-02	36,801
LOONEY, WILLIAM B.	MODIFICATION OF TUMOR GROWTH IN HEPATOMAS BY RADIATION.	RAD	5R01 CA12758-03	56,921
LOONEY, WILLIAM B.	EFFECTS OF CHEMOTHERAPEUTIC AGENTS ON HEPATOMAS.	ET	3R01 CA13102-02S1	37,860
LOONEY, WILLIAM B.	EFFECTS OF CHEMOTHERAPEUTIC AGENTS ON HEPATOMAS.	ET	5R01 CA13102-03	80,313
MACLEOD, ROBERT M.	INFLUENCE OF HORMONES ON TISSUE METABOLISM.	END	5R01 CA07535-12	72,171
MACLEOD, ROBERT M.	THYROID AND PITUITARY FUNCTION IN BREAST CANCER.	END	1R01 CA16664-01A1	56,320
MANDELL, GERALD L.	MECHANISMS OF LEUKOCYTE BACTERICIDAL ACTIVITY.	BM	5R01 AI09504-06	33,480
MARTIN, R. BRUCE.	STUDY OF MODE OF REACTION OF ANTITUMOR COMPLEXES.	BBCB	5R01 CA14832-03	39,014
MC LAUGHLIN, ROBERT E.	IMPROVEMENTS IN THE USE OF ACRYLIC CEMENT.	DEN	5R01 AM15240-02	54,640
MELLON, DE FOREST, JR.	EVOLUTIONARY MODIFICATION OF A MOTOR CONTROL SYSTEM.	PHY	2R01 NS04989-12A1	30,099
MURAD, FERID.	FACTORS WHICH REGULATE THE ACTION OF CYCLIC AMP.	PHRA	5R01 AM15316-05	76,299
MURPHY, RICHARD A.	THE CONTRACTILE SYSTEM OF VASCULAR SMOOTH MUSCLE.	PHY	2R01 HL14547-07	35,997
NOLAN, STANTON P.	FUNCTION AND STRUCTURE OF SEMILUNAR VALVES.	SGYB	1R01 HL17969-01	68,026
OLIPHANT, EDWARD E.	MECHANISM OF INDUCTION OF THE SPERM ACROSOME REACTION.	REB	1R01 HD08573-01	37,250
PARSONS, J. THOMAS.	AVIAN RNA TUMOR VIRUS REPLICATION AND TRANSCRIPTION.	VR	1R01 CA16553-01	65,770
RALL, THEODORE W.	CYCLIC AMP IN ACTIONS OF NEUROHORMONES.	PHRA	1R01 NS12764-01	89,899
REBHUN, LIONEL I.	REGULATION OF SPINDLE FORMATION IN DEVELOPING EGGS.	CBY	5R01 GM16865-06	30,375
REBHUN, LIONEL I.	CYCLIC AMP AND CONTROL OF DIVISION IN MAMMALIAN CELLS.	CBY	5R01 GM20523-02	49,041
RINALDUCCI, EDWARD J.	PHOTOPIC MECHANISMS OF DARK ADAPTATION.	VISB	2R01 EY00353-07A2	18,473
RITCHIE, WALLACE P. JR.	MUCOSAL RESISTANCE AS A FACTOR IN GASTRIC DISEASES.	SGYB	5R01 AM17591-02	26,722
RODEWALD, RICHARD D.	TRANSCELLULAR TRANSPORT OF IMMUNOGLOBULINS.	ALY	1R01 AI11937-01A1	45,667
RODIG, OSCAR R.	MECHANISM OF HYDROGENASE AND DEHYDROGENASE ACTION.	MCHA	5R01 AM12523-06	20,855
RUFFNER, B. WINFRED, JR.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.	CCI	2R10 CA13643-03	44,626
SCHNAITMAN, CARL A.	CELL SURFACE MEMBRANE PROTEINS.	MBY	2R01 GM18006-04	49,989
SCHWARTZ, EDITH R.	METABOLISM OF OSTEOARTHRITIC ARTICULAR CARTILAGE.	SGYB	5R01 AM16606-03	70,267
SHERMAN, S. MURRAY.	EFFECTS OF VISUAL DEPRIVATION ON THE VISUAL SYSTEM.	VISB	1R01 EY01565-01	57,553
STEINBERG, WILLIAM.	REGULATION OF BACTERIAL SPORE DEVELOPMENT.	MBC	2R01 GM19236-04	43,361
STEWART, OSWALD.	POST-LESION PLASTICITY OF NEURONAL CIRCUITRY.	NEUB	1R01 NS12333-01	37,441
SUNDBERG, RICHARD J.	METHODS OF SYNTHESIS OF INDOLES AND INDOLE ALKALOIDS.	MCHB	5R01 CA12940-03	35,579
SUNDBERG, RICHARD J.	BIOLOGICAL SIGNIFICANCE OF CARBON-LIGATED IMIDAZOLES.	MCHB	1R01 GM21572-01	18,610
SWANSON, RONALD F.	MITOCHONDRIAL BIOGENESIS DURING OOGENESIS.	MBY	5R01 GM18103-03	27,231
TAYLOR, RONALD P.	QUANTITATIVE STUDIES OF BIOLOGICAL RECOGNITION.	ALY	5R01 AI11735-02	20,252
THOMPSON, THOMAS E.	A STUDY OF PHOSPHOLIPID BILAYER MEMBRANES.	BBCB	5R01 GM14628-10	46,300
VILLAR-PALASI, CARLOS.	CONTROL AND PHYSIOLOGICAL ACTIONS OF PROTEIN KINASES.	MET	2R01 AM14436-04	45,320
VOLK, WESLEY A.	CELL WALL LIPOPOLYSACCHARIDE STRUCTURE AND SYNTHESIS.	MBC	5R01 AM08388-10	23,999
WAGNER, ROBERT R.	CELLULAR RESISTANCE TO VIRAL INFECTION.	VR	5R01 AI11112-09	126,260
WATKINS, DAVID W., III.	VISUAL DEPRIVATION: EFFECTS ON STRIATE NEURONS.	VISB	1R23 EY01492-01	7,450
WAWNER, FRANKLIN E.	A STUDY OF REINFORCEMENTS IN DENTAL COMPOSITES.	DEN	1R01 DE03925-01A1	57,835
WINKLER, HERBERT H.	PERMEABILITY OF THE EPIDERMIC TYPHUS RICKETTSIA.	VR	5R01 AI10164-05	55,428

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>VIRGINIA—Continued</b>				
WINKLER, HERBERT H.....	SUGAR AND SUGAR-PHOSPHATE TRANSPORT.....	MBC	5R01 AM13449-06	25,927
WRIGHT, THEODORE R.....	ONTOGENY AND THE GENETIC CONTROL OF ENZYME ACTIVITY.....	GEN	5R01 GM19242-04	64,032
WRIGHT, THEODORE R.....	THE GENETIC CONTROL OF MYOGENESIS IN DROSOPHILA.....	SSS	5R01 GM20607-02	43,020
YAMAZAKI, RUSSELL K.....	HORMONAL REGULATION OF MITOCHONDRIAL FUNCTION.....	BIO	1R01 AM17849-01	41,215
ORGANIZATION TOTAL	117 6,242,094			
<b>HAMPTON</b>				
<b>HAMPTON INSTITUTE ZIP CODE 23668</b>				
BONNER, ROBERT D.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08074-04	69,716
ORGANIZATION TOTAL	1 69,716			
<b>NORFOLK</b>				
<b>EASTERN VIRGINIA MEDICAL AUTHORITY ZIP CODE 23501</b>				
ROSATO, FRANCIS E.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA18067-01	69,454
ORGANIZATION TOTAL	1 69,454			
<b>EASTERN VIRGINIA MEDICAL AUTHORITY—EASTERN VIRGINIA MEDICAL SCHOOL ZIP CODE 23507</b>				
CONRAD, MARGARET C.....	COMPENSATORY MECHANISMS IN PERIPHERAL VESSELS.....	CVA	5R01 HL16766-02	18,990
GOURLEY, DESMOND R.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05771-01	16,527
MC COMBS, ROBERT M.....	ROLE OF ONCORNAVIRUSES IN CARCINOMA OF THE PROSTATE.....	SRC	5R26 CA16540-02	54,756
ORGANIZATION TOTAL	3 90,273			
<b>NORFOLK STATE COLLEGE ZIP CODE 23504</b>				
BEMPONG, MAXWELL A.....	INHIBITORS OF DNA AND RNA AND RENIN IN HUMAN TISSUES.....	GRS	5S06 RR08033-04	93,489
ORGANIZATION TOTAL	1 93,489			
<b>OLD DOMINION UNIVERSITY ZIP CODE 23508</b>				
SONENSHINE, DANIEL E.....	SEX PHEROMONES IN DISEASE TRANSMITTING TICKS.....	TMP	5R01 AI10986-03	14,218
ORGANIZATION TOTAL	1 14,218			
<b>PETERSBURG</b>				
<b>VIRGINIA STATE COLLEGE ZIP CODE 23803</b>				
NEWKIRK, ROBERT F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08090-03	102,492
ORGANIZATION TOTAL	1 102,492			
<b>RICHMOND</b>				
<b>VIRGINIA COMMONWEALTH UNIVERSITY ZIP CODE 23284</b>				
ALLEN, EDWARD P.....	EFFECT OF SEX STEROIDS ON GINGIVAL GLYCOSAMINOGLYCANS.....	DEN	5R23 DE03866-02	10,031
BANKS, WILLIAM L, JR.....	EFFECTS OF HYDRAZINES ON RNA AND POLYAMINES.....	TOX	5R01 CA15615-02	29,574
BLACKARD, WILLIAM G.....	PATHOGENESIS OF DIABETES MELLITUS.....	MET	7R01 AM18903-01	46,733
BOGDANOVE, EMANUEL M.....	QUALITATIVE FACTORS IN ANTERIOR PITUITARY REGULATION.....	END	5R01 AM17545-02	20,705
BOGDANOVE, EMANUEL M.....	ENDOCRINE-INFLUENCING CENTERS IN THE HYPOTHALAMUS.....	REB	5R01 HD06600-04	82,927
BOND, GUY H.....	(MAGNESIUM-CALCIUM)-ATPASE IN RED CELLS.....	HEM	1R01 AM17190-01A1	22,779
BOOTS, MARVIN R.....	BIOCHEMICAL STUDY OF HYPOCHOLESTEROLEMIC AGENTS.....	MCHB	5R01 HL11768-07	35,870
BRADLEY, STERLING G.....	DRUG RESISTANCE IN PATHOGENIC MYCOBACTERIA.....	BM	5R01 AI09098-07	26,460
BRADLEY, STERLING G.....	AMELIORATION OF ENHANCED TOXICITY OF ANTITUMOR DRUGS.....	ET	5R01 CA13715-03	33,905
BRIGGS, F NORMAN.....	SUBCELLULAR MECHANISMS IN CARDIAC CONTRACTILITY.....	PHY	3R01 HL14538-04S1	4,510
BRYANT, CLAUDE P.....	ALTERATIONS IN GBM METABOLISM IN RENAL ALLOGRAFTS.....	SGYB	1R01 AM18272-01	73,737
CAMPBELL, GARY T.....	CYTOARCHITECTURE IN BRAIN-PITUITARY CONTROL SYSTEMS.....	END	1R01 AM18300-01	15,628
CARCHMAN, RICHARD A.....	MECHANISM OF ACTION OF CANNABINOIDS IN NEOPLASIA.....	ET	1R01 CA17840-01	33,567
CLAMANN, H PETER.....	MOTOR POOL ORGANIZATION IN SYNERGISTIC INTERACTION.....	NEUB	1R01 NS11677-01A1	51,010
COHEN, IRWIN K.....	COLLAGEN METABOLISM IN WOUND REPAIR AND KELOID.....	SGYB	5R01 GM20298-02	53,332
COLLINS, JAMES M.....	DNA SYNTHESIS: STRUCTURAL CHANGES DURING THE CELL CYCLE.....	PC	1R01 CA17177-01	42,695
CONKLIN, PETER M.....	MATURATION OF CNS-PITUITARY THYROID FUNCTION.....	END	5R01 AM14713-05	32,672
CORLEY, KARL C, JR.....	BEHAVIORAL STRESS AND CARDIOMYOPATHY.....	CVB	5R01 HL13454-05	39,527



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>VIRGINIA—Continued</b>				
DE PAOLA, DOMINICK P.	THE ROLE OF GLYCOPROTEINS IN PALATAL FUSION	HED	1R23 DE04148-01	12,228
DE VRIES, GEORGE H.	CHEMISTRY AND METABOLISM OF CNS MYELIN-FREE AXONS	NEUA	5R01 NS10821-03	26,289
DIBAGGIO, JOHN A.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05724-04	39,835
DIEGELMANN, ROBERT F.	COLLAGEN METABOLISM IN BREAST CANCER	GMA	1R01 CA17297-01	34,555
DUMA, RICHARD J.	A STUDY OF AMEBIC MENINGOENCEPHALITIS	TMP	5R01 AI09251-06	51,488
EANES, ROBERT Z.	METABOLISM OF BRANCHED-CHAIN ALPHA-KETO ACIDS	MET	5R01 AM16784-03	36,470
FALLON, HAROLD J.	HEPATIC LIPID METABOLISM, CONTROL AND ETHANOL EFFECTS	GMA	7R01 AM18067-01	67,340
FALLON, HAROLD J.	REGULATION OF ADIPOSE LIPID METABOLISM	MET	7R01 AM18068-01	38,494
FORD, GEORGE D.	REGULATION OF VASCULAR SMOOTH MUSCLE CONTRACTILITY	PHY	5R01 HL15829-02	26,758
FRIEDMAN, MARVIN A.	EFFECTS OF PIPERONYL BUTOXIDE ON CHEMICAL CARCINOGENESIS	TOX	5R01 ES00701-02	63,976
GOLDBERG, STEPHEN J.	INPUTS TO ABDUCENS NEURONS: AN INTRACELLULAR STUDY	VISB	1R23 EY01442-01	7,500
GOLDMAN, I DAVID	UPTAKE AND MEMBRANE TRANSPORT OF ANTICANCER AGENTS	ET	5R01 CA16906-02	80,594
GOODALE, FAIRFIELD	STUDIES ON THE PATHOGENESIS OF FEVER	PTHA	5P01 AI10601-02	44,630
HARD, RICHARD C, JR	EARLY IMMUNODEFICIENCY AND LATE ONCOGENESIS	PTHB	5R01 CA16112-02	45,753
HUF, ERNST G.	METABOLISM AND ACTIVE ION TRANSPORT IN SKIN	PHY	2R01 GM03545-21	21,298
HYLLEMON, PHILLIP B.	BILE SALT CATABOLISM REGULATION BY INTESTINAL BACTERIA	PC	1R01 CA17747-01	21,946
JAMES, G WATSON, III	COOPERATIVE STUDY OF ACUTE LEUKEMIA	CCI	2R10 CA03735-18	71,028
JESSE, ROBERT W	CANCER ANSWERS AND RIGHTS INFORMATION SYSTEM	CCG	1R18 CA17797-01	60,944
JOHNSON, JAMES H.	NEUROELECTRIC CORRELATES OF GONADOTROPIN RELEASE	NEUA	5R01 HD07749-03	32,879
KAPLAN, ALAN M.	THE CELLULAR BASIS OF ACQUIRED IMMUNOLOGIC TOLERANCE	IMB	1R01 AI11561-01	39,534
KONTZ, WARREN W, JR	EVALUATION AND MANAGEMENT OF CARCINOMA OF THE BLADDER	BP	5R26 CA15492-02	45,734
LAWRENCE, WALTER, JR	DEVELOPMENT OF A COMPREHENSIVE CANCER CENTER	SRC	2P01 CA12922-03	79,433
LAWRENCE, WALTER, JR	CANCER CENTER CORE SUPPORT	CAP	1P01 CA16059-01A1	292,705
LAWRENCE, WALTER, JR	BIOCHEMICAL CORRELATES WITH HUMAN BREAST CANCER	SGYB	1R01 CA17116-01	67,204
LEE, HYUNG M.	CLINICAL STUDIES OF RABBIT ANTITHYMOCYTE GLOBULIN	IMB	1R01 AI12822-01	80,975
LIBERTI, JOSEPH P.	PURIFICATION AND BIOCHEMISTRY OF SULFATION FACTOR	PC	5R01 AM16457-02	34,373
LORIA, ROGER M.	VASCULAR INJURY AND ATHEROSCLEROSIS	PTHA	1R01 HL18152-01	61,712
MACRINA, FRANCIS L.	STUDIES ON THE GENETICS OF ORAL MICROFLORA	MBC	1R23 DE04224-01	12,304
MAKHLOUF, GABRIEL M.	SECRETION AND HORMONAL INTEGRATION IN EXOCRINE ORGANS	GMA	3R01 AM15564-03S1	23,173
MAKHLOUF, GABRIEL M.	HORMONAL INTEGRATION OF EXOCRINE AND ENDOCRINE ORGANS	GMA	2R01 AM15564-04	82,204
MARDON, DAVID N.	TREATMENT OF CANDIDA INFECTIONS IN LEUKEMIC MICE	BM	5R01 CA16627-02	28,048
MCMONCRE, CHARLES W	INVESTIGATION OF SPECIFIC ANTIGENS IN PROSTATIC CANCER	SRC	5R26 CA15499-02	29,140
MOORE, EDWARD W.	STUDIES WITH ION-EXCHANGE CALCIUM ELECTRODES	GMR	5R01 AM15393-05	68,908
MORAHAN, PAGE S.	IMMUNOADIUVANTS FOR HERPES SIMPLEX	VR	5R01 CA16193-02	38,607
MULLINAX, PERRY F.	IMMUNOGLOBULINS, DIABETES AND MICROVASCULAR DISEASE	ALY	1R01 AM18901-01	71,713
MUNSON, ALBERT E.	CANNABINOIDS AS ANTINEOPLASTIC DRUGS	ET	1R01 CA17551-01	38,770
PATTERSON, JOHN L, JR.	PATHOPHYSIOLOGY/MANAGEMENT OF RESPIRATORY INSUFFICIENCY	SRC	5P17 HL14251-05	223,143
PEARSE, WARREN H.	GENERAL CLINICAL RESEARCH CENTER	CLR	2M01 RR00065-13A1	531,508
PEARSE, WARREN H.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05430-14	188,130
PITTMAN, ROLAND N.	VASODILATION AND MICROVASCULAR OXYGEN DELIVERY	PHY	1R01 HL18292-01	38,679
PRICE, STEVEN	MOLECULAR ASPECTS OF TASTE	CMS	5R01 DE03018-06	27,511
RANNEY, RICHARD R.	GINGIVAL ANTIBODY & PLAQUE ANTIGENS IN PERIODONTITIS	DEN	2R01 DE03671-03	61,222
REGELSON, WILLIAM	RES FUNCTION, TUMOR INDUCTION, AND GROWTH	ET	5R01 CA10537-06	69,266
REGELSON, WILLIAM	COOPERATIVE STUDY OF ONCOLOGY	CCI	2R10 CA10572-07	52,986
RIDGWAY, ELLIS B.	CALCIUM MOVEMENTS DURING E-C COUPLING IN MUSCLE	PHY	3R01 NS10919-02S1	290
RIDGWAY, ELLIS B.	CALCIUM MOVEMENTS DURING E-C COUPLING IN MUSCLE	PHY	5R01 NS10919-03	18,928
ROTHBERG, SIMON	BIOCHEMICAL REGULATION IN EPIDERMIS	GMA	5R01 AM15285-04	49,904
RUBIN, RONALD P.	THE ACTION OF CALCIUM ON SECRETION	PHRA	5R01 AM18066-02	25,433
SABET, SOHAIR F.	COLICINS AND MEMBRANE FUNCTIONS	MBC	1R01 AI12761-01	31,398
SCOTT, ROBERT B.	DIFFERENTIATION AND FUNCTION OF HEMATOPOIETIC CELLS	HEM	5R01 CA08482-10	47,416
SHELTON, KEITH R.	NONHISTONE PROTEINS OF REACTIVATED ERYTHROCYTE NUCLEI	BIO	5R01 CA15923-02	31,443
STILL, WILLIAM J.	PATHOGENESIS OF ATHEROSCLEROSIS	PTHA	5R01 HL09622-11	39,044
SWELL, LEON	MECHANISM OF GALLSTONE FORMATION IN MAN	GMA	5R01 AM14668-05	51,158
TIEW, JOHN G.	REGULATION OF THE IMMUNE RESPONSE BY PERSISTING ANTIGEN	IMB	5R01 AI11101-03	30,019
THOMAS, JUDITH M.	ACTION OF RABBIT ANTIHUMAN THYMOCYTE GLOBULIN	SSS	1R01 AI12586-01	61,719
WALLER, MARION V.	SERUM AGGLUTINATORS OF ENZYME ALTERED GAMMA GLOBULINS	ALY	5R01 AM04549-13	34,458
WAMPLER, GALEN L.	FETAL ISOENZYMES AS BIOLOGIC MARKERS	ET	5R01 CA16073-02	39,825
WATLINGTON, CHARLES O.	NA TRANSPORT REGULATION BY C1 PERMEABILITY ALTERATION	GMA	5R01 AM16564-03	44,035
WEAVER, WARREN E.	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05697-06	33,937
ORGANIZATION TOTAL	77	4,265,656		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>VIRGINIA—Continued</b>				
<b>VIRGINIA UNION UNIVERSITY</b>	<b>ZIP CODE 23220</b>			
BRADLEY, WALTER O.....	SUPPORT FOR STUDY OF PESTICIDES.....	GRS	5S06 RR08007-04	47,679
ORGANIZATION TOTAL	1 47,679			
<b>WILLIAMSBURG</b>				
<b>COLLEGE OF WILLIAM AND MARY</b>	<b>ZIP CODE 23185</b>			
BRADLEY, ERIC L.....	ENDOCRINE BASES OF REPRODUCTIVE INHIBITION IN DEER MICE.....	REB	1R01 HD08906-01	49,876
ORGANIZATION TOTAL	1 49,876			
STATE TOTAL	224 11,975,873			
<b>WASHINGTON</b>				
<b>BELLINGHAM</b>				
<b>WESTERN WASHINGTON STATE COLLEGE</b>	<b>ZIP CODE 98225</b>			
KLEINKNECHT, RONALD A.....	THE ASSESSMENT AND TREATMENT OF FEAR OF DENTISTRY.....	PCR	1R01 DE04014-01A1	80,712
ORGANIZATION TOTAL	1 80,712			
<b>OLYMPIA</b>				
<b>EVERGREEN STATE COLLEGE</b>	<b>ZIP CODE 98505</b>			
KUTTER, ELIZABETH M.....	DNA REGULATION DURING T4 INFECTION OF E. COLI.....	VR	5R01 AI11577-03	29,644
ORGANIZATION TOTAL	1 29,644			
<b>PULLMAN</b>				
<b>WASHINGTON STATE UNIVERSITY</b>	<b>ZIP CODE 99163</b>			
AMEND, JAMES F.....	PHYSIOLOGY AND BEHAVIOR IN CAGED RANDOM SOURCE ANIMALS...	AR	3R01 RR00902-01S1	9,989
BANKS, KEITH L.....	MODEL OF BLOCKING CELL-MEDIATED TUMOR IMMUNITY.....	ALY	1R01 CA17075-01	35,611
BURGER, DIETER.....	CHROMATOGRAPHICAL STUDY OF VIRUS ANTIBODY COMPLEXES.....	VR	5R01 AI11714-02	26,682
BUSTAD, LEO K.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05465-13	56,931
CARLSON, JAMES R.....	TRYPTOPHAN-INDUCED PULMONARY EMPHYSEMA.....	CVA	2R01 HL13645-08	63,362
CRAWFORD, TIMOTHY B.....	STUDIES OF VIRAL PERSISTENCE IN EQUINE INFECTIOUS ANEMIA.....	VR	2R01 AI07471-09	68,906
GOLLNICK, PHILIP D.....	FAT AND CHOLESTEROL METABOLIC ADAPTATIONS TO EXERCISE.....	AFY	5R01 HL08262-12	40,722
HADWIGER, LEE A.....	DRUGS AND GENE ACTIVATION.....	GEN	3R01 GM18483-04S1	1,000
HEGREBERG, GERALD A.....	AGING AND COLLAGEN EHLERS-DANLOS SYNDROME.....	PTHA	1R01 AG00030-01	67,118
HENSON, JAMES B.....	PATHOMECHANISMS OF PERSISTENT AD VIRUS INFECTION.....	PTHA	5R01 AI06477-14	45,432
HOSICK, HOWARD L.....	CULTURE OF PRENEOPLASTIC MAMMARY CELLS OF THE MOUSE.....	PTHB	5R01 CA16392-02	30,688
KIRSCHNER, LEONARD B.....	MECHANISM OF ACTIVE ION MOVEMENT ACROSS MEMBRANES.....	PHY	2R01 GM04254-20	52,147
KOLATTUKUDY, P E.....	BIOCHEMISTRY OF NATURAL PRODUCTS.....	MCHB	5R01 GM18278-05	54,967
LARSEN, JOHN H, JR.....	CELLULAR MECHANISMS IN OVULATION AND SPAWNING.....	CBY	5R01 HD07194-02	30,661
LEGG, JOHN I.....	DEVELOPMENT OF MODELS FOR METALLOPROTEASES.....	MCHB	3R01 GM18983-03S1	9,600
MAGNUSON, JAMES A.....	METAL ION FUNCTION IN CONCAVALIN A.....	BBCB	5R01 CA14496-03	18,758
MATCHETT, WILLIAM H.....	SELECTIVE RETRIEVAL OF GENETIC INFORMATION.....	BIO	5R01 GM18683-03	40,144
MATTESON, DONALD S.....	WATER-SOLUBLE ORGANOBORON COMPOUNDS.....	MCHA	5R01 CA05513-15	49,491
MC FADDEN, BRUCE A.....	FUNCTION OF ISOCITRATE LYASE IN PARASITIC HELMINTHS.....	TMP	5R01 AI11440-03	24,518
MC FADDEN, BRUCE A.....	BIOCHEMISTRY OF MEMBRANE AND CATALYTIC PROTEINS.....	MBC	5R01 GM19972-06	47,982
MC GUIRE, TRAVIS C.....	INVESTIGATIONS OF COMBINED IMMUNODEFICIENCY IN FOALS.....	ALY	1R01 HD08886-01	60,772
MC IVOR, KEITH L.....	ISOLATION & PURIFICATION: SPECIFIC MACROPHAGE CYTOTOXIN.....	IMB	1R01 CA17683-01	29,691
MOLL, TORBJORN.....	IMMUNE MECHANISMS IN TUMOR PROTECTION.....	VR	5R01 CA13865-03	45,347
NYMAN, C J.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	NSS	5S05 RR07097-10	33,114
PADGETT, GEORGE A.....	ANIMAL MODELS FOR COMPARATIVE MEDICAL RESEARCH.....	AR	5P06 RR00515-07	92,766
RINGO, JOHN A.....	OVULATION, OVULUCT MOTILITY AND HORMONAL RELATIONSHIPS.....	REB	1R01 HD09257-01	43,905
STARKEY, JEAN R.....	SOMATIC MUTATION AND CHEMICAL CARCINOGENESIS.....	PTHB	3R01 CA15208-01S1	500
STARKEY, JEAN R.....	SOMATIC MUTATION AND CHEMICAL CARCINOGENESIS.....	PTHB	5R01 CA15208-02	41,524

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WASHINGTON—Continued</b>				
STEVENS, CARL M. II.....	MECHANISMS OF CHAIN ELONGATION IN ALPHA-KETO ACIDS.....	SSS	1R01 GM21996-01	21,935
WAY, JAMES L.....	ANTAGONISM OF CYANIDE INTOXICATION WITH OXYGEN.....	PHRA	5R01 GM21738-02	32,528
YOUNG, FRANCIS A.....	GROWTH ENVIRONMENTAL REFRACTIVE CHANGES.....	VISB	5R01 EY00284-10	76,007
YOUNT, RALPH G.....	INTERACTION OF ATP ANALOGS WITH MYOSIN.....	BBCB	5R01 AM05195-15	32,977
ORGANIZATION TOTAL	32	1,285,775		
<b>RICHLAND</b>				
<b>BATTELLE MEMORIAL INSTITUTE—PACIFIC NORTHWEST LABORATORIES ZIP CODE 99352</b>				
BAIR, WILLIAM J.....	STRENGTHENING A CENTRALIZED ANIMAL RESOURCES CENTER.....	AR	5P06 RR00869-02	20,249
FREE, MICHAEL J.....	STUDIES ON TESTICULAR AND EPIDIDYMAL FUNCTION IN VIVO.....	REB	1R01 HD08868-01	78,676
HAMPTON, JAMES C.....	CAPILLARY FINE STRUCTURE AND PERMEABILITY.....	CVA	5R01 HL13429-05	36,181
SIKOV, MELVIN R.....	EFFECT OF EXPOSURE OF THE PRENATAL RAT TO ULTRASOUND.....	RAD	5R01 GM20661-02	77,909
SULLIVAN, MAURICE F.....	EFFECTS OF INTRACAVITARY IRRADIATION WITH CF-252.....	RAD	3R01 CA13127-03S1	67,896
SULLIVAN, MAURICE F.....	EFFECTS OF INTRACAVITARY IRRADIATION WITH CF-252.....	RAD	2R01 CA13127-04	72,386
WESTERMAN, RICHARD E.....	POROUS METAL DENTAL ANCHORS IN LONG-TERM FUNCTION.....	DEN	1R01 DE03938-01	69,893
WHEELER, KENNETH R.....	MECHANICAL COMPATIBILITY OF POROUS METAL-BONE SYSTEMS.....	SGYB	1R01 GM19927-01	77,519
ORGANIZATION TOTAL	8	500,709		
<b>SEATTLE</b>				
<b>BATTELLE MEMORIAL INSTITUTE ZIP CODE 98105</b>				
GODWIN, ROBERT K.....	MODELS OF POPULATION POLICY DETERMINANTS IN THE LOC'S.....	POP	1R01 HD09553-01	51,150
ORGANIZATION TOTAL	1	51,150		
<b>CHILDREN'S ORTHOPEDIC HOSPITAL AND MEDICAL CENTER ZIP CODE 98105</b>				
BLEYER, WERNER A.....	CLINICAL PHARMACOLOGY OF INTRATHECAL METHOTREXATE.....	ET	1R01 CA16525-01A1	29,810
CHARD, RONALD L. JR.....	LEUKEMIA CENTER (PLATELET) PROGRAM.....	CCI	5R10 CA12001-10	35,854
DOCTER, JACK M.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05655-07	25,099
HARTMANN, JOHN R.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	CCI	2R10 CA10382-09	118,499
HARTMANN, JOHN R.....	CLINICAL CANCER EDUCATION PROGRAM (PEDIATRIC).....	CEC	1R25 CA18039-01	81,140
ORGANIZATION TOTAL	5	290,402		
<b>FRED HUTCHINSON CANCER RESEARCH CENTER ZIP CODE 98104</b>				
HUTCHINSON, WILLIAM B.....	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE).....	CAP	5P01 CA15704-02	1,575,521
HUTCHINSON, WILLIAM B.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	1S01 RR05761-01	139,056
POLLACK, SYLVIA B.....	SPECIFIC ANTITUMOR ACTIVITY BY ARMED LYMPHOID CELLS.....	PTHB	7R01 CA18647-01	33,184
SCRIBNER, JOHN D.....	EARLY AND CRITICAL EVENTS IN CHEMICAL CARCINOGENESIS.....	ET	1R01 CA18632-01	40,069
SLAGA, THOMAS J.....	METABOLISM OF POLYCYCLIC HYDROCARBONS IN SKIN.....	ET	1R01 CA17605-01	56,276
THOMAS, E DONNALL.....	SEPARATION OF BLOOD BY CONTINUOUS CENTRIFUGE.....	ET	7R01 CA18579-01	90,910
WRIGHT, PETER W.....	MECHANISMS OF ALLOGRAFT TOLERANCE.....	IMB	1R01 CA17481-01	55,433
ORGANIZATION TOTAL	7	1,990,449		
<b>INSTITUTE OF APPLIED PHYSIOLOGY AND MEDICINE ZIP CODE 98122</b>				
REID, JOHN M.....	CEREBROVASCULAR SYSTEM ASSESSMENT BY DOPPLER ULTRASOUND.....	RAD	5R01 HL15844-02	50,837
ORGANIZATION TOTAL	1	50,837		
<b>KING COUNTY CENTRAL BLOOD BANK ZIP CODE 98104</b>				
DONOHUE, DENNIS M.....	A COMMUNITY BLOOD RESOURCE CENTER.....	SRC	1P16 HL17265-01	749,780
GIBLETT, ELOISE R.....	INHERITED VARIATIONS IN HUMAN BLOOD COMPONENTS.....	GEN	5R01 AM09745-10	46,287
SLICHTER, SHERRILL J.....	LEUKEMIA CENTER (PLATELET) PROGRAM.....	CCI	5R10 CA12190-05	128,184
ORGANIZATION TOTAL	3	924,251		
<b>PACIFIC NORTHWEST RESEARCH FOUNDATION ZIP CODE 98104</b>				
BAKKE, JOHN L.....	THYROTROPIN ASSAY OF BODY FLUIDS AND TISSUES.....	END	2R01 AM05638-15	87,136
HUTCHINSON, WILLIAM B.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05520-13	43,694
RILEY, VERNON T.....	BASIC STUDIES IN TUMOR DEPRIVATION THERAPY.....	PHRB	5R01 CA12188-04	49,619
SANTISTEBAN, GEORGE A.....	SOCIAL STIMULATION, RNA, AND CARDIOVASCULAR DISEASE.....	NEUB	5R01 NS09758-06	52,618



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WASHINGTON—Continued</b>				
SHEARER, RUTH W.....	NUCLEAR-CYTOPLASMIC RNA TRANSPORT IN CARCINOGENESIS.....	GEN	5R01 CA14474-03	34,172
SPACKMAN, DARREL H.....	FREE AMINO ACIDS IN NORMAL AND TUMOR-BEARING MICE.....	SSS	5R01 CA16308-02	32,097
ORGANIZATION TOTAL	6 299,336			
<b>PROVIDENCE MEDICAL CENTER ZIP CODE 98122</b>				
REID, JOHN M.....	STUDY OF SCATTERING OF ULTRASOUND BY CARDIAC TISSUES.....	RAD	5R01 HL14785-04	15,478
SAUVAGE, LESTER R.....	ATTAINMENT OF OPTIMAL HEALING WITH ARTERIAL PROSTHESES.....	SGYA	5R01 HL15257-03	84,127
ORGANIZATION TOTAL	2 99,605			
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 98114</b>				
WILLS, ROBERT E.....	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION.....	TEC	5R01 HL10715-09	54,118
ORGANIZATION TOTAL	1 54,118			
<b>UNIVERSITY OF WASHINGTON ZIP CODE 98195</b>				
ABBS, JAMES H.....	NEUROMUSCULAR MECHANISMS UNDERLYING SPEECH PRODUCTION.....	CDR	5P01 NS11780-02	128,440
ALBERS, JOHN J.....	LIPOPROTEIN PEPTIDE AND ENZYME RADIOIMMUNOASSAYS.....	MET	5R01 HL15263-03	16,254
ALEXANDER, E RUSSELL.....	EPIDEMIOLOGY OF CERVICAL CANCER AND GENITAL INFECTIONS.....	EDC	2R01 CA11703-06	116,966
ALEXANDER, E RUSSELL.....	HERPES GENITALIS IN THE ADOLESCENT VS MATURE MONKEY.....	PTHB	5R01 CA14888-02	86,741
ALMERS, WOLFHARD.....	ELECTRIC STUDIES OF MUSCLE EXCITATION AND CONTRACTION.....	PHY	1R01 AM17803-01	39,101
ANDERSEN, NIELS H.....	SESQUITERPENE BIOGENESIS: EVOLUTION OF ECOLOGIC ROLES.....	MCHB	3R01 GM18143-04S1	9,840
ANDERSEN, NIELS H.....	THE MOLECULAR BASIS OF PROSTAGLANDIN BIOCHEMISTRY.....	MCHB	1R01 GM20848-01	34,907
ANDERSON, MARJORIE E.....	NEUROPHYSIOLOGICAL STUDIES OF THE BASAL GANGLIA.....	NEUA	5R01 NS10804-03	22,632
AREND, WILLIAM P.....	STUDIES ON MONONUCLEAR PHAGOCYTES.....	IMB	2R01 AI10825-04	49,053
BAGDADE, JOHN D.....	HOST DEFENSE IN DIABETES MELLITUS.....	MET	1R01 AM17939-01A1	47,466
BAGDADE, JOHN D.....	MECHANISMS OF HYPERLIPIDEMIA AND ATHEROGENESIS IN UREMIA.....	CVB	1R01 HL16219-01A1	46,101
BAYLINK, DAVID J.....	INFLUENCE OF NUTRITION ON FORMATION OF BONE.....	DEN	5R01 AM09096-10	49,760
BENDITT, EARL P.....	STUDY OF CELLULAR AND MOLECULAR PATHOLOGY.....	SSS	5P01 GM13543-10	184,670
BENDITT, EARL P.....	STUDY OF MECHANISMS OF ACUTE VASCULAR REACTION TO INJURY.....	HEP	5P01 HL03174-20	281,861
BERNSTEIN, IRWIN D.....	MECHANISMS OF BCG MEDIATED SUPPRESSION OF TUMOR GROWTH.....	IMB	1R01 CA16712-01	48,055
BERRY, HERBERT C.....	COOPERATIVE STUDY OF RADIATION THERAPY.....	CCI	5R10 CA12260-04	32,991
BIERMAN, EDWIN L.....	TRIGLYCERIDE TRANSPORT IN HYPERLIPIDEMIA AND DIABETES.....	SSS	5R01 AM06670-12	50,742
BIERMAN, EDWIN L.....	AGING, METABOLISM AND ATHEROSCLEROSIS.....	HDAG	2P01 HD04872-05	244,419
BLANDAU, RICHARD J.....	STUDIES IN MAMMALIAN REPRODUCTION.....	REB	3R01 HD03752-05S2	55,944
BLANDAU, RICHARD J.....	PROGRAM PROJECT ON GAMETE TRANSPORT IN MAMMALS.....	HDPR	2P01 HD03752-06A2	119,111
BOATMAN, EDWIN S.....	ULTRASTRUCTURE AND REPLICATION OF MYCOPLASMATACEAE.....	BM	5R01 AI09586-05	32,745
BOATMAN, EDWIN S.....	EFFECT OF OZONE ON LUNG GROWTH AND DEVELOPMENT.....	CVA	5R01 ES01049-02	43,402
BONICA, JOHN J.....	ANESTHESIA RESEARCH PROGRAM.....	SSS	5P01 GM15991-07	673,464
BORNSTEIN, PAUL.....	BIOGENESIS AND FUNCTION OF CONNECTIVE TISSUE PROTEINS.....	PC	2R01 AM11248-09	83,525
BUNT, ANN H.....	PROTEIN TRANSPORT IN RETINAL PHOTORECEPTORS AND AXONS.....	VISB	5R01 EY01311-02	42,718
BUTLER, JOHN.....	PULMONARY SPECIALIZED CENTER OF RESEARCH.....	SRC	5P17 HL14152-05	397,899
BYERS, BRECK E.....	MOLECULAR CYTOLOGY OF THE YEAST CELL CYCLE.....	MBY	3R01 GM18541-04S1	4,365
CALVIN, WILLIAM H.....	NEURON REPETITIVE FIRING MECHANISMS.....	NEUA	5R01 NS09677-05	31,298
CAMERMAN, ARTHUR.....	STEREOCHEMISTRY OF THYROID HORMONES AND ANALOGUES.....	BBCA	5R01 AM16417-02	36,885
CAMERMAN, ARTHUR.....	STEREOCHEMICAL PRINCIPLES FOR ANTICANCER DRUGS.....	BBCA	5R01 CA15879-02	45,868
CHAMPPOUX, JAMES J.....	REPLICATION OF POLYOMA TUMOR-VIRUS DNA.....	VR	5R01 CA13883-03	39,145
CHANDLER, JOHN W.....	IMMUNOPATHOLOGY AND THERAPY OF CORNEAL DISEASE.....	VISA	5R01 EY01282-02	33,915
CHAPMAN, C RICHARD.....	ACUPUNCTURE AND PERCEPTION OF DENTAL PAIN IN MAN.....	SSS	1R01 DE04004-01	55,190
CHAPMAN, WARREN H.....	EXPERIMENTAL BLADDER TUMORS.....	SGYA	2R01 CA03842-17	38,841
CHAPMAN, WARREN H.....	STUDY OF IMMUNOLOGY OF BLADDER TUMORS.....	SRC	5R26 CA14135-03	68,653
CHRISTENSEN, GERALD M.....	RESIDUAL POSTNATAL INJURY FROM PRENATAL X-IRRADIATION.....	RAD	1R01 CA15844-01A1	58,235
CHRISTENSEN, GERALD M.....	RADIATION INDUCED FIBROSIS.....	RAD	1R01 CA17042-01	70,128
CROWLEY, DOROTHY M.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05758-02	34,871
CURRERI, P WILLIAM.....	METABOLISM AND NUTRITION IN BURNS AND TRAUMA.....	SGYB	2R01 GM21748-02	86,271
CURRERI, P WILLIAM.....	BURN RESEARCH CENTER.....	SSS	1P01 GM22550-01	505,017
DAVIE, EARL W.....	MECHANISM OF ENZYME CATALYSIS.....	HEM	9R01 HL16680-13	10,136
DAVIE, EARL W.....	PROTEINS OF BLOOD COAGULATION.....	HEM	1R01 HL16919-01A1	330,097
DAY, ROBERT W.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05714-05	86,174
DECKER, JAY D.....	STAINING ALTERATIONS IN STRESSED COLLAGEN.....	DEN	1R01 DE04015-01A1	30,572
DODGE, HAROLD T.....	STUDY OF CIRCULATORY PERFORMANCE AND PREDICTION.....	HEP	5P01 HL13517-05	1,109,689
DODGE, HAROLD T.....	SUDDEN CARDIAC DEATH AND ONSET OF MYOCARDIAL INFARCTION.....	SRC	1R01 HL18805-01	372,109

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WASHINGTON—Continued</b>				
DOERMANN, AUGUST H.	INVESTIGATION OF GENETIC PROBLEMS WITH BACTERIOPHAGES.	GEN	5R01 GM13280-12	86,259
DOERMANN, AUGUST H.	MOLECULAR CONTROL OF CAPSID FORM IN BACTERIOPHAGE T4	GEN	3R01 GM21340-01S1	5,956
DONALDSON, SUE K.	CARDIAC CONTRACTILITY: ROLE OF INTRACELLULAR MG2 PLUS	PHY	1R01 HL17373-01	37,141
EDWARDS, JOHN S.	NEURAL DEVELOPMENT	NEUB	5R01 NS07778-08	63,153
EISDORFER, CARL	LEARNING AND PSYCHOPHYSIOLOGICAL STUDIES IN THE AGED	DBR	5R01 HD07755-02	103,745
EMANUEL, IRVIN	RESEARCH IN MENTAL RETARDATION AND CHILD DEVELOPMENT	HDMR	2P01 HD02274-09	632,496
ENSINCK, JOHN W.	THE REGULATION OF GLUCAGON SECRETION IN THE PRIMATE	MET	5R01 AM16008-03	45,843
ENSINCK, JOHN W.	CONTROL OF SOMATOSTATIN IN THE MAMMAL	END	1R01 AM18422-01	31,373
EVANS, CHARLES A.	INDIVIDUAL DIFFERENCES IN SURFACE FLORA OF ACNE SKIN	BM	5R01 AI11915-02	30,350
FALKOW, STANLEY	NATURE OF ENTEROTOXIN PRODUCTION BY E. COLI AND V. COMMA	MBC	2R22 AI10885-04	39,886
FANGMAN, WALTON L.	DNA STRUCTURE AND REPLICATION IN YEAST AND BACTERIA	MBC	5R01 GM18926-04	36,042
FARNER, DONALD S.	CONTROL OF TESTICULAR FUNCTION	REB	5R01 HD06527-03	47,127
FARWELL, GEORGE W.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07096-10	109,458
FEFER, ALEXANDER	IMMUNOLOGIC ASPECTS OF AUTOCHTHONOUS TUMOR REGRESSION	IMB	5R01 CA10777-07	68,401
FETZ, EBERHARD E.	NEURAL CONTROL OF MUSCLE ACTIVITY	NEUA	1R01 NS12542-01	55,704
FIALKOW, PHILIP J.	HUMAN CANCER—ORIGIN AND GENETIC MARKERS	GEN	1R01 CA16448-01	48,815
FINCH, CLEMENT A.	KINETIC STUDIES OF THE BLOOD	HEM	5R01 HL06242-15	291,580
FINK, B. RAYMOND	MATURATION OF LARYNX IN RELATION TO INFANT DEATH	CMS	5R01 HD08511-02	25,505
FISCHER, EDMOND H.	RELATION OF STRUCTURE TO FUNCTION OF ENZYMES	PC	5R01 AM1902-12	97,520
FOX, JOHN P.	FAMILY STUDY OF INFLUENZA AND RHINOVIRUS EPIDEMIOLOGY	VR	1R01 AI12269-01	90,797
FOY, HJORDIS M.	IMMUNITY TO MYCOPLASMA PNEUMONIAE INFECTIONS	BM	2R01 AI10695-04A1	56,969
FOY, HJORDIS M.	NONBACTERIAL INFECTIONS IN OBSTETRICS	BR	5R01 AI12005-02	45,638
FRANK, NEDD R.	OZONE EFFECTS ON OVERALL AND REGIONAL LUNG FUNCTION	PTHA	1R01 HL18925-01	46,910
FUCHS, ALBERT F.	NEUROPHYSIOLOGICAL STUDIES OF THE OCULOMOTOR SYSTEM	VIS	5R01 EY00745-04	34,017
FUJIMOTO, WILFRED Y.	CELL CULTURE STUDY OF DIABETES AND VASCULAR DISEASE	MET	2R01 AM15312-04	30,544
FUTTERMAN, SIDNEY	RETINAL METABOLISM	PC	5R01 EY00343-10	46,368
FUTTERMAN, SIDNEY	STUDIES ON VISUAL PIGMENTS	PC	5R01 EY00529-05	37,418
GALE, CHARLES C.	CNS-CONTROL OF PITUITARY, TEMPERATURE & METABOLISM	PHY	5R01 NS06622-10	45,812
GALLANT, JONATHAN A.	CONTROL OF RNA SYNTHESIS	MBC	3R01 GM13626-09S1	8,025
GELLERT, RONALD J.	PERINATAL MANIPULATION OF NEUROENDOCRINE DEVELOPMENT	HED	5R01 ES00819-02	40,005
GELLERT, RONALD J.	VITAMIN A AND REPRODUCTIVE FUNCTION	REB	1R01 HD08716-01	51,075
GLOMSET, JOHN A.	PLASMA CHOLESTEROL METABOLISM	MET	5R01 HL10642-15	49,500
GOODNER, CHARLES J.	CNS REGULATION OF FUEL MOBILIZATION AND STORAGE	END	2R01 AM10866-09	48,440
GORBMAN, AUBREY	EFFECT OF HORMONAL ACTION ON FUNCTIONS OF CNS	END	5R01 NS11343-02	104,738
GORDON, ALBERT M.	CONTROL OF CONTRACTION IN STRIATED MUSCLE	PHY	3R01 NS08384-06S1	4,302
GORDON, ALBERT M.	CONTROL OF CONTRACTION IN STRIATED MUSCLE	PHY	2R01 NS08384-07	45,739
GOUTERMAN, MARTIN	STUDY OF ANALOG SYSTEMS FOR BIOLOGICAL PORPHYRINS	BBCA	5R01 AM16508-03	72,438
GRAYSTON, J. THOMAS	PREVENTION OF TRACHOMA AND RELATED INFECTIONS	VR	5R01 EY00219-15	157,005
GRAYSTON, J. THOMAS	REGIONAL PRIMATE RESEARCH CENTER	PME	5P06 RR00166-15	1,563,892
GREENLEE, THEODORE K. JR.	TENDON REGENERATION AND DEVELOPMENT	AFY	2R01 AM15762-04	68,719
GROMAN, NEAL B.	STUDIES ON VIRULENCE OF CORYNEBACTERIUM DIPHTHERIAE	VR	5R01 AI10492-04	34,246
GUEST, AVERY M.	AMERICAN SUBURBAN DEVELOPMENT	POP	1R01 HD08961-01	29,320
HAKOMORI, SEN-ITIROH.	IMMUNOSPECIFIC GLYCOLIPIDS OF NORMAL AND CANCER CELLS	PC	2R01 CA10909-08	39,255
HAKOMORI, SEN-ITIROH.	RELATION OF BLOOD GROUP AND HUMAN TUMOR ANTIGENS	PC	2R01 CA12710-04	55,600
HALL, BENJAMIN D.	EXPRESSION AND REGULATION OF EUKARYOTIC GENES	GEN	2R01 GM11895-12	91,762
HARKER, LAURENCE A.	PLATELET MECHANISMS IN DISEASE	HEM	2R01 HL11775-08A1	97,940
HARRIS, A. BASIL	ANATOMY OF EXPERIMENTAL SEIZURES	NEUA	5R01 NS09037-05	25,654
HARRIS, FREDRIC A.	DENTAL CARE OF THE CEREBRAL PALSIED CHILD	DEN	1R01 DE04179-01	23,850
HARTWELL, LELAND H.	GENE CONTROL OF EUKARYOTE CELL GROWTH AND DIVISION	GEN	5R01 NS08174-07	45,567
HAZZARD, WILLIAM R.	ESTROGEN EFFECTS ON LIPIDS, ARTERIES AND PLATELETS	PTHA	1R01 HL18291-01	28,845
HEINRICH, WILLIAM L.	PRENATAL ANDROGEN & DIFFERENTIATION OF STEROID DYNAMICS	REB	1R01 HD08736-01A1	63,090
HELLSTROM, INGEGERO E.	TRANSPLANTATION ANTIGENICITY OF VIRUS INDUCED TUMORS	SSS	2R01 CA10189-09	114,801
HELLSTROM, KARL E.	LYMPHOCYTE ALLOGENEIC INHIBITION AND TUMOR IMMUNITY	SSS	2R01 CA10188-09	147,413
HENDRICKSON, ANITA E.	DEVELOPMENT OF THE PRIMATE RETINA AND VISUAL THALAMUS	VISB	5R01 EY01208-02	25,860
HILLE, BERTIL	MOLECULAR PROPERTIES OF IONIC PERMEABILITY IN NERVE	PHY	2R01 NS08174-07	41,567
HLASTALA, MICHAEL P.	VENTILATION/PERFUSION DISTRIBUTION IN THE LUNG	PHY	5R01 HL12174-08	72,988
HOLCENBERG, JOHN S.	A PROGRAM FOR RESEARCH WITH ENZYMES AS ANTITUMOR AGENTS	ET	5R01 CA11881-06	42,077
HUNTSMAN, LEE L.	NONINVASIVE DETERMINATION OF AORTIC BLOOD VELOCITIES	RAD	5R01 HL16830-02	45,925
JENSEN, LYLE H.	MOLECULAR STRUCTURE	BBCA	5R01 AM03288-16	42,994
JENSEN, LYLE H.	STRUCTURE OF BIOLOGICALLY IMPORTANT COMPOUNDS	BBCA	5R01 GM10828-21	41,535

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WASHINGTON—Continued</b>				
JENSEN, LYLE H.	CRYSTALLOGRAPHIC STUDY OF PROTEINS	BBCB	5R01 GM13366-10	64,077
JOHNSON, DAVID G.	THE REGULATION OF INSULIN SECRETION	MET	1R01 AM17698-01	23,961
KEHL, THEODORE H.	SUPPORT FOR PHYSIOLOGY AND BIOPHYSICS COMPUTER	COM	5P07 RR00374-08	176,735
KELLER, JOHN M.	BIOCHEMISTRY OF HERPES VIRUS-INDUCED CELL FUSION	VR	5R01 CA16902-02	29,576
KELLER, PATRICIA J.	STUDIES ON THE BYSSUS OF MYTILUS CALIFORNIANUS	CBY	1R01 DE03681-01	29,435
KENNY, GEORGE E.	ANTIGEN COMPOSITION OF MYCOPLASMA PNEUMONIAE	ALY	5R01 AI06720-10	64,790
KIEHN, EDWARD D.	VIRAL GENES IN MALIGNANT TRANSFORMATION	VR	5R01 CA15722-02	49,596
KLEBANOFF, SEYMOUR J.	ROLE OF ANTIMICROBIAL EFFECT OF PEROXIDASE IN LEUKOCYTES	BM	2R01 AI07763-09	62,215
KLEBANOFF, SEYMOUR J.	UTERINE EOSINOPHIL STRUCTURE AND FUNCTION	PTHA	5R01 HD02266-10	54,579
KNOPP, ROBERT H.	HYPERLIPIDEMIA IN PREGNANCY: DEFINITIONS & MECHANISMS	MET	5R01 HD08968-02	43,433
LABBE, ROBERT F.	METABOLIC ABNORMALITIES IN MENTAL RETARDATION	HDMR	5P01 HD04665-05	198,685
LAGUNOFF, DAVID	STUDIES ON BETA-GLUCURONIDASE DEFICIENCY DISEASE	PTHA	5R01 AM17578-02	38,882
LAIRD, CHARLES D.	NUCLEOTIDE SEQUENCE CHANGES IN EVOLUTION	GEN	2R01 GM19179-04	44,973
LEE, JOHN A.	CRITICAL REVIEW OF DATA ON CANCER OF LARGE BOWEL	SRC	5R26 CA14952-02	42,426
LUND, JENNIFER S.	STRUCTURE AND DEVELOPMENT OF VISUAL CORTEX	VISB	5R01 EY01086-03	43,384
LUND, RAYMOND D.	DEVELOPMENT AND PLASTICITY OF VISUAL CONNECTIONS	VISB	5R01 EY00596-07	52,555
LUSCHEI, ERICH S.	NEURAL PROCESSES IN SOMATIC MOVEMENT	NEUB	5R01 NS08596-07	18,592
MACKLER, BRUCE	STUDIES OF HUMAN AND MAMMALIAN DEVELOPMENT	HDMR	5P01 HD05961-04	50,278
MACKLER, BRUCE	STUDIES OF HUMAN AND MAMMALIAN DEVELOPMENT	HDMR	2P01 HD05961-05	265,241
MACKLER, BRUCE	STUDIES OF BIOLOGICAL OXIDATIONS	BIO	5R01 HL05457-15	47,013
MAKOUS, WALTER L.	DUPPLICITY THEORY AND THE STILES-CRAWFORD EFFECT	VIS	5R01 EY00788-03	26,572
MANNIK, MART	STUDIES ON THE RENAL DISEASE OF SYSTEMIC LUPUS	ALY	5R01 AM1476-09	51,396
MANNIK, MART	IMMUNOLOGIC STUDIES IN RHEUMATOID ARTHRITIS	ALY	5R01 AM12849-07	37,527
MARTIN, GEORGE M.	ABNORMAL PROTEINS IN THE PATHOGENESIS OF DISEASE	PTHB	5R01 AM04826-15	91,092
MOFFETT, BENJAMIN C, JR.	GROWTH AND REMODELING OF CRANIOFACIAL ARTICULATIONS	DEN	5R01 DE02931-09	76,816
MORITZ, WILLIAM E.	ULTRASONIC MEASUREMENT OF CARDIAC GEOMETRY AND FLOW	RAD	5R01 HL16759-02	35,745
MORRIS, DAVID R.	BIOSYNTHESIS AND BIOLOGICAL FUNCTION OF POLYAMINES	PC	5R01 GM13957-09	45,919
MOTTET, N KARLE	METHYLMERCURY EMBRYOPATHY	HED	2R01 ES00677-04	125,030
MOTULSKY, ARNO G.	STUDY OF INHERITED DISEASES	SSS	5P01 GM15253-09	1,088,219
NEIMAN, PAUL E.	MOLECULAR MECHANISMS IN NEOPLASIA	VR	5R01 CA12895-02	55,972
NELSON, WENDEL L.	ABSOLUTE CONFIGURATION OF GLYCEROL DERIVATIVES	MCHA	3R01 GM20357-01A1S1	1,864
NESTER, EUGENE W.	MOLECULAR BASIS OF CROWN GALL TUMORIGENESIS	CBY	2R01 CA13015-04	91,003
NESTER, EUGENE W.	AROMATIC ACID BIOSYNTHESIS IN BACILLUS SUBTILIS	MBG	5R01 GM09848-12	50,714
NEURATH, HANS	PROTEOLYTIC ENZYMES—DIVERSITY, FUNCTION, HOMOLOGY	SSS	5P01 GM15731-07	393,708
NEWELL, LAURA L.	THE INTERRELATION OF CHANGING KINSHIP AND DEMOGRAPHY	POP	1R01 HD07607-01A1	66,251
ODLAND, GEORGE F.	FUNCTIONAL-ULTRASTRUCTURAL STUDY OF MICROCIRCULATION	CVB	5R01 HL16805-02	75,561
PAGE, ROY C.	CONNECTIVE TISSUE OF THE PERIODONTIUM	PC	2R01 DE03301-04	55,748
PALMITER, RICHARD D.	HORMONAL CONTROL OF DIFFERENTIATION AND GENE ACTION	SSS	1R01 HD09172-01	41,050
PARKER, ROBERT G.	STUDY OF FAST NEUTRON-BEAM RADIOTHERAPY	CAP	5P01 CA12441-05	479,244
PAULSEN, C ALVIN	PITUITARY-GONADAL INTERRELATIONSHIP	REB	5R01 HD05105-14	65,145
PETERSDORF, ROBERT G.	EXPERIMENTAL ENDOCARDITIS	BM	1R01 HL17751-01	68,714
PETERSON, DONALD R.	GENETIC SUSCEPTIBILITY TO SUDDEN INFANT DEATH	EDC	1R01 HD09297-01	44,517
PETRA, PHILIP H.	STRUCTURE-FUNCTION OF STEROID BINDING PROTEINS	PC	2R01 HD07190-04	37,777
PIOUS, DONALD A.	GENETIC STRUCTURE AND FUNCTION IN HUMAN CELLS	GEN	5R01 GM15883-11	53,531
POCKER, YESHAYAU	PHYSICOCHEMICAL STUDIES OF ENZYMIC HYDRATION	BIO	2R01 AM09221-11	66,014
POLLACK, GERALD H.	BLOOD FLOW MEASUREMENT BY ULTRASONIC CATHETER TIP METHOD	CVA	5R01 HL14645-04	42,243
PORTE, DANIEL, JR.	REGULATION OF INSULIN SECRETION	MET	5R01 AM12829-07	28,450
RIDDIFORD, LYNN M.	STUDIES OF JUVENILE HORMONE ACTION	CBY	1R01 AI12459-01	35,147
ROMAN, HERSCHEL L.	GENETIC INVESTIGATIONS IN YEAST-SACCHAROMYCES	GEN	5R01 AI00328-24	87,366
ROSS, RUSSELL	WOUND REPAIR, INFLAMMATION AND CONNECTIVE TISSUE	PTHA	2R01 AM13970-14A1	49,826
ROSS, RUSSELL	THE ARTERIAL SMOOTH MUSCLE CELL IN ATHEROSCLEROSIS	PTHA	2R01 HL14823-04	73,249
ROVIN, SHELDOON	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05346-14	33,898
RUBIN, CYRUS E.	THE PATHOGENESIS OF HUMAN ALIMENTARY MUCOSAL DISEASE	SSS	5R01 AM16059-17	186,674
RUSHMER, ROBERT F.	BIOENGINEERING RESEARCH PROGRAM	GMP	5P01 GM16436-07	459,578
RUSHMER, ROBERT F.	CARDIOVASCULAR INSTRUMENTATION RESEARCH & DEVELOPMENT	SSS	5P01 HL07293-14	374,793
SACKETT, GENE P.	PREMATURITY IN PRIMATES: CAUSES, EFFECTS, PREVENTION	PME	5R01 HD08633-02	164,180
SANDLER, LAURENCE M.	CYTOGENETICS OF MEIOSIS AND DEVELOPMENT IN DROSOPHILA	GEN	5R01 GM09965-13	52,080
SCHER, ALLEN M.	REGULATION OF THE PERIPHERAL CIRCULATION	HEP	5P01 HL16910-02	480,357
SCHMER, GOTTFRIED	CHEMICAL MODIFICATION OF ANTITUMOR ENZYMES	ET	5R01 CA15674-02	66,475



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WASHINGTON—Continued</b>				
SCHROEDER, THOMAS E .....	ULTRASTRUCTURE AND BIOCHEMISTRY OF THE CONTRACTILE RING .....	CBY	2R01 GM19464-04	66,560
SCOTT, C. RONALD .....	BIOCHEMICAL CAUSES OF CHILD IMMUNE DEFICIENCY STATES .....	ALY	1R01 AI12617-01	82,315
SCRIBNER, BELDING H .....	STUDY OF DIALYSIS IN THE TREATMENT OF CHRONIC UREMIA .....	AMP	5P01 AM06741-13	193,800
SCRIBNER, BELDING H .....	METABOLIC ASPECTS OF LONG TERM PARENTERAL NUTRITION .....	SGYA	5R01 AM16849-02	52,079
SHEPARD, THOMAS H .....	COLLECTION OF EMBRYOS AND FETUSES .....	HED	5R01 HD00836-12	36,814
SHEPARD, THOMAS H .....	TERATOGENICITY OF CYTOCHALASINS AND PLANT METABOLITES .....	HED	5R01 HD08554-02	35,764
SIMKIN, PETER A .....	STUDIES OF URIC ACID TRANSPORT .....	GMA	5R01 AM13925-06	67,220
SMITH, DALE E .....	NONBIOLOGIC IMPLANT SUPPORT FOR OVERDENTURES .....	SSS	5R01 DE03802-02	17,487
SMITH, LYNNWOOD S .....	PATHOGENESIS OF BUBBLE AND CLOT FORMATION .....	CVB	5R01 HL16254-02	25,785
SMITH, ORVILLE A, JR .....	ORAL-FACIAL GROWTH AND DEVELOPMENT IN PRIMATES .....	SSS	5P01 DE02918-07	178,975
SMUCKLER, EDWARD A .....	CYTOCHEMICAL STUDIES IN LIVER INJURY .....	SSS	5R01 AM08686-10	59,214
SMUCKLER, EDWARD A .....	PATHOLOGY OF CHEMICAL CARCINOGENESIS .....	ET	5R01 CA13600-03	101,681
SPITZNAGLE, LARRY A .....	DEVELOPMENT OF TUMOR AND ORGAN IMAGING AGENTS .....	RAD	1R01 GM22080-01	54,187
SREEBNY, LEO M .....	SALIVARY GLAND DNASE'S .....	DEN	5R01 DE02120-11	58,769
SREEBNY, LEO M .....	A RESEARCH CENTER IN ORAL BIOLOGY .....	DSR	2P13 DE02600-09	1,397,000
STEVENS, CHARLES F .....	BASIC NEURAL MECHANISMS .....	PHY	5R01 NS05934-10	65,463
STIRLING, CHARLES E .....	ACTIVE TRANSPORT IN EPITHELIA .....	PHY	2R01 AM13182-07	32,478
STORB, URSULA B .....	CONTROL OF IMMUNOGLOBULIN SYNTHESIS .....	ALY	2R01 AI10685-04A1	64,123
STRANDNESS, DONALD E, JR .....	ULTRASONIC VISUALIZATION OF ARTERIES .....	RAD	5R01 HL12875-06	45,589
SWANSON, PHILLIP D .....	ENERGY UTILIZING PROCESSES IN THE CENTRAL NERVOUS SYSTEM .....	NEUB	5R01 NS05424-11	72,315
TELLER, DAVID C .....	STUDIES OF ASSOCIATION REACTIONS OF ENZYMES .....	BBCA	2R01 GM13401-10	64,023
THOMAS, E DONNALL .....	ADULT LEUKEMIA RESEARCH CENTER .....	CAP	5P02 CA10895-07	1,076,851
THOMAS, E DONNALL .....	IRRADIATION AND MARROW TRANSPLANTATION IN LARGE ANIMALS .....	IMB	9R01 CA18047-12	102,652
TOWE, ARNOLD L .....	SINGLE UNIT ANALYSIS IN THE SOMATOSENSORY SYSTEM .....	NEUA	2R01 NS00396-22	48,075
TOWE, ARNOLD L .....	HIGH-SPEED DATA ACQUISITION AND COMPUTER ANALYSIS .....	COM	2R01 NS05136-12	59,709
TURCK, MARVIN .....	EPIDEMIOLOGY OF E. COLI INFECTIONS .....	BM	5R01 AI06311-10	39,222
VAN CITTERS, ROBERT L .....	GENERAL CLINICAL RESEARCH CENTER .....	CLR	2M01 RR00037-15	613,390
VAN CITTERS, ROBERT L .....	GENERAL CLINICAL RESEARCH CENTER .....	CLR	5M01 RR00133-11	470,947
VAN CITTERS, ROBERT L .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05432-14	255,345
VAN HASSEL, HENRY J .....	TOOTH REPLANTATION STUDIES .....	SSS	1R01 DE03800-01	20,871
VINCENZI, FRANK F .....	RED BLOOD CELL CALCIUM IN HEALTH AND DISEASE .....	HEM	5R01 AM16436-02	37,146
VON BEHRENS, WIELAND E .....	PLATELET SIZE AND SHAPE IN HEALTH AND DISEASE .....	HEM	1R01 HL18217-01	47,337
WALIKE, BARBARA C .....	STUDY OF OBESITY AND THE REGULATION OF APPETITE .....	EXP	5R01 AM16217-03	45,316
WARD, ARTHUR A, JR .....	STUDY OF EPILEPSY .....	NSPB	2P01 NS04053-13	408,748
WEDGWOOD, RALPH J .....	DEVELOPMENTAL AND GENETIC DEFECTS OF IMMUNITY .....	ALY	2R01 AI07073-09	36,970
WEISER, RUSSELL S .....	STUDIES ON IMMUNITY IN EXPERIMENTAL SYPHILIS .....	IMB	5R01 AI11384-03	26,737
WESTRUM, LESNICK E .....	FINE STRUCTURE OF DEAFFERENTATION .....	NEUA	5R01 NS09678-05	44,115
WHISLER, HOWARD C .....	BIOLOGY OF ENTOMOGENOUS FUNGI .....	TMP	5R01 AI05882-13	35,474
WHITE, THOMAS T .....	PANCREATIC DUCTAL VERSUS DUODENAL SECRETIONS .....	SGYA	5R01 CA14380-03	56,898
WHITELEY, HELEN R .....	REGULATION OF RNA SYNTHESIS .....	PC	3R01 GM20784-01S1	9,428
WHORTON, JAMES C .....	HYGIENIC REFORM IN JACKSONIAN AMERICA .....	SSS	1R01 LM02360-01	2,400
WILLIAMS, ROBERT H .....	DIABETES ETIOLOGY, PATHOGENESIS, AND MANAGEMENT .....	AMP	5P01 AM02456-16	97,366
WILLSON, RICHARD A .....	ACUTE HEPATIC FAILURE STUDY .....	GMA	1R01 AM17813-01	22,195
WISE, JOHN A .....	VIRAL ANTIGENICITY AND ITS RELATION TO VIRAL IMMUNITY .....	VR	1R01 AI12827-01	48,486
WOLF, NORMAN S .....	STROMAL CONTROL OF HEMOPOIESIS—NORMAL AND DISEASED .....	HEM	5R01 AM15280-05	40,755
WOODS, STEPHEN C .....	NEURAL CONTROL OF BODY WEIGHT .....	EXP	1R01 AM17844-01	35,348
YAMAMURA, KOZO .....	ECONOMIC STUDY OF FERTILITY DECLINE IN POSTWAR JAPAN .....	POP	5R01 HD07552-03	36,097
YOUNG, ELTON T, II .....	CONTROL OF FUNCTIONAL MESSENGER RNA SYNTHESIS .....	PC	5R01 AI09456-06	35,625
ORGANIZATION TOTAL	213	24,886,275		
<b>VIRGINIA MASON RESEARCH CENTER ZIP CODE 98101</b>				
CUMMINGS, KENNETH B .....	EVALUATION AND MANAGEMENT OF BLADDER CARCINOMA .....	SRC	1R26 CA17466-01	50,531
D'Aoust, BRIAN G .....	SYNERGISTIC EFFECTS OF OXYGEN AND HYDROSTATIC PRESSURE .....	AFY	5R01 HL14801-03	22,452
HILDEBRANDT, JACOB .....	LUNG AND TISSUE MECHANICS .....	CVA	5R01 HL14854-03	37,104
HILDEBRANDT, JUDITH R .....	CARDIORESPIRATORY CONTROL IN EXERCISE .....	AFY	2R01 HL13233-06	14,431
NIELSEN, ROBERT L .....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS .....	SSS	5R01 AM07854-12	34,952
RICHMOND, VIRGINIA L .....	STUDIES ON LUNG COLLAGEN AND ELASTIN .....	MBY	3R01 HL14399-03S2	21,884
SUTTON, DWIGHT .....	LIMBIC AND NEOCORTEX MECHANISMS IN PHONATION .....	CMS	1R01 NS12165-01	60,489
WILLOUGHBY, WILLIAM F .....	GENERAL RESEARCH SUPPORT GRANT .....	NSS	5S01 RR05588-09	45,962
ORGANIZATION TOTAL	8	287,805		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WASHINGTON—Continued</b>				
STATE TOTAL	289	30,831,068		
<b>WEST VIRGINIA</b>				
<b>MORGANTOWN</b>				
<b>WEST VIRGINIA UNIVERSITY</b>	<b>ZIP CODE 26506</b>			
ALBRINK, MARGARET J.....	SERUM TRIGLYCERIDE AND DIABETIC COMPLICATIONS.....	MET	5R01 AM09252-11	35,280
BIDDINGTON, W ROBERT.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05347-14	21,921
BLAIR, JAMES B.....	HORMONAL REGULATION OF GLUCONEOGENESIS.....	MET	5R01 AM17664-02	22,405
BROWN, PAUL B.....	ORGANIZATION OF CUTANEOUS NEURONS OF THE DORSAL HORN.....	NEUB	2R01 NS12061-02	38,788
BUTCHER, ROY L.....	HORMONAL REGULATION OF LUTEAL FUNCTION AND REGRESSION.....	REB	5R01 HD07762-02	25,666
BUTLER, LINDA.....	THE PHOTODYNAMIC EFFECT OF LIGHT ON DYE-FED INSECTS.....	TMP	2R01 AI10636-03	19,650
CENEDELLA, RICHARD J.....	INVESTIGATIONS OF LIPOLYTIC ACTIVITIES IN TUMOR CELLS.....	PTHB	5R01 CA14700-02	20,274
DAVIDSON, PAUL C.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	SSS	5R01 AM09113-12	54,111
ENLOW, DONALD H.....	STUDY OF CRANIOFACIAL GROWTH AND REMODELING PROCESSES.....	DEN	5R01 DE03761-03	14,441
FLEMING, WILLIAM W.....	MECHANISM OF NONSPECIFIC SUPERSENSITIVITY TO DRUGS.....	PHRA	5R01 NS08300-07	64,825
HAINES, DUANE E.....	CEREBELLAR EVOLUTION AND FUNCTION.....	NEUB	1R01 NS11327-01A1	25,622
HARRIS, CHARLES L.....	RNA SULFURTRANSFERASE IN NORMAL AND CANCER TISSUES.....	SSS	1R01 CA16567-01	26,578
JOHNSEN, DAVID C.....	QUANTITATIONS OF HUMAN PULP INNERVATION.....	DEN	1R23 DE04091-01	8,670
JONES, BARBARA.....	COOPERATIVE STUDY OF ACUTE LEUKEMIA.....	CCI	2R10 CA07757-11	78,078
JONES, JOHN E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05433-14	84,652
KATZ, SAM.....	HEMOGLOBIN: ENVIRONMENTAL STABILITY PROGRAM.....	BBCA	3R01 HL12955-04S1	4,174
KIRK, BILLY E.....	FUNCTION OF LEAD IN TUMORIGENESIS.....	TOX	5R01 ES00826-03	6,367
KOHN, DENNIS F.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	AR	5P06 RR00853-02	12,993
KRAUSE, REGINALD F.....	METABOLIC ROLE OF VITAMIN A.....	NTN	5R01 AM11597-09	27,318
LEE, PING.....	ERYTHROCYTES OF ANIMALS DURING EARLY DEVELOPMENT.....	PHY	5R01 HL13237-05	33,561
LOTSPEICH, FREDERICK J.....	S-ADENOSYLMETHIONINE ANALOGS AS ANTITUMOR AGENTS.....	ET	5R01 CA13776-03	21,585
MARTIN, R BRUCE.....	INVESTIGATION OF BIOELECTRIC PHENOMENA IN BONE.....	AFY	5R01 AM16612-02	50,355
MAWHINNEY, MICHAEL G.....	METABOLISM AND INHIBITION OF PROSTATIC CANCER.....	ET	2R01 CA13103-04	26,705
MORAN, WALTER H, JR.....	THE REGULATION OF ELECTROLYTE BALANCE IN SURGERY.....	SGYB	5R01 GM20085-16	71,344
MORGAN, DAVID Z.....	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE.....	TEC	3R01 HL10515-09S1	3,052
REYER, RANDALL W.....	LENS AND NEURAL RETINA DEVELOPMENT AND REGENERATION.....	VISA	5R01 EY00196-18	21,850
TROTTER, ROBERT R.....	ADRENERGIC AND CHOLINERGIC INTERACTIONS IN THE EYE.....	VISA	5R01 EY01217-02	43,568
TRYFIATES, GEORGE P.....	ROLE OF VITAMIN B6 IN GROWTH OF MORRIS HEPATOMAS.....	NTN	5R01 CA13759-03	17,568
WESTFALL, DAVID P.....	TOLERANCE TO CHOLINESTERASE.....	TOX	5R01 ES00396-07	6,638
ORGANIZATION TOTAL	29	888,039		
<b>SHEPHERDSTOWN</b>				
<b>SHEPHERD COLLEGE</b>	<b>ZIP CODE 25443</b>			
FIALA, SILVIO E.....	THE ROLE OF CARCINOGEN IN NUCLEIC ACID METABOLISM.....	ET	5R01 CA14084-03	47,285
ORGANIZATION TOTAL	1	47,285		
STATE TOTAL	30	935,324		
<b>WISCONSIN</b>				
<b>EAU CLAIRE</b>				
<b>UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-EAU CLAIRE</b>	<b>ZIP CODE 54701</b>			
NAWROT, CHARLES F.....	NUCLEATION OF CALCIFICATION BY HARD TISSUE COLLAGEN.....	GMB	5R01 AM16449-02	24,302
NAWROT, CHARLES F.....	COLLAGEN-MINERAL PHASE INTERACTIONS IN DENTIN.....	GMB	1R01 DE04046-01	48,368
ORGANIZATION TOTAL	2	72,670		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WISCONSIN—Continued</b>				
<b>MADISON</b>				
UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON      ZIP CODE 53706				
ADLER, JULIUS	BIOCHEMISTRY AND GENETICS OF BACTERIAL BEHAVIOR	BM	5R01 AI08746-07	93,475
ALEXANDER, S CRAIGHEAD, JR.	EFFECTS OF ANESTHETICS ON CEREBRAL METABOLISM	PHRA	5R01 NS09870-03	42,963
ALLEN, JAMES R.	CARCINOGENIC POTENTIAL OF THE PYRROLIZIDINE ALKALOIDS	ET	5R01 CA13288-02	52,984
ALLEN, JAMES R.	PATHOBIOLOGICAL RESPONSE OF PRIMATES TO BIPHENYLS	TOX	1R01 ES00958-01	50,897
ALLEN, JAMES R.	PATHOGENESIS OF HEPATIC VENO-OCCLUSIVE DISEASE	TOX	5R01 HL10941-09	39,159
AMIDON, GORDON L.	SUBSTRATE BINDING TO THE PROTEINASE ENZYMES	BBCA	1R01 GM20437-01	24,768
ANDEREGG, JOHN W.	BIOPHYSICAL STUDIES ON MACROMOLECULES	BBCB	5R01 GM10692-13	38,208
ANDERSON, LAURENS	SYNTHESIS OF COMPOUND SACCHARIDES	MCHA	5R01 AM10588-10	27,902
AUERBACH, ROBERT	TOLERANCE TO HETEROLOGOUS ERYTHROCYTES	IMB	5R01 AI11926-02	44,987
AUERBACH, ROBERT	CONTROLLED DIFFERENTIATION OF TUMOR CELLS	PTHB	5R01 CA13548-03	94,654
AZEN, EDWIN A	GENETIC PROTEIN POLYMORPHISMS: SERUM, WBC'S, AND SALIVA	GEN	5R01 DE03658-10	23,168
BACH, FRITZ H	GENETIC FACTORS IN TRANSPLANT SURVIVALS	IMB	5R01 AI08439-08	96,840
BACH, FRITZ H	STUDY OF LYMPHOCYTE BIOLOGY	SSS	5P01 AI11576-03	266,061
BACH, FRITZ H	PROGRAM PROJECT IN TUMOR AND ALLOGRAFT IMMUNITY	CAK	1P01 CA16836-01	346,169
BALISH, EDWARD	THE ETIOLOGY OF CANCER OF THE LARGE BOWEL	SRC	5R26 CA14919-03	83,536
BASS, PAUL	FLOW AND ELECTRIC MEASUREMENTS OF STOMACH-INTESTINE	GMA	1R01 AM18108-01	49,694
BAWDEH, D LEE	ECONOMIC AND NONECONOMIC DETERMINANTS OF MIGRATION	POP	5R01 HD07186-02	5,251
BECK, STANLEY D	PHYSIOLOGY OF INSECT PHOTOPERIODISM	TMP	5R01 GM07557-15	33,168
BEINERT, HELMUT	COMPONENTS AND PATHWAYS IN BIOLOGICAL OXIDATIONS	BBCB	5R01 GM12394-11	101,783
BERGDOLL, MERLIN S	PURIFICATION AND CHEMISTRY OF THE ENTEROTOXINS	TOX	5R01 AI07615-10	100,811
BISGARD, GERALD E	ROLE OF CHEMORECEPTORS IN VENTILATORY CONTROL	AFY	5R01 HL15473-02	30,860
BITTAR, NEVILLE	MULTIPHASE CHEMISTRY OF HUMAN HEART MUSCLE	SGYA	5R01 HL14623-03	18,295
BITTAR, NEVILLE	STUDIES OF MYOCARDIAL REACTIVE HYPEREMIA	SGYB	1R01 HL17759-01	59,886
BLATTNER, FREDERICK R	REGULATORY SITES IN PRO-AND EUKARYOTIC GENOMES	GEN	1R01 GM21812-01	67,487
BOCK, ROBERT M	DETERMINATION OF TRANSFER RIBONUCLEIC ACID STRUCTURE	PC	5R01 GM12395-11	56,135
BOCK, ROBERT M	SUPPORT FOR REGIONAL PRIMATE RESEARCH CENTER	PME	5P06 RR00167-15	1,646,243
BOCK, ROBERT M	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	NSS	5S05 RR07098-10	150,503
BORISY, GARY G	MECHANISM OF MICROTUBULE ASSEMBLY	SSS	1R01 GM21963-01	48,785
BOUSH, GEORGE M	HEALTH HAZARDS OF PESTICIDE TERMINAL RESIDUES	TOX	1R01 ES00877-01	22,448
BOWMAN, ROBERT E	EFFECTS OF LEAD ON FETAL AND NEONATAL DEVELOPMENT	HED	1R01 ES01062-01A1	104,362
BOWMAN, ROBERT E	BEHAVIORAL AND NEUROPATHOLOGICAL EFFECTS OF HALOTHANE	EXP	1R01 GM22685-01A1	75,770
BOWNS, M DERIC	MOLECULAR BIOLOGY OF VISUAL RECEPTOR OUTER SEGMENTS	VIS	5R01 EY00463-07	55,647
BRIGHTBILL, FREDERICK S	CORNEAL PRESERVATION AND KERATOPLASTY IN MONKEYS	VISA	1R23 EY01486-01	9,022
BRILL, WINSTON J	STUDIES OF A FACTOR COMMON TO MOLYBDOENZYMES	MBC	1R01 GM22130-01	41,110
BROWN, RAYMOND R	VITAMIN B6, STEROIDS, AND ANERGY IN CANCER PATIENTS	ET	5R01 CA13302-03	35,402
BROWN, RAYMOND R	ROLE OF TRYPTOPHAN IN BLADDER CARCINOGENESIS	SRC	5R26 CA14552-02	124,304
BRYAN, GEORGE T	FACTORS INFLUENCING BLADDER CARCINOGENESIS	ET	5R01 CA10017-09	78,412
BRYAN, GEORGE T	CARCINOGENICITY AND METABOLISM OF 5-NITROFURANS	ET	5R01 CA11946-06	58,567
BRYAN, GEORGE T	COOPERATIVE CLINICAL STUDY OF CANCER PHARMACOLOGY	CCI	5R10 CA13290-04	208,070
BUCHLER, DOLORES A	CLINICAL CANCER EDUCATION PROGRAM	CEC	1R25 CA18397-01	96,234
BURKHOLDER, PETER M	IMMUNOHISTOPATHOLOGY OF RENAL DISEASES	PTHA	3R01 AM15159-04S1	6,577
BURKHOLDER, PETER M	CELLULAR SYNTHESIS OF COMPLEMENT COMPONENTS	PTHA	5R01 AM16440-02	45,755
BURRIS, ROBERT H	BIOLOGICAL FIXATION OF NITROGEN BY MICROORGANISMS	MBC	5R01 AI00848-20	37,928
CHU, FUN S	IMMUNOCHEMICAL STUDIES ON CARCINOGENIC MYCOTOXINS	BM	5R01 CA15064-02	23,422
CHU, FUN S	INTERACTION OF MYCOTOXINS WITH MACROMOLECULES	TOX	5R01 ES00656-02	34,775
CLARK, ALLEN W	TRANSMITTER RELEASE FROM THE NEUROMUSCULAR JUNCTION	NEUB	5R01 NS11445-02	21,394
CLELAND, W WALLACE	DETERMINATION OF ENZYME MECHANISMS BY KINETIC STUDIES	BIO	5R01 GM18938-04	41,377
CLIFTON, KELLY H	RADIATION IN VITRO; MAMMARY CELL SURVIVAL; NEOPLASIA	RAD	5R01 CA13881-03	79,597
COHEN, PHILIP P	ENZYME BIOSYNTHESIS AND REGULATION: UREA BIOSYNTHESIS	BIO	2R01 CA03571-18	109,753
COLAS, ANTONIO E	COMPARATIVE STUDY OF THE FETOPLACENTAL UNIT	HED	5R01 HD05387-05	41,139
CRIPPS, DEREK J	ACTION SPECTRA AND BIOCHEMISTRY OF PHOTODERMATOSES	GMA	5R01 AM09995-10	25,529
CROW, JAMES F	THE EFFECT OF MUTATION ON FITNESS	GEN	1R01 GM22038-01	95,808
CROWLEY, LAWRENCE	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05435-14	255,345
DAHLBERG, JAMES E	STUDY OF SMALL RNAS OF RNA TUMOR VIRUSES	VR	5R01 CA15166-02	45,868
DAVENPORT, JOHN W	THYROID FUNCTION, LEARNING, AND MOTIVATION	EXP	2R01 HD06060-04	76,914
DAVIES, JULIAN E	MECHANISMS OF ANTIBIOTIC RESISTANCE IN MICROORGANISMS	BM	2R01 AI10076-08	50,424



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WISCONSIN—Continued</b>				
DAVIES, JULIAN E.....	GENETICS & BIOCHEM. OF MACROMOLECULAR SYNTHESIS IN YEAST	MBV	1R01 AI12448-01	45,122
DAVIS, HUGH L. JR.....	COOPERATIVE STUDY OF CANCER OF THE BREAST.....	CCI	2R10 CA04594-15	41,360
DAVIS, LARRY D.....	CELLULAR POTENTIAL CHANGES CAUSING CARDIAC ARRHYTHMIA.....	CVA	2R01 HL13375-06	14,832
DAY, RICHARD H.....	A STUDY OF DYNAMIC WORLD SYSTEM MODELS.....	POP	5R01 HD07565-02	81,921
DE FOILIART, GENE R.....	TRANSMISSION AND CONTROL OF CALIFORNIA-GROUP VIRUSES.....	TMP	2R01 AI07453-09	61,910
DE LUCA, HECTOR F.....	STUDY OF METABOLISM AND FUNCTION OF FAT-SOLUBLE VITAMINS.....	AMP	5P01 AM14881-05	176,259
DE MARS, ROBERT I.....	GENETIC STUDIES WITH CULTIVATED MAMMALIAN CELLS.....	GEN	3R01 GM06983-15S1	12,267
DE MARS, ROBERT I.....	GENETIC STUDIES WITH CULTIVATED MAMMALIAN CELLS.....	GEN	2R01 GM06983-16	125,739
DE VENECIA, GUILLERMO.....	THE EYE IN MALIGNANT HYPERTENSION.....	VIS	5R01 EY01007-02	57,367
DEMPSEY, JEROME A.....	HUMAN VENTILATORY ADAPTATION TO MODERATE HYPOXEMIA.....	AFY	2R01 HL15469-02	20,870
DEMPSEY, JEROME A.....	INTERSTITIAL LUNG DISEASE.....	CVA	1R01 HL17540-01	56,554
DEUTSCH, HAROLD F.....	HUMAN BLOOD PROTEINS.....	PC	5R01 CA01786-21	100,370
DIERSCHE, DONALD J.....	HEMODYNAMIC/HORMONAL CONTROL OF LUTEAL FUNCTION.....	REB	1R01 HD08737-01	56,800
DUNCAN, CHARLES L.....	ENTEROPATHOGENIC FACTOR OF CLOSTRIDIUM PERFRINGENS.....	BM	5R01 AM11865-05	54,641
DURAND, RALPH E.....	INTERCELLULAR CONTACT & CELLULAR RADIOBIOLOGY.....	RAD	1R01 CA17522-01	23,430
EASTERDAY, BERNARD C.....	RECOMBINANT INFLUENZA VIRUS INFECTIONS IN ANIMALS.....	VR	5R01 AI11674-02	48,977
EHRLICH, EDWARD N.....	INSULIN MODE OF ACTION IN TOAD SKINS.....	MET	5R01 AM18104-02	38,465
ELLISON, ROBERT A.....	THE BIOSYNTHESIS OF BREFELEDING A AND JASMONIC ACID.....	MCHB	1R01 GM20057-01	32,709
ENGERMAN, RONALD L.....	STUDY OF DIABETIC RETINOPATHY.....	VIS	5R01 EY00300-10	146,259
FAHLEN, LEONARD A.....	REGULATION OF MAMMALIAN AMINO ACID METABOLISM.....	BIO	5R01 AM14184-06	32,570
FALLON, JOHN F.....	AN ANALYSIS OF CELL DEATH DURING LIMB DEVELOPMENT.....	SSS	1R01 HD07402-01A2	28,113
FERRY, JOHN D.....	VISCOELASTIC PROPERTIES OF BIOLOGICAL MACROMOLECULES.....	BBCA	1R01 GM21652-01	45,690
FITCH, WALTER M.....	STRUCTURAL-FUNCTIONAL-GENETIC RELATIONS OF HEME PROTEINS.....	PC	5R01 AM11582-02	40,270
FOLTS, JOHN D.....	CORONARY FLOW STUDIES OF PARTIALLY OBSTRUCTED VESSELS.....	CVA	5R01 HL15681-03	47,752
FORSTER, FRANCIS M.....	NEUROLOGICAL CLINICAL RESEARCH CENTER (EPILEPSY).....	NSPA	3P01 NS03360-14S1	9,650
GANTHER, HOWARD E.....	SYNTHESIS AND FUNCTION OF ORGANOSelenium COMPOUNDS.....	NTN	5R01 AM14184-06	36,296
GERRITSEN, THEO.....	METABOLIC DISORDERS AND BRAIN DEVELOPMENT.....	MET	1R01 HD08488-01A1	35,424
GIBBONS, WILLIAM A.....	STRUCTURE, SPECTROSCOPY AND FUNCTION OF PEPTIDES.....	BBCB	1R01 AM18604-01	47,386
GILBERT, ENID F.....	MICROCINEMATOGRAPHIC STUDY OF ABNORMAL CARDIOGENESIS.....	CVB	1R01 HL18050-01	22,095
GILBOE, DAVID D.....	METABOLISM OF THE BRAIN.....	NEUB	5R01 NS05961-10	129,498
GOLDFARB, STANLEY.....	CHOLESTEROL METABOLISM IN HEPATIC NEOPLASMS.....	PTHB	5R01 CA15664-02	27,348
GOLDSTEIN, ROBERT.....	AUTOMATED THRESHOLD AUDIOMETRY.....	SSS	2R01 NS09278-04A2	83,911
GORSKI, JACK.....	PROLACTIN IN NORMAL AND NEOPLASTIC PITUITARY TISSUE.....	END	1R01 CA18110-01	42,836
GORSKI, JACK.....	ESTROGEN REGULATION OF UTERINE GROWTH AND FUNCTION.....	REB	2R01 HD08192-03	101,883
GRAHAM, FRANCES K.....	DEVELOPMENT/INHIBITION/FACILITATION OF STARTLE RESPONSE.....	EXP	5R01 HD07035-03	38,956
GREEN, DAVID E.....	STUDY OF MOLECULAR BIOLOGY OF MEMBRANE SYSTEMS.....	SSS	5P01 GM12847-11	459,681
GUILLERY, RAINER W.....	ABNORMALITIES IN VISUAL PATHWAYS.....	VISB	2R01 EY00962-03	37,844
GUILLERY, RAINER W.....	ARCHITECTONIC AND SYNAPTIC ORGANIZATION IN THE BRAIN.....	NEUB	5R01 NS06662-09	76,213
GUILLERY, RAINER W.....	FINE STRUCTURAL ANALYSIS OF NEURONAL ORGANIZATION.....	NEUB	1R01 NS11869-01	25,850
HALL, TIMOTHY C.....	INFECTIVE ROLE OF AMINO ACID BINDING BY VIRAL RNA.....	VR	5R01 AI11572-03	24,032
HANSON, ROBERT P.....	TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES.....	VR	5R01 AI11250-03	86,825
HARPER, ALFRED E.....	EFFECTS OF ALTERED DIET AND PLASMA AMINO ACID PATTERN.....	NTN	5R01 AM10747-09	56,902
HARPER, ALFRED E.....	EFFECT OF DIET AND HORMONES ON ENZYMES AND METABOLISM.....	NTN	5R01 AM10748-09	32,346
HARTING, JOHN K.....	CORTICAL EFFECTS OF SENSORY DEPRIVATION.....	VISB	1R01 EY01277-01A1	30,442
HEBER, RICK F.....	STUDY OF MENTAL RETARDATION.....	HDWR	5P01 HD03352-08	531,930
HIND, JOSEPH E.....	CENTER FOR RESEARCH IN CEREBRAL LOCALIZATION.....	NSPB	2P01 NS06225-11	363,790
HIXON, THOMAS J.....	STUDY OF BREATHING MECHANICS DURING SPEECH.....	CMS	5R01 NS09656-05	16,883
HOKIN, LOWELL E.....	BIOCHEMISTRY OF NAK ATPASE AND CARDIOACTIVE DRUGS.....	PHRA	5R01 HL16318-17	95,343
HONG, RICHARD.....	STUDY AND THERAPY OF IMMUNE DEFICIENCY.....	IMB	5R01 HD07778-03	66,351
HOWE, MARTHA M.....	ANALYSIS OF INTEGRATION MECHANISM OF BACTERIOPHAGE MU.....	GEN	1R01 AI12731-01	24,580
HUTCHINSON, C RICHARD.....	METABOLISM OF NATURALLY OCCURRING ANTITUMOR COMPOUNDS.....	MCHB	7R01 CA17127-01	35,526
HUTCHINSON, C RICHARD.....	BIOGENETIC C-13 ENRICHMENT OF NATURAL PRODUCT DRUGS.....	MCHB	7R01 GM21942-01	30,673
INMAN, ROSS B.....	STRUCTURE AND REPLICATION OF DNA.....	VR	5R01 GM14711-09	102,543
JEFCOATE, COLIN R.....	ANGIOTENSIN, ACTH, AND MINERALOCORTICOID SYNTHESIS.....	END	1R01 AM18585-01	28,810
JOHNSON, ROBERT O.....	COOPERATIVE STUDY OF ONCOLOGY.....	CCI	5R10 CA12271-05	323,810
JOO, PATRICIA A.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	CCI	2R10 CA05436-15	51,417
JURIST, JOHN M.....	LONGITUDINAL STUDY OF SKELETAL STATUS IN WOMEN.....	SGVB	5R01 AM16514-03	25,305
JURIST, JOHN M.....	NONDESTRUCTIVE EVALUATION OF FRACTURE UNION.....	AFY	1R01 AM17804-01	28,347
KAESBERG, PAUL J.....	STRUCTURE OF BIOLOGICAL MACROMOLECULES.....	BBCB	5R01 AI01466-19	112,978
KAESBERG, PAUL J.....	STUDY OF TRANSLATION OF MESSENGER RNA VIRUSES.....	VR	5R01 CA15613-02	70,172

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WISCONSIN—Continued</b>				
KAHAN, LAWRENCE	IMMUNOCHEMICAL ANALYSIS OF 30S RIBOSOME STRUCTURE	PC	1R01 GM22150-01	38,353
KAHN, DONALD R.	STUDY OF CARDIAC ALLOTRANSPLANTATION	SGYA	5R01 HL14455-04	41,055
KALIL, RONALD E.	DEVELOPMENTAL STUDIES OF THE VISUAL SYSTEM	VISB	2R01 EY01331-02	49,556
KARAVOLAS, HARRY J.	STERIOD BIOCHEMISTRY OF THE HYPOTHALAMIC-OVARIAN AXIS	REB	2R01 HD05414-04	53,290
KASPER, CHARLES B.	NORMAL AND TUMOR CELLS NUCLEAR AND MICROSOMAL MEMBRANES	MEY	1R01 CA17300-01	68,415
KEITH, LLOYD B.	SNOWSHOE HARE RESPONSE TO ARBOVIRAL INFECTION	TMP	5R01 AI09801-05	21,902
KELSEY, CHARLES A.	NEUTRON RADIATION CANCER-THERAPY SOURCE	RAD	5R01 CA13469-03	143,767
KENT, RAYMOND D.	SPEECH SOUND IMITATION SKILLS OF CHILDREN AND ADULTS	CMS	1R01 NS12281-01	26,627
KORNGUTH, STEVEN E.	BIOCHEMISTRY OF ISOLATED SYNAPTIC COMPLEXES	NEUB	5R01 NS05631-09	52,742
KUBINSKI, HENRY A.	INTERMOLECULAR CROSS-LINKS IN CHEMICAL TUMORIGENESIS	ET	1R01 CA16989-01	40,394
KUNG, CHING	GENETIC DISSECTION OF CILIA AND MEMBRANE	GEN	7R01 GM22714-01	49,789
LARDY, HENRY A.	CONTROL PROCESSES IN MAMMALIAN CELLS	PC	5R01 AM10334-10	216,170
LARDY, HENRY A.	CARBOHYDRATE METABOLISM	PC	5R01 HD08630-02	51,915
LICHTENSTEIN, E. PAUL	REDUCTION OF HAZARDS WITH INSECTICIDES OF PLANT ORIGIN	TOX	1R01 ES00861-01	52,699
LILJEN, JACK E.	DEVELOPMENTAL ASPECTS OF CELL SURFACES	MEY	5R01 HD06856-03	41,180
LIPTON, BRUCE H.	DEVELOPMENTAL ANALYSIS OF MUSCULAR DYSTROPHY	PTMB	1R01 NS12171-01	38,440
LOWER, GERALD M., JR.	METABOLIC FACTORS INVOLVED IN BLADDER CARCINOGENESIS	SRC	5R26 CA14524-03	99,668
MANGOS, JOHN A.	STUDIES OF EXOCRINE GLAND FUNCTION IN CYSTIC FIBROSIS	SSS	5R01 AM06365-13	71,441
MANNING, DEAN D.	MECHANISM AND USES OF ANTI-IG IMMUNOSUPPRESSION	ALY	1R01 CA17531-01	31,305
MARTIN, ALEXANDER H.	EFFECT OF LEAD ON THE DEVELOPING NERVOUS SYSTEM	TOX	1R01 ES00955-01	27,931
MATSUMURA, FUMIO	MECHANISMS OF INSECTICIDE DEGRADATION	TOX	1R01 ES00857-01	43,751
MAZESS, RICHARD B.	BONE AND TISSUE GROWTH IN CHILDREN	EDC	5R01 AM12635-02	32,907
MAZESS, RICHARD B.	TOTAL BODY BONE MINERAL BY DICHROMATIC ABSORPTOMETRY	GMB	1R01 AM17892-01	29,749
MEITZENBERG, ROBERT L., JR.	THE GENETIC CONTROL OF PROTEIN SYNTHESIS	SSS	5R01 GM08995-14	66,575
MILLER, JAMES A.	METABOLIC ACTIVATION OF CHEMICAL CARCINOGENS	ET	5R01 CA15785-02	68,651
MUELLER, GERALD C.	MOLECULAR EVENTS CONTROLLING CELL DIVISION	MEY	1R01 GM12262-01	26,119
MUKERJEE, PASUPATI	BILE SALTS AS ATYPICAL SURFACTANTS AND SOLUBILIZERS	BBCB	5R01 AM17281-02	31,488
MUNKRES, KENNETH D.	MOLECULAR BIOLOGY OF AGING OF FUNGI AS MODELS	GEN	3R01 GM21205-01S1	1,035
NELSON, DAVID L.	FUNCTIONAL DIFFERENTIATION IN BACTERIAL MEMBRANES	MBC	2R01 GM19499-04	44,300
NOMURA, MASAYASU	GENETICS AND BIOCHEMISTRY OF RIBOSOME BIOSYNTHESIS	GEN	5R01 GM20427-03	155,913
NORRIS, DALE M.	UTILITY OF XYLEBORUS AS MODEL FOR BIOMEDICAL RESEARCH	AR	5P06 RR00779-03	28,690
O'LEARY, MARION H.	MECHANISM OF ACTION OF ASPARAGINASE	BIO	1R01 CA16980-01	14,154
O'LEARY, MARION H.	COENZYME BINDING AND NERVOUS DISORDERS	BIO	5R01 NS07657-08	58,807
OLSEN, WARD A.	INTESTINAL MUCOSAL FUNCTION IN DIABETES	GMA	5R01 AM13927-06	18,093
OLSON, CARL	PATHOGENESIS OF VIRUS (BOVINE) INDUCED LYMPHOSARCOMA	VR	5R01 CA13628-03	75,152
OPITZ, JOHN M.	PROGRAM PROJECT IN CLINICAL GENETICS	SSS	5R01 GM20130-02	395,737
ORME-JOHNSON, WILLIAM H., III	EPR AND X-RAY STUDIES OF ELECTRON-TRANSFER ENZYMES	BBCB	3R01 GM17170-04S1	7,286
ORSINI, MARGARET W.	COMPARATIVE UTERINE VASCULATURE	REB	5R01 HD00267-17	58,942
OSBORN, JUNE E.	VIRULENCE AND ATTENUATION OF CYTOMEGALOVIRUSES	VR	1R01 AI12515-01	32,559
OSBORN, JUNE E.	BIOCHEMICAL STUDIES OF HUMAN PAPAPOVAVIRUS JC	VR	1R01 CA16582-01	51,324
PATE, JACK L.	SUBCELLULAR STRUCTURES OF PROCARYOTIC ORGANISMS	MBC	5R01 GM19859-03	29,538
PERLMAN, DAVID	MICROBIAL METABOLITE INHIBITION OF TUMOR B12 BINDING	ET	5R01 CA16904-02	38,739
PERLMAN, DAVID	GENERAL RESEARCH SUPPORT GRANT	NSS	5S01 RR05456-13	60,584
PETERSON, RICHARD E.	ENVIRONMENTAL POLLUTANTS AND TOXICOLOGY OF THE LIVER	TOX	1R01 ES01332-01	38,092
PITOT, HENRY C.	PATHOLOGY OF BIOCHEMICAL DISORDERS IN VITRO	SSS	5R01 AM13660-05	63,403
PITOT, HENRY C.	CANCER RESEARCH AT THE MCARDLE LABORATORY	CAP	5P01 CA07175-12	2,735,950
PORTER, JOHN W.	ENZYMATIC SYNTHESIS OF CHOLESTEROL AND FATTY ACIDS	BIO	5R01 AM01383-19	43,134
POTTER, VAN R.	ONCOGENY AS BLOCKED ONTOGENY: STUDIES OF LIVER CANCER	PTMB	1R01 CA17334-01	172,097
RAMIREZ, GUILLERMO	COOPERATIVE STUDY OF ONCOLOGY	CCI	5R10 CA12272-05	40,209
RANKIN, JOHN H.	CROSS-FLOW EXCHANGE IN THE MAMMALIAN PLACENTA	HED	5R01 HD06333-03	7,825
RAPER, KENNETH B.	GROWTH AND DEVELOPMENT IN CELLULAR SLIME MOLDS	CBY	2R01 AI04915-20	41,492
REED, CHARLES E.	ALLERGIC DISEASE CENTER	AIRC	5P15 AI10404-05	92,648
REZNIKOFF, WILLIAM S.	TRANSCRIPTION AND TRANSLATION REGULATORY SIGNALS	MBC	5R01 GM19670-03	42,509
RHODE, WILLIAM S.	SUPPORT OF LABORATORY COMPUTER FACILITY	SSS	5P07 RR00249-10	238,891
RIBELIN, WILLIAM E.	CREATION OF RESEARCH ANIMAL RESOURCES PROGRAM	AR	1P06 RR00952-01	106,228
RICH, DANIEL H.	SYNTHESIS, CONFORMATION, AND MODE OF ACTION OF TENOTOXIN	MCHA	2R01 GM19311-04	59,463
RICHARDSON, THOMAS	MACROMOLECULES IMMOBILIZED IN VIVO AND CANCER THERAPY	ET	1R01 CA16817-01	25,185
RINKERS, HENRY	METABOLISM AND PROTEIN-BINDING OF 3H-VITAMIN D3	GMB	3R01 HD05056-03S1	4,575
RIS, HANS	SUBMICROSCOPIC ORGANIZATION OF CHROMOSOMES	MEY	5R01 GM04738-19	54,419



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WISCONSIN—Continued</b>				
RIS, HANS	ELECTRON MICROSCOPE FACILITY FOR BIOMEDICAL RESEARCH	MBY	2P07 RR00570-05	88,339
ROBINSON, JOSEPH R.	QUANTITATION OF PRECORNEAL DRUG MOVEMENT IN THE EYE	VISA	1R01 EY01332-01	15,931
ROSE, DAVID P.	PITUITARY AND THYROID FUNCTION IN BREAST CANCER	END	1R01 CA17579-01	34,688
ROSS, LEONARD E.	DEVELOPMENTAL PROCESSES IN CHILDREN AT RISK FOR MR	HDMR	5P01 HD08240-02	246,763
ROWND, ROBERT H.	THE CONTROL OF THE REPLICATION OF BACTERIAL EPISODES	GEN	5R01 GM14398-09	78,425
RUDY, THOMAS A.	ACH AND CNS THERMOREGULATORY PROCESSES	NEUB	5R01 NS11175-03	30,255
RUECKERT, ROLAND R.	STRUCTURE OF PICORNAVIRUSES AND LEUKOVIRUSES	VR	5R01 CA08662-10	60,224
RUOHO, ARNOLD E.	MOLECULAR CHARACTERIZATION OF BADNERGIC RECEPTORS	PHRA	1R01 NS12392-01	36,588
RUSCH, HAROLD P.	SUPPORT FOR CANCER RESEARCH CENTER	CAP	5P02 CA14520-03	2,031,865
RUSCH, HAROLD P.	SUPPORT FOR BIOMETRICS AT CLINICAL CANCER CENTER	CAP	3P01 CA14520-03S1	185,342
SCHALLER, M. JOSEPH	CHROMATIC VISION IN INFANCY: OPERANT CONDITIONING	EXP	1R01 HD09322-01	22,448
SCHULTZ, LORIS H.	KETOGENESIS IN THE RUMINANT	MET	5R01 AM08546-11	22,231
SEGAR, WILLIAM E.	EFFECT OF CARDIAC DISEASES ON ADH RELEASE	CVA	5R01 HL13880-05	15,778
SHRAGO, EARL	REGULATION OF LIPID METABOLISM IN HUMAN ADIPOSE TISSUE	PC	5R01 AM15893-02	33,330
SHRAGO, EARL	CONTROL MECHANISMS IN GLUCONEOGENESIS	PC	5R01 GM14033-09	52,815
SHUG, AUSTIN L.	METABOLIC CHANGE DURING CARDIAC ISCHEMIA	CVB	1R01 HL17736-01	52,966
SIEGEL, FRANK L.	BRAIN PROTEIN AND RNA SYNTHESIS IN HYPERAMINOACIDEMIAS	MET	1R01 HD09045-01	44,032
SIEGEL, FRANK L.	CALCIUM-BINDING PROTEINS IN NERVOUS TISSUE	BBCB	5R01 NS11652-02	59,041
SIH, CHARLES J.	PENICILLIN BIOSYNTHESIS AND RELATED PEPTIDE CHEMISTRY	MCHA	2R01 AI10519-04	61,374
SIH, CHARLES J.	CHEMICAL AND MICROBIOLOGICAL SYNTHESIS OF HORMONES	MCHA	5R01 AM04874-14	42,899
SIH, CHARLES J.	PROSTAGLANDINS AND OTHER PHYSIOLOGICALLY-ACTIVE LIPIDS	PC	2R01 AM09688-11	49,512
SILVERMAN, ANN-JUDITH	DEVELOPMENT OF THE ENDOCRINE HYPOTHALAMUS	END	1R01 HD09436-01	24,850
SIMPSON, DAVID P.	ACID-BASE BALANCE REGULATION OF RENAL METABOLISM	GMB	7R01 AM18351-01	38,258
SIMPSON, DAVID P.	ACID-BASE BALANCE REGULATION OF RENAL METABOLISM	GMB	2R01 AM18351-02	117,836
SMITH, DONALD W.	IMMUNITY IN EXPERIMENTAL AIRBORNE TUBERCULOSIS	BM	2R22 AI07485-08A2	49,068
SMITHIES, OLIVER	GENETIC CONTROL OF PROTEIN STRUCTURE AND SYNTHESIS	GEN	5R01 GM20069-03	137,339
SNOWDON, CHARLES T.	CONTROL MECHANISMS OF PATHOLOGICAL FEEDING BEHAVIORS	EXP	5R01 AM17171-02	51,484
SOBKOWICZ, HANNA M.	DEVELOPMENT OF CENTRAL NERVOUS TISSUE IN CULTURE	NEUB	2R01 NS08626-07	48,536
STEELE, THOMAS H.	UNIVERSITY OF WISCONSIN PROGRAM PROJECT IN NEPHROLOGY	AMP	3P01 AM15512-03S1	25,256
STONE, WILLIAM H.	BIOCHEMICAL & GENETIC STUDIES OF TYPE-SPECIFIC ANTIGENS	GEN	5R01 AI03204-15	81,872
STONE, WILLIAM H.	IMMUNOGENETICS AND REPRODUCTION IN RHESUS MONKEYS	GEN	5R01 HD07385-02	62,004
STRETTON, ANTONY O.	FUNCTIONAL ANALYSIS OF THE NERVOUS SYSTEM	NEUB	3R01 NS10509-03S1	13,398
SUNDARALINGAM, MUTTAIYA	X-RAY STUDIES ON NUCLEIC ACID CONSTITUENTS	BBCA	2R01 GM17378-06	86,765
SUNDARALINGAM, MUTTAIYA	X-RAY DIFFRACTION STUDIES ON TRNAS	BBCA	5R01 GM18455-04S1	7,362
SUSMAN, MILLARD	STUDY OF GENETICS	SSS	5P01 GM15422-08	804,926
SUTTIE, JOHN W.	NUTRITIONAL AND METABOLIC EFFECTS OF FLUORIDES	TOX	5R01 AM15521-04	50,498
SWEET, JAMES A.	STUDY OF POPULATION RESEARCH	HDPR	2P01 HD05876-04	324,107
SWEET, JAMES A.	STUDY OF CHANGING PATTERNS OF FERTILITY	POP	5R01 HD07682-03	100,825
SWICK, ROBERT W.	PROTEIN TURNOVER IN PROTEIN AND CALORIE DEPRIVATION	NTN	5R01 AM14704-05	33,967
TAKAYAMA, KUNI K.	MECHANISM OF ACTION OF ISONIAZID ON TUBERCLE BACILLUS	MBC	5R01 AI11297-03	35,727
THOMPSON, WAYNE H.	LA CROSSE ARBORVIRUS STUDIES IN FORESTED AREAS	VR	5R01 AI11547-03	64,501
TOREN, E. CLIFFORD, JR.	LIQUID CHROMATOGRAPHY AUTOMATION FOR ISOZYME ANALYSES	BIO	1R01 GM21752-01	77,318
TROST, BARRY M.	STERIODS, PROSTAGLANDINS, ETC. SYNTHETIC DESIGNS	MCHA	5R01 GM13598-10	52,413
TULUNAY-KEESEY, ULKER.	VISUAL PROCESSES WITH A MOTIONLESS RETINAL IMAGE	VISB	3R01 EY00308-08S1	16,222
UEHLING, DAVID T.	PROTECTIVE ROLE OF URINARY IMMUNOGLOBULINS	SGYA	5R01 AM14945-05	37,295
UPDIKE, STUART J.	IMMOBILIZED ENZYMES TO ANALYZE AND ALTER METABOLISM	SSS	5R01 GM16133-08	55,736
UPDIKE, STUART J.	NEW APPROACH TO EXTRACORPOREAL RESPIRATORY GAS EXCHANGE	SGYB	5R01 HL15668-03	59,039
VAN RYZIN, JOHN R.	STATISTICAL PROBLEMS IN CLINICAL CANCER RESEARCH	COM	1R01 CA18332-01	44,602
VEDEJS, EDWIN	SYNTHESIS OF CYTOCHALASINS OF VARIABLE RING SIZE	MCHA	1R01 CA17918-01	51,524
WALKER, DUARD L.	STUDY OF A NEW HUMAN PAPOVA VIRUS	VR	5R01 AI11217-03	95,854
WANG, CHING Y.	PREVENTION OF FANFT URINARY BLADDER TUMORIGENESIS	SRC	1R26 CA17449-01	68,314
WASSERMAN, GERALD S.	INTRACELLULAR STUDIES OF TEMPORAL SUMMATION	VISB	1R01 NS12283-01	27,464
WEISBLUM, BERNARD	STUDIES OF HUMAN CHROMOSOMAL DNA	GEN	5R01 GM20871-02	35,061
WELLING, PETER G.	FACTORS INFLUENCING GASTROINTESTINAL DRUG ABSORPTION	PHRA	5R01 GM20327-02	32,562
WEN, SUNG-FENG	PHOSPHATE TRANSPORT IN REMNANT KIDNEY	GMB	5R01 AM16435-02	24,457
WEN, SUNG-FENG	MICROPUNCTURE STUDY OF RENAL GLUCOSE TRANSPORT	GMB	5R01 AM17503-02	28,232
WENTWORTH, BERNARD C.	GROWTH HORMONE AS A DETERMINANT OF INHERENT GROWTH	END	1R01 HD08474-01A1	24,811
WHITLOCK, HOWARD W. JR.	BIOLOGICAL MODIFICATION OF THE ANSAMYCINS	MCHA	5R01 AI11232-02	77,350
WILKEN, DAVID R.	STUDIES ON BASEMENT MEMBRANES	MBY	5R01 AM16138-04	29,534
WOODSON, ROBERT D.	EFFECT OF ALTERED OXYGEN AFFINITY ON OXYGEN TRANSPORT	CVA	1R01 HL17808-01	60,324



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WISCONSIN—Continued</b>				
WOOLSEY, CLINTON N.....	COMPARATIVE STUDIES ON MAMMALIAN NERVOUS SYSTEM.....	SRC	5R01 NS03641-09	34,102
WOOLSEY, CLINTON N.....	STUDY OF CEREBRAL LOCALIZATION.....	NSPB	5P01 NS06225-10	499,965
YALE, CHARLES E.....	SUPPORT FOR ANIMAL CARE FACILITY.....	AR	5P06 RR00821-02	44,946
YATVIN, MILTON B.....	RADIATION EFFECT ON PROTEIN AND NUCLEIC ACID METABOLISM.....	BIO	5R01 CA08318-08	41,114
YATVIN, MILTON B.....	RADIATION & DRUG EFFECTS IN NORMAL & NEOPLASTIC TISSUE.....	RAD	1R01 CA16577-01	25,322
YATVIN, MILTON B.....	REPAIR AND SURVIVAL IN IRRADIATED CELLS.....	RAD	1R01 CA16579-01A1	37,990
YODA, ATSUNOBU.....	CARDIOTONIC STEROID-NAK ATPASE INTERACTIONS.....	BIO	1R01 HL16549-01A1	48,934
YU, HYUK.....	MEMBRANE FLUIDITY & PHOTORECEPTOR FUNCTION.....	BBCB	1R01 EY01483-01	21,003
ZACHMAN, RICHARD D.....	THE METABOLISM OF THE ISOLATED PERFUSED NEWBORN LUNG.....	HED	5R01 HD05837-03	21,523
ZACHMAN, RICHARD D.....	ENZYMES FOR SYNTHESIS OF LECITHIN IN NEONATAL LUNG.....	HED	5R01 HL17239-02	58,983
ZIMMERMAN, HOWARD E.....	PHOTOCHEMISTRY OF ORGANIC MOLECULES.....	MCHB	5R01 GM07487-14	56,014
ZIMMERMAN, HOWARD E.....	PHOTOCHEMISTRY OF ORGANIC MOLECULES.....	MCHA	2R01 GM07487-15	98,275
ZU RHEIN, GABRIELE M.....	MORPHOLOGY OF CHRONIC VIRAL INFECTIONS OF THE BRAIN.....	PTHA	5R01 NS11129-03	57,083
ORGANIZATION TOTAL	248	24,019,391		
<b>MARSHFIELD</b>				
<b>MARSHFIELD MEDICAL FOUNDATION      ZIP CODE 54449</b>				
MARX, JAMES J, JR.....	COMPLEMENT IN HYPERSENSITIVITY PNEUMONITIS.....	YIP	1R23 HL18373-01	37,663
ORGANIZATION TOTAL	1	37,663		
<b>MILWAUKEE</b>				
<b>MARQUETTE UNIVERSITY      ZIP CODE 53233</b>				
KRISHNAKUMARAN, ALAPATI.....	REPROGRAMMING AND DNA SYNTHESIS IN EPIDERMAL CELLS.....	MBY	1R01 HD08089-01A2	33,267
PIACEK, BELA E.....	ENVIRONMENTAL ROLES IN SEXUAL MATURATION.....	REB	5R01 HD04375-05	30,458
UNSWORTH, BRIAN R.....	ORGANOGENESIS DURING MAMMALIAN EMBRYONIC DEVELOPMENT.....	HED	5R01 HD06246-03	38,838
UNSWORTH, BRIAN R.....	BIOCHEMICAL PARAMETERS OF AGING BRAIN.....	NEUB	1R01 NS12334-01	64,809
ORGANIZATION TOTAL	4	167,372		
<b>MEDICAL COLLEGE OF WISCONSIN      ZIP CODE 53233</b>				
AMMON, HELMUT V.....	BILE ACIDS, FATTY ACIDS AND INTESTINAL FUNCTION.....	GMA	1R01 AM17941-01	44,351
ANKEL, HELMUT K.....	ENZYMATIC INTERCONVERSIONS OF SUGAR NUCLEOTIDES.....	SSS	2R01 GM20331-07A2	31,663
BARBORIAK, JOSEPH J.....	STUDY OF LIPEMIAS AND RECONSTRUCTIVE CARDIAC SURGERY.....	SGYA	5R01 HL14378-04	65,237
BARBORIAK, JOSEPH J.....	MODIFICATION OF LUNG IMMUNE RESPONSES.....	CVA	5R01 HL17691-02	9,440
BORELLA, LUIS D.....	IMMUNOCOMPETENT CELLS IN ACUTE LYMPHOCYTIC LEUKEMIA.....	IMB	7R01 CA18602-01	45,301
CALVERT, DEANE N.....	ADRENERGIC COMPONENTS OF LIPID METABOLISM.....	PHRA	5R01 AM07681-10	33,801
CALVERT, DEANE N.....	STUDIES ON EXPERIMENTAL SHOCK.....	PHRA	5R01 HL07564-14	34,803
CATLIN, B WESLEY.....	DEOXYRIBONUCLEIC ACIDS AND NUCLEASES OF BACTERIA.....	MBC	5R01 AI02353-17	22,728
CURTIS, ROBIN L.....	TRANSFER OF NEUROMUSCULAR MUTANTS TO STANDARD STRAINS.....	NEUB	2R01 NS07680-08	47,458
DAVIS, STARKEY D.....	EXPERIMENTAL PSEUDOMONAS CHEMOTHERAPY.....	BM	7R01 AI13148-01	28,563
DAVIS, STARKEY D.....	EXPERIMENTAL PSEUDOMONAS KERATITIS.....	BM	1R01 EY01665-01	34,976
DODDS, WYLIE J.....	STUDY OF ESOPHAGEAL MOTION IN HEALTH AND DISEASE.....	SGYA	5R01 AM15540-04	24,680
EDELHAUSER, HENRY F.....	PATHOGENESIS OF CORNEAL EDEMA AFTER CATARACT SURGERY.....	VISA	5R01 EY00933-03	34,330
FINK, JORDAN N.....	SUPPORT FOR PULMONARY DISEASE RESEARCH CENTER.....	SRC	5P17 HL15389-04	820,763
FREERMAN, FRANK E.....	STUDIES ON LIPID TRANSPORT.....	MBC	5R01 AM15527-04	12,553
FUJIMOTO, JAMES M.....	ALTERATION IN DRUG METABOLISM BY CERTAIN CARBAMATES.....	PHRA	3R01 GM16503-06S1	6,165
FUJIMOTO, JAMES M.....	ALTERATION IN DRUG METABOLISM BY CERTAIN CARBAMATES.....	PHRA	2R01 GM16503-07	45,244
GIROTTI, ALBERT W.....	PHOTOCHEMISTRY OF THE BILIRUBIN-SERUM ALBUMIN COMPLEX.....	BBCA	5R01 HD07753-02	24,192
GROSSBERG, SIDNEY E.....	METABOLIC STUDIES OF VIRAL-INDUCED HYPERLIPEMIAS.....	MET	5R01 HL14933-03	29,480
HEBERT, LEE A.....	INTRARENAL PRESSURE AND RENAL FUNCTION.....	CVB	5R01 HL13323-06	33,649
ITSKOVITZ, HAROLD D.....	SURGICAL AND PHYSIOLOGIC STUDIES OF ISOLATED KIDNEYS.....	SGYA	2R01 HL12677-07	116,924
KALKHOFF, RONALD K.....	METABOLIC EFFECTS OF INSULIN ANTAGONISM AND DEFICIENCY.....	MET	2R01 AM10305-10	33,270
KAMPINE, JOHN P.....	SYMPATHETIC AFFERENT ACTIVITY OF CARDIAC ORIGIN.....	CVB	1R01 HL16511-01A2	28,580
KASSELL, BEATRICE.....	GASTRIC ZYMOGENS, PROTEASES, AND INHIBITORS.....	BIO	5R01 AM09826-10	41,578
KEMP, ROBERT G.....	ALLOSTERIC PROPERTIES OF PHOSPHOFRUCTOKINASE.....	PC	5R01 AM11410-09	39,191
KEMP, ROBERT G.....	METABOLIC EVENTS IN VIRUS-INDUCED LEUKEMOGENESIS.....	BIO	1R01 CA16539-01	60,908
KERRIGAN, GERALD A.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05434-14	178,838
KLITGAARD, HOWARD M.....	SOMATOMEDIN, SOMATOTROPHIN AND THYROXINE RELATIONSHIP.....	END	1R01 HD08164-01A1	24,988

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WISCONSIN—Continued</b>				
LECH, JOHN J.....	METABOLISM OF ENVIROMENTAL CONTAMINANTS BY FISH.....	TOX	1R01 ES01080-01A1	26,053
LEMANN, JACOB, JR.....	SUGAR INGESTION, CALCUIRIA, CRYSTALLURIA, AND STONES.....	GMB	2R01 AM15089-06	66,143
LENNON, EDWARD J.....	RADIATION THERAPY RESEARCH AND CLINICAL CENTER.....	SRC	2P01 CA12982-03	52,318
LENNON, EDWARD J.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17986-01	113,778
LEWIS, JOSEPH D.....	PROTEOLYTIC ENZYMES IN HEMORRHAGIC SHOCK.....	SGYB	1R01 GM22284-01	25,185
LONG, SALLY Y.....	CRANIAL BASE AND PALATE DEVELOPMENT.....	DEN	1R01 DE04041-01	34,656
MALIK, KAFAT U.....	ANGIOTENSIN, PROSTAGLANDINS-ADRENERGIC INTERACTIONS.....	CVB	1R01 HL17530-01	41,402
MC CARTY, DANIEL J.....	STUDIES OF CRYSTAL DEPOSITION DISEASE.....	GMA	5R01 AM18074-02	38,590
MC CARTY, DANIEL J.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	5M01 RR00058-14	19,810
MEHLER, ALAN H.....	STRUCTURAL AND BIOLOGICAL PROPERTIES OF TRNA.....	PC	5R01 GM13037-11	69,460
MURPHY, JEROME V.....	ENZYMATIC DETECTION OF NEURODEGENATIVE DISORDERS.....	MET	7R01 HD09842-01	27,426
MURRAY, M PATRICIA.....	KINEMATIC STUDIES OF NORMAL AND ABNORMAL LOCOMOTION.....	SSS	2R01 AM13854-12	58,872
PINKEL, DONALD.....	CANCER CENTER SUPPORT GRANT (SPECIALIZED).....	CAP	1P01 CA17700-01	197,601
PINKEL, DONALD.....	COMBINATION CHEMOTHERAPY IN CHILDHOOD LEUKEMIA.....	ET	1R01 CA17851-01	39,398
QUICK, ARMAND J.....	TELANGECTASIA AND ASPIRIN INTOLERANCE IN HEMOPHILIA.....	HEM	5R01 HL01612-29	39,725
SANCES, ANTHONY, JR.....	NONINVASIVE EVALUATION OF TRAUMA PATIENTS.....	SGYB	5R01 GM19680-02	82,508
SOERGEL, KONRAD H.....	PATHOPHYSIOLOGY OF DIARRHEA.....	GMA	1R01 AM18526-01	59,404
STEKIEL, WILLIAM J.....	VASCULAR MUSCLE REACTIVITY IN HYPERTENSION.....	CVB	1R01 HL16454-01A1	28,476
SWARTZ, HAROLD M.....	PARAMAGNETIC CHANGES DURING TUMOR DEVELOPMENT.....	RAD	1R01 CA13341-01A2	26,977
SWARTZ, HAROLD M.....	EFFECT OF PARTIAL HEPATECTOMY ON RADIATION TOLERANCE.....	RAD	1R01 CA16088-01A1	30,053
TAKETA, FUMITO.....	STRUCTURE AND FUNCTION OF HEMOGLOBIN.....	BIO	2R01 AM15770-07	54,964
THATCHER, L GILBERT.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	CCI	2R01 CA11075-07	27,844
VAN HORN, DIANE L.....	REGENERATIVE CAPACITY OF CORNEAL ENDOTHELIUM.....	VISA	1R01 EY01436-01A1	32,637
ORGANIZATION TOTAL	51	3,146,934		
<b>MILWAUKEE BLOOD CENTER ZIP CODE 53233</b>				
DUQUESNOY, RENE J.....	PREVENTION OF IMMUNODEFICIENCY.....	IMB	5R01 AI12507-02	31,750
ORGANIZATION TOTAL	1	31,750		
<b>MILWAUKEE CHILDREN'S HOSPITAL ZIP CODE 53233</b>				
PINKEL, DONALD P.....	CLINICAL CANCER EDUCATION PROGRAM.....	CEC	1R25 CA17997-01	46,548
ORGANIZATION TOTAL	1	46,548		
<b>MOUNT SINAI MEDICAL CENTER ZIP CODE 53233</b>				
TRUITT, ROBERT L.....	ADOPTIVE IMMUNOTHERAPY IN DECONTAMINATED AKR MICE.....	ET	1R01 CA18440-01	42,067
ORGANIZATION TOTAL	1	42,067		
<b>UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MILWAUKEE ZIP CODE 53201</b>				
MC FARLAND, JAMES T.....	RESONANCE RAMAN PROBE STUDIES OF BIOMOLECULES.....	BBCB	1R01 GM21916-01	35,731
PETERING, DAVID H.....	INVESTIGATION OF THE ANTITUMOR ACTIVITY OF CUKTS.....	ET	3R01 CA13099-03S1	1,956
PETERING, DAVID H.....	STUDY OF METAL CHEMISTRY OF THIOSEMICARBAZONES.....	MCHB	5R01 CA16156-02	48,932
PHILLIPS, RUTH B.....	CYTOGENETIC MARKERS IN SICKLE CELL FAMILIES.....	HEM	1R01 AM16886-01A1	34,979
SHAH, VIPINCHANDRA L.....	NUMERICAL MODELING OF BLOOD OXYGENATION UNITS.....	CVA	3R01 HL15975-01S1	3,061
WARREN, RICHARD M.....	STUDIES IN SPEECH PERCEPTION.....	DBR	1R01 HD07855-01A1	53,782
ORGANIZATION TOTAL	6	178,441		
STATE TOTAL	315	27,742,836		
<b>WYOMING</b>				
<b>LARAMIE</b>				
<b>UNIVERSITY OF WYOMING ZIP CODE 82070</b>				
BARDEN, ROLAND E.....	AFFINITY LABELS FOR ACYL-CoA UTILIZING ENZYMES.....	BIO	5R01 GM20077-02	35,796
DUNN, THOMAS G.....	ENDOCRINE EFFECTS OF INTRAUTERINE GROWTH RETARDATION.....	NED	1R01 HD08824-01	35,155
HALEY, BOYD E.....	APPLICATION OF PHOTO AFFINITY NUCLEOTIDE ANALOGS.....	PC	1R01 GM21998-01	37,667
KAISER, IVAN I.....	EFFECTS OF 5-FLUOROURACIL AND 2-THIOURACIL ON RNA.....	PC	5R01 GM20326-02	33,186
KAISER, IVAN I.....	SELENIUM IN BIOLOGICAL MACROMOLECULES.....	PC	1R01 GM22093-01	31,458

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>WYOMING—Continued</b>				
KITCHIN, ROBERT M.....	STRUCTURE OF HUMAN MITOTIC AND MEIOTIC CHROMOSOMES.....	GEN	5R01 GM20491-02	24,608
SMITH, DAVID V.....	ADAPTATION AND SENSORY CODING IN TASTE.....	CMS	2R01 NS10211-03A1	18,206
ORGANIZATION TOTAL	7 216,076			
STATE TOTAL	7 216,076			
<b>PUERTO RICO</b>				
<b>MAYAGUEZ</b>				
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO AT MAYAGUEZ		ZIP CODE 00708		
MISKIMEN, GEORGE W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	3S06 RR08103-01S2	5,626
ORGANIZATION TOTAL	1 5,626			
<b>PONCE</b>				
CATHOLIC UNIVERSITY OF PUERTO RICO		ZIP CODE 00731		
CARRASQUILLO, ARNALDO.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08067-04	109,865
ORGANIZATION TOTAL	1 109,865			
<b>SAN JUAN</b>				
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO AT RIO PIEDRAS		ZIP CODE 00931		
ADAM, WALDEMAR.....	BIOGENESIS AND SYNTHESIS OF PROSTANOID ENDOPEROXIDES.....	MCHA	1R01 GM22119-01	51,216
HILLYER, GEORGE V.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	GRS	5S06 RR08102-03	237,909
ORGANIZATION TOTAL	2 289,125			
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS		ZIP CODE 00936		
ALVARADO, FRANCISCO.....	FUNCTIONAL ORGANIZATION OF THE INTESTINAL BRUSH BORDER.....	PHY	5R01 AM17750-02	41,110
BRUSH, JAMES S.....	INSULIN PROTEASE-PURIFICATION, MECHANISM, INHABITION.....	PC	7R01 AM18632-01	20,870
DE MELLO, WALMOR C.....	EFFECTS OF HORMONES ON CARDIAC ELECTROGENESIS.....	CVA	2R01 HL10897-10	34,850
DEL CASTILLO, JOSE.....	STUDY OF NEUROBIOLOGY.....	NSPB	5P01 NS07464-08	123,916
GIROD, CARLOS E.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	CLR	2M01 RR00063-13	467,113
GIROD, CARLOS E.....	GENERAL RESEARCH SUPPORT GRANT.....	NSS	5S01 RR05419-14	92,268
HADDOCK, LILLIAN.....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	SSS	5R01 AM07601-12	40,113
MARCIAL, VICTOR A.....	COOPERATIVE STUDY OF RADIATION THERAPY.....	CCI	5R10 CA12258-04	61,580
MARTINEZ, M ISIDRO.....	STUDY OF CANCER OF THE COLON AND RECTUM.....	SRC	5R26 CA14976-02	15,826
PEREZ-SANTIAGO, ENRIQUE.....	CANCER CENTER SUPPORT GRANT.....	CAP	1P01 CA16598-01	706,878
SANTIAGO-DELPIN, EDUARDO A.....	CONTROLLED RADIATION INJURY TO THE LIVER.....	RAD	1R01 CA16810-01	13,880
VELEZ-GARCIA, ENRIQUE O.....	SOUTHEASTERN CANCER STUDY GROUP.....	CCI	3R10 CA12223-03S1	17,632
VELEZ-GARCIA, ENRIQUE O.....	COOPERATIVE STUDY OF CANCER.....	CCI	2R10 CA12223-04	73,930
ORGANIZATION TOTAL	13 1,709,966			
STATE TOTAL	17 2,114,582			

## OTHER COUNTRIES

### ARGENTINA

#### BUENOS AIRES

##### INSTITUTO DE INVESTIGACIONES BIOQUIMICAS 'FUNDACION CAMPOMAR'

LELOIR, LUIS F.....	BIOSYNTHESIS OF CELL-MEMBRANE SACCHARIDES.....	MBY	5R01 GM19808-03	40,000
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**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ARGENTINA—Continued</b>				
ORGANIZATION TOTAL	1		40,000	
<b>NATIONAL COUNCIL OF SCIENTIFIC AND TECHNICAL RESEARCH</b>				
DE ROBERTIS, EDUARDO D.....	ULTRASTRUCTURE AND FUNCTION IN THE NERVOUS TISSUE .....	NEUA	5R01 NS06953-09	30,000
ORGANIZATION TOTAL	1		30,000	
<b>NAVAL INSTITUTE OF SCIENTIFIC AND TECHNICAL RESEARCH</b>				
CASTRO, JOSE A.....	MECHANISM OF CARBON TETRACHLORIDE HEPATOTOXICITY .....	TOX	5R01 AM13195-06	3,100
ORGANIZATION TOTAL	1		3,100	
<b>UNIVERSITY OF BUENOS AIRES</b>				
FRYDMAN, BENJAMIN .....	BIOSYNTHETIC INTERMEDIATES OF PORPHYRINS.....	MCHB	2R01 GM11973-10	21,500
ORGANIZATION TOTAL	1		21,500	
STATE TOTAL	4		94,600	
<b>AUSTRALIA</b>				
<b>MELBOURNE</b>				
<b>UNIVERSITY OF MELBOURNE</b>				
ADAMS, JERRY M .....	ISOLATION AND SEQUENCE ANALYSIS OF IMMUNOGLOBULIN MNRA.....	BIO	5R01 CA12421-03	26,800
AUGUSTEYN, ROBERT C.....	THE MECHANISM OF SENILE CATARACT FORMATION.....	VISA	1R01 EY01525-01	21,180
MARCHALONIS, JOHN J.....	STRUCTURE AND FUNCTION OF CELL SURFACE IMMUNOGLOBULIN .....	ALY	5R01 AI10886-03	26,820
MARCHALONIS, JOHN J.....	ORIGINS OF IMMUNE RECOGNITION.....	SSS	1R01 AI12565-01	32,425
MITCHELL, GRAHAM F.....	IMMUNE RESPONSES INDUCED IN MICE BY ASCARIS SUUM.....	TMP	1R01 AI12677-01	30,015
NOSSAL, GUSTAV J.....	MECHANISMS OF LYMPHOCYTE-ANTIGEN INTERACTIONS.....	ALY	2R01 AI03958-15	54,352
WARNER, NOEL L.....	GENETICS OF MURINE PLASMACYTOMAS AND AUTOIMMUNITY.....	GEN	5R01 AM11234-08	43,603
WARNER, NOEL L.....	VIRAL AND OTHER ANTIGENS OF MURINE PLASMACYTOMAS.....	IMB	5R01 CA15600-02	33,393
WHITE, MICHAEL J.....	CYTOGENETICS: CHROMOSOME REARRANGEMENTS.....	GEN	2R01 GM07212-14	11,948
ORGANIZATION TOTAL	9		280,536	
<b>SYDNEY</b>				
<b>INSTITUTE OF DENTAL RESEARCH</b>				
KNOX, KENNETH W.....	VARIATIONS IN THE SURFACE STRUCTURES OF ORAL BACTERIA .....	DEN	1R01 DE04174-01	65,040
ORGANIZATION TOTAL	1		65,040	
<b>UNIVERSITY OF SYDNEY</b>				
FREEMAN, HANS C.....	CRYSTAL STRUCTURES OF SOME METAL-PEPTIDE COMPLEXES.....	BBCA	5R01 GM10867-14	31,100
WICKEN, ANTHONY J.....	VARIATIONS IN THE SURFACE STRUCTURES OF ORAL BACTERIA .....	DEN	1R01 DE04175-01	74,728
ORGANIZATION TOTAL	2		105,828	
STATE TOTAL	12		451,404	
<b>BELGIUM</b>				
<b>BRUSSELS</b>				
<b>CATHOLIC UNIVERSITY OF LOUVAIN</b>				
BAZIN, HERVE.....	PHYSIOLOGY OF THE RAT IGE.....	IMB	1R01 AI12840-01	30,250
ORGANIZATION TOTAL	1		30,250	
<b>EUROPEAN ORGANIZATION FOR RESEARCH ON TREATMENT OF CANCER</b>				
TAGNON, HENRI J.....	COOPERATIVE CLINICAL STUDY OF CANCER .....	CCI	5R10 CA11488-06	132,000
ORGANIZATION TOTAL	1		132,000	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>BELGIUM—Continued</b>				
<b>FREE UNIVERSITY OF BRUSSELS</b>				
CHRISTOPHE, JEAN P .....	MOLECULAR BASIS OF SECRETION IN THE EXOCRINE PANCREAS.....	GMA	1R01 AM17010-01A2	24,000
ORGANIZATION TOTAL	1 24,000			
STATE TOTAL	3 186,250			
<b>CANADA</b>				
<b>EDMONTON</b>				
<b>UNIVERSITY OF ALBERTA</b>				
BAND, PIERRE R .....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	CCI	3R10 CA13314-02S1	6,769
DIENER, ERWIN .....	ANTIGEN RECOGNITION MECHANISMS AND IMMUNE INDUCTION .....	IMB	5R01 AI11595-02	20,960
VON BORSTEL, ROBERT C .....	INDUCTION OF MUTATOR ACTIVITY BY IONIZING RADIATION.....	RAD	5R01 GM21294-02	28,200
ORGANIZATION TOTAL	3 55,929			
<b>KINGSTON</b>				
<b>QUEEN'S UNIVERSITY AT KINGSTON</b>				
WYATT, GERARD R .....	BIOCHEMISTRY OF DEVELOPMENT AND REGULATION.....	TMP	5R01 HD07951-02	30,400
ORGANIZATION TOTAL	1 30,400			
<b>MONTREAL</b>				
<b>MCGILL UNIVERSITY</b>				
LALA, PEYUSH K. ....	SPONTANEOUS FUSION BETWEEN TUMOR CELLS AND HOST CELLS.....	PTHB	1R01 CA17111-01	27,050
LEWIS, MARTIN G. ....	TUMOR-SPECIFIC ANTIGENS IN HUMAN BLADDER CANCER.....	SRC	1R26 CA17458-01	40,235
MC KENZIE, JOHN M .....	PATHOGENESIS OF HYPERTHYROIDISM.....	END	5R01 AM04121-15	38,896
SOLOMON, SAMUEL.....	FORMATION AND METABOLISM OF STEROIDS IN PREGNANCY .....	END	5R01 HD04365-14	34,839
ORGANIZATION TOTAL	4 141,020			
<b>SAINT JOHNS</b>				
<b>MEMORIAL UNIVERSITY OF NEWFOUNDLAND</b>				
PFEIFFER, CARL J. ....	EPIDEMIOLOGY OF GASTRIC CANCER IN NEWFOUNDLAND.....	EDC	5R01 CA14704-03	25,383
ORGANIZATION TOTAL	1 25,383			
<b>TORONTO</b>				
<b>HOSPITAL FOR SICK CHILDREN</b>				
BRYAN, M HEATHER.....	RESPIRATORY LOADING IN SUDDEN INFANT DEATH .....	CVB	5R01 HD07826-02	16,771
ORGANIZATION TOTAL	1 16,771			
<b>MENTAL RETARDATION CENTRE</b>				
DALTON, ARTHUR, J. ....	MEMORY IN DOWN'S SYNDROME AND ALZHEIMER'S DISEASE .....	EXP	1R01 HD08893-01	24,600
ORGANIZATION TOTAL	1 24,600			
<b>UNIVERSITY OF TORONTO</b>				
CAMERMAN, NORMAN.....	STEREOCHEMICAL BASIS OF ANTICONVULSANT DRUG ACTIVITY.....	BBCA	5R01 NS09839-05	15,150
SCHACHTER, HARRY .....	GLYCOPROTEIN-GLYCOLIPID METABOLISM IN SPERMATOGENESIS .....	PC	5R01 HD07889-02	20,491
ORGANIZATION TOTAL	2 35,641			
<b>VANCOUVER</b>				
<b>UNIVERSITY OF BRITISH COLUMBIA</b>				
DEBAS, HALE T .....	NEUROHORMONAL MECHANISMS OF GASTROINTESTINAL FUNCTION.....	GMA	1R01 AM18508-01	33,150

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>CANADA—Continued</b>				
DOLPHIN, DAVID H.....	PORPHYRIN IONS AND RADICALS IN METABOLIC PROCESSES.....	MCHB	1R01 AM17989-01	46,537
WADA, JUHN A.....	CHRONIC FOCAL EPILEPTOGENIC LESIONS AND DEEP STRUCTURES....	NEUA	2R01 NS02812-15	42,071
WADA, JUHN A.....	KINDLING PREPARATIONS AND ANTIEPILEPTIC DRUGS.....	NEUA	5R01 NS11083-03	17,326
ORGANIZATION TOTAL	4		139,084	
<b>WINNIPEG</b>				
<b>UNIVERSITY OF MANITOBA</b>				
FRIESEN, HENRY G.....	PLACENTAL AND PITUITARY PROTEIN AND POLYPEPTIDE HORMONES..	END	5R01 HD07843-02	49,039
SEHON, ALEC.....	CELL-MEDIATED IMMUNOLOGIC DESTRUCTION OF TUMOR CELLS.....	IMB	5R01 CA13192-03	50,510
ORGANIZATION TOTAL	2		99,549	
STATE TOTAL	19		568,377	
<b>CHILE</b>				
<b>SANTIAGO</b>				
<b>UNIVERSITY OF CHILE</b>				
PINTO-HAMUY, TERESA.....	COMPARATIVE STUDIES ON MAMMALIAN NERVOUS SYSTEM.....	NEUA	1R01 NS12470-01	29,500
ORGANIZATION TOTAL	1		29,500	
STATE TOTAL	1		29,500	
<b>COSTA RICA</b>				
<b>SAN JOSE</b>				
<b>UNIVERSITY OF COSTA RICA</b>				
MORERA, PEDRO.....	STUDY OF ABDOMINAL ANGIOSTRONGYLOSIS.....	TMP	5R01 AI11616-02	6,400
ORGANIZATION TOTAL	1		6,400	
STATE TOTAL	1		6,400	
<b>DENMARK</b>				
<b>AARHUS</b>				
<b>UNIVERSITY OF AARHUS</b>				
MAGNUSSON, STAFFAN M.....	BLOOD COAGULATION PRIMARY STRUCTURE OF PROTHROMBIN.....	HEM	5R01 HL16238-02	28,798
ORGANIZATION TOTAL	1		28,798	
<b>COPENHAGEN</b>				
<b>CARLSBERG LABORATORY</b>				
VON WETTSTEIN, DITER H.....	GENETIC CONTROL OF MACROMOLECULAR CELL STRUCTURES.....	GEN	1R01 GM22051-01	21,400
ORGANIZATION TOTAL	1		21,400	
<b>ROYAL DENTAL COLLEGE</b>				
BJORK, ARNE.....	FACIAL GROWTH STUDIES WITH METALLIC IMPLANTS.....	DEN	5R01 DE02858-16	16,000
ORGANIZATION TOTAL	1		16,000	
<b>UNIVERSITY OF COPENHAGEN</b>				
EBBESEN, PETER.....	CANCER OF OLD SKIN GRAFTS AGING ON YOUNG RECIPIENTS.....	PTHB	1R01 CA17039-01	20,300



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator		Project title	IRG	Grant number	Dollars
<b>DENMARK—Continued</b>					
ORGANIZATION TOTAL	1	20,300			
STATE TOTAL	4	86,498			
<b>ETHIOPIA</b>					
<b>ADDIS ABABA</b>					
<b>HAILE SELASSIE I UNIVERSITY</b>					
LEMMA, AKILU .....		STUDY OF LEISHMANIASIS IN ETHIOPIA .....	TMP	5R01 AI10943-03	29,668
ORGANIZATION TOTAL	1	29,668			
STATE TOTAL	1	29,668			
<b>FINLAND</b>					
<b>HELSINKI</b>					
<b>UNIVERSITY OF HELSINKI</b>					
VAHERI, ANTTI .....		FIBROBLAST SURFACE ANTIGEN LOSS IN TRANSFORMATION .....	ALY	1R01 CA17373-01	49,000
ORGANIZATION TOTAL	1	49,000			
<b>TURKU</b>					
<b>UNIVERSITY OF TURKU</b>					
HARTIALA, KAARLO J. ....		GASTROINTESTINAL AND PULMONARY METABOLIC FUNCTIONS .....	GMA	2R01 AM06018-13	24,030
HARTIALA, KAARLO J. ....		GASTROINTESTINAL AND PULMONARY METABOLIC FUNCTIONS .....	GMA	5R01 AM06018-14	30,160
ORGANIZATION TOTAL	2	54,190			
STATE TOTAL	3	103,190			
<b>FRANCE</b>					
<b>NANTES</b>					
<b>UNIVERSITY OF NANTES</b>					
LE DOUARIN, NICOLE M. ....		MIGRATION AND DIFFERENTIATION OF NEURAL CREST CELLS .....	CBY	1R01 DE04257-01	30,000
ORGANIZATION TOTAL	1	30,000			
<b>PARIS</b>					
<b>INTERNATIONAL SOCIETY ON THROMBOSIS AND HAEMOSTASIS</b>					
SOULIER, JEAN-PIERRE .....		FIFTH CONGRESS ON THROMBOSIS AND HEMOSTASIS .....	NSS	1R13 HL17693-01	11,500
ORGANIZATION TOTAL	1	11,500			
<b>PASTEUR INSTITUTE</b>					
COHEN, GEORGES N. ....		CELLULAR REGULATORY MECHANISMS AT THE MOLECULAR LEVEL .....	BIO	5R01 AI03998-13	23,062
JACOB, FRANCOIS .....		STUDIES OF REGULATORY MECHANISMS .....	PTMB	1R01 CA16355-01	20,000
ORGANIZATION TOTAL	2	43,062			
<b>SAINT-LOUIS HOSPITAL</b>					
BERNARD, JEAN .....		COOPERATIVE STUDY OF ACUTE LEUKEMIA .....	CCI	2R10 CA13239-03	29,366
ORGANIZATION TOTAL	1	29,366			

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>FRANCE—Continued</b>				
<b>UNIVERSITY OF PARIS VII</b>				
DAUSSET, JEAN .....	SURFACE LEUCOCYTE ANTIGENS AND SKIN GRAFTS .....	IMB	2R01 AI09293-15	22,500
ORGANIZATION TOTAL	1 22,500			
STATE TOTAL	6 136,428			
<b>ISRAEL</b>				
<b>HAIFA</b>				
<b>ISRAEL INSTITUTE OF TECHNOLOGY</b>				
GERSHON, DAVID .....	STUDY OF FAULTY PROTEIN MOLECULES IN SENESCENCE .....	BIO	5R01 HD07740-02	25,508
ORGANIZATION TOTAL	1 25,508			
<b>JERUSALEM</b>				
<b>HEBREW UNIVERSITY OF JERUSALEM</b>				
BERMAN, ELAINE R. ....	STUDIES ON THE PIGMENT EPITHELIUM OF THE RETINA .....	VISB	1R01 EY01131-01	18,200
CEDAR, HOWARD .....	TRANSCRIPTION OF CHROMATIN IN VITRO .....	GEN	5R01 GM20483-02	35,560
DIKSTEIN, SHABTAY .....	SURVIVAL OF THE CORNEAL ENDOTHELIUM .....	VISA	1R01 EY00965-01A2	24,030
FELDMAN, SHAUL .....	NEURAL-CORTICOSTEROID INTERACTION AND BRAIN FUNCTION .....	NEUA	5R01 NS11522-02	22,712
FRIEDLANDER, DOV .....	CONDITIONS OF VARIATION AND CHANGE OF FERTILITY .....	POP	3R01 HD06721-03S1	7,587
FRIEDLANDER, DOV .....	CONDITIONS OF VARIATION AND CHANGE OF FERTILITY .....	POP	5R01 HD06721-04	26,643
GATT, SHIMON .....	METABOLISM OF THE SPHINGOLIPIDS AND C24 FATTY ACIDS .....	MET	5R01 NS02967-15	53,519
SANDLER, S GERALD .....	TRANSFUSION COMPATIBILITY TESTING WITH THE HPA .....	HEM	1R01 HL18017-01	7,600
SCHRAMM, MICHAEL .....	ENZYME SECRETION AND ITS METABOLIC CONTROL .....	MBY	2R01 AM10451-10	49,800
SCIACKY, INO .....	CLINICAL EVALUATION OF AMALGAM RESTORATIONS .....	DEN	5R01 DE03884-02	20,390
WEINREB, ARYE .....	METALLIC IONS IN THE VITREOUS BODY OF THE EYE .....	VISA	5R01 EY01318-02	15,336
ORGANIZATION TOTAL	11 281,377			
<b>YOUTH ALIYAH</b>				
FEUERSTEIN, REUVEN .....	COGNITIVE FUNCTIONS OF RETARDED EARLY ADOLESCENTS .....	DBR	5R01 HD04634-05	82,591
ORGANIZATION TOTAL	1 82,591			
<b>REHOVOTH</b>				
<b>WEIZMANN INSTITUTE OF SCIENCE</b>				
ALONI, YOSEF .....	CONTROL OF GENE EXPRESSION IN TUMOR VIRUSES AND CELLS .....	GEN	5R01 CA14995-02	42,000
GIVOL, DAVID .....	STUDY OF THE VARIABLE FRAGMENT (FV) OF ANTIBODIES .....	ALY	5R01 AI11453-03	27,723
PATCHORNIK, ABRAHAM .....	NONENZYMATIC MODIFICATIONS AND CLEAVAGES OF PROTEINS .....	MCHA	2R01 AM05098-13	61,175
SELA, MICHAEL .....	STUDY OF SYNTHETIC ANTIGENS .....	ALY	5R01 AI11405-03	45,409
SILBERBERG, ALEXANDER .....	MUCUS CLEARANCE IN SECRETORY OTITIS MEDIA .....	BBCB	2R01 NS10048-04	40,660
WINOCOUR, ERNEST .....	STUDIES ON SUBSTITUTED SV40 DNA .....	VR	5R01 CA14530-03	76,064
YARON, ARIEH .....	SYNTHETIC HAPTEN-OLIGOPEPTIDES AS MODEL ANTIGENS .....	ALY	5R01 AI09684-06	15,282
ORGANIZATION TOTAL	7 308,313			
<b>TEL AVIV</b>				
<b>TEL AVIV UNIVERSITY</b>				
COHEN, ISAAC .....	CONTRACTILE SYSTEM OF HUMAN BLOOD PLATELETS .....	HEM	5R01 HL15048-03	14,850
PICK, EDGAR .....	MECHANISM AND ACTION OF MACROPHAGE (MΦ) .....	ALY	5R01 AI11194-02	11,218
ORGANIZATION TOTAL	2 26,068			
STATE TOTAL	22 723,857			

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>ITALY</b>				
<b>GENOA</b>				
<b>UNIVERSITY OF GENOA</b>				
PERNIS, BENVENUTO.....	IMMUNOGLOBULIN RECEPTORS OF LYMPHOID CELLS.....	ALY	5R01 AI10917-03	19,620
ORGANIZATION TOTAL	1 19,620			
<b>MILAN</b>				
<b>MARIO NEGRI INSTITUTE FOR PHARMACOLOGICAL RESEARCH</b>				
GARATTINI, SILVIO.....	TREATMENT OF CANCER DISSEMINATION AND METASTASIS.....	ET	2R01 CA12764-04	50,500
ORGANIZATION TOTAL	1 50,500			
<b>NATIONAL CANCER INSTITUTE</b>				
BUCALOSSI, PIETRO.....	ELEVENTH INTERNATIONAL CANCER CONGRESS-FLORENCE, 1974.....	NSS	1R13 CA13774-01	100,000
ORGANIZATION TOTAL	1 100,000			
<b>UNIVERSITY OF MILAN</b>				
ROSSI-BERNARDI, LUIGI.....	HEMOGLOBINS AND THE MECHANISM OF SICKLING.....	BBCB	5R01 HL15613-03	18,700
SCHWARTZ, PETER J.....	EXPERIMENTAL REPRODUCTION OF LONG Q-T SYNDROME AND SIDS..	CVB	1R01 HD08796-01	12,250
ORGANIZATION TOTAL	2 30,950			
<b>PISA</b>				
<b>UNIVERSITY OF PISA</b>				
POMPEIANO, OTTAVIO.....	SENSORY MECHANISMS AND MOTOR CONTROL.....	CMS	2R01 NS07685-07	15,000
ORGANIZATION TOTAL	1 15,000			
<b>ROME</b>				
<b>UNIVERSITY OF ROME</b>				
MONACO, FABRIZIO.....	CARBOHYDRATES IN THYROGLOBULIN IN THYROID TUMOR.....	END	5R01 AM16932-02	18,066
ORGANIZATION TOTAL	1 18,066			
STATE TOTAL	7 234,136			
<b>JAPAN</b>				
<b>KYOTO</b>				
<b>KYOTO PREFECTURAL UNIVERSITY OF MEDICINE</b>				
YONEZAWA, TAKESHI.....	MYELINATING PROCESS IN NERVE TISSUE CULTURE.....	PTHA	5R01 NS03173-14	15,400
YONEZAWA, TAKESHI.....	MYELINATING PROCESS IN NERVE TISSUE CULTURE.....	PTHA	5R01 NS03173-15	15,400
ORGANIZATION TOTAL	2 30,800			
<b>OSAKA</b>				
<b>KIKRII UNIVERSITY</b>				
OKAMOTO, KOZO.....	PATHOGENESIS AND PREVENTION OF HYPERTENSION SEQUELAE.....	CVB	1R01 HL17754-01	40,200
ORGANIZATION TOTAL	1 40,200			
<b>TOKYO</b>				
<b>KEIO UNIVERSITY</b>				
TOMITA, TSUNEO.....	ELECTRIC SIGN OF SINGLE PHOTORECEPTORS.....	VISB	5R01 EY00017-09	10,510
ORGANIZATION TOTAL	1 10,510			



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>JAPAN—Continued</b>				
<b>NATIONAL CANCER CENTER</b>				
OKADA, HIDECHIKA.....	NONIMMUNOLOGIC COMPLEMENT ACTIVATION BY TUMOR CELL.....	IMB	1R01 CA17360-01	1,000
ORGANIZATION TOTAL	1 1,000			
STATE TOTAL	5 82,510			
<b>MALAYSIA</b>				
<b>KUALA LUMPUR</b>				
<b>UNIVERSITY OF MALAYA</b>				
LEE, DAVID W.....	ANALYSIS OF LECTINS IN TROPICAL RAINFOREST PLANTS.....	HEM	5R01 GM21165-02	1,444
ORGANIZATION TOTAL	1 1,444			
STATE TOTAL	1 1,444			
<b>MEXICO</b>				
<b>MEXICO</b>				
<b>NATIONAL INSTITUTE OF NUTRITION</b>				
CHAVEZ, ADOLFO.....	NUTRITION AND DEVELOPMENT IN RURAL AREAS.....	SSS	5R22 HD03942-08	21,906
ORGANIZATION TOTAL	1 21,906			
<b>NATIONAL POLYTECHNIC INSTITUTE</b>				
RUDOMIN, PEDRO N.....	DISCHARGE PATTERNS OF MOTONEURONS.....	NEUB	5R01 NS09196-05	23,520
ORGANIZATION TOTAL	1 23,520			
STATE TOTAL	2 45,426			
<b>NEW ZEALAND</b>				
<b>DUNEDIN</b>				
<b>UNIVERSITY OF OTAGO</b>				
SIMPSON, FREDERIC O.....	STUDY OF GENETIC HYPERTENSION IN RATS.....	CVA	2R01 HL10942-07	15,055
ORGANIZATION TOTAL	1 15,055			
<b>PALMERSTON NORTH</b>				
<b>MASSEY UNIVERSITY</b>				
JOLLY, ROBERT D.....	MANNOSIDOSIS—A MODEL FOR LYSOSOMAL STORAGE DISEASES.....	MET	5R01 NS11238-02	18,100
ORGANIZATION TOTAL	1 18,100			
STATE TOTAL	2 33,155			
<b>NORWAY</b>				
<b>BERGEN</b>				
<b>UNIVERSITY OF BERGEN</b>				
SELVIG, KUNT A.....	ROLE OF DENTAL PLAQUE IN PERIODONTAL PATHOLOGY.....	DEN	5R01 DE03821-02	25,985

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>NORWAY—Continued</b>				
ORGANIZATION TOTAL	1			25,985
STATE TOTAL	1			25,985
<b>PORTUGAL</b>				
<b>LISBON</b>				
<b>INSTITUTE OF SCIENTIFIC RESEARCH</b>				
SAUNDERS, RICHARD L.....	X-RAY MICROSCOPY OF CEREBROVASCULAR PATHOLOGY.....	RAD	1R01 NS12110-01	12,736
ORGANIZATION TOTAL	1			12,736
<b>UNIVERSITY OF LISBON</b>				
DA SILVA HORTA, JORGE.....	STUDY OF THOROTRAST PATIENTS.....	RRT	5R01 CA14955-03	44,700
ORGANIZATION TOTAL	1			44,700
STATE TOTAL	2			57,436
<b>SPAIN</b>				
<b>MADRID</b>				
<b>AUTONOMOUS UNIVERSITY OF MADRID</b>				
GOSALVEZ, MARIO.....	BIOLOGICAL AND BIOCHEMICAL ANALYSIS OF ROTENONE TUMOR.....	TOX	1R01 CA16776-01	22,000
ORGANIZATION TOTAL	1			22,000
STATE TOTAL	1			22,000
<b>SWEDEN</b>				
<b>GOTHENBURG</b>				
<b>GOTHENBURG UNIVERSITY</b>				
ABRAHAMSSON, SIXTEN.....	MOLECULAR ARRANGEMENT IN COMPLEX LIPIDS.....	BBCB	2R01 GM11653-15	49,834
LINDHE, JAN T.....	STUDY OF EXPERIMENTAL PERIODONTITIS.....	DEN	5R01 DE03803-02	36,700
ORGANIZATION TOTAL	2			86,534
<b>LUND</b>				
<b>UNIVERSITY OF LUND</b>				
FALCK, BENGT O.....	NEW METHODS FOR THE STUDY OF AMINE TRANSMITTERS.....	NEUB	5R01 NS06701-09	20,984
SIESJO, BO K.....	PATHOPHYSIOLOGY OF HYPOXIC BRAIN DAMAGE.....	NEUB	2R01 NS07838-07	35,000
SIJOGREN, HANS O.....	IMMUNITY TO BOWEL NEOPLASMS IN RATS AND MAN.....	SRC	2R26 CA14924-03	73,030
ORGANIZATION TOTAL	3			129,014
<b>STOCKHOLM</b>				
<b>CAROLINE INSTITUTE</b>				
BLOMBACK, E G.....	STRUCTURE: FIBRINOGEN, FIBRIN FORMATION, THROMBIC ENZYME....	HEM	5R01 HL07379-10	46,858
KLEIN, GEORGE.....	MALIGNANT BEHAVIOR AND CELLULAR ANTIGEN EXPRESSION.....	GEN	5R01 CA14054-03	70,000
ORGANIZATION TOTAL	2			116,858
<b>ROYAL INSTITUTE OF TECHNOLOGY</b>				
LINDBLOM, BJORN E.....	ACOUSTIC SPECIFICATION OF SPEECH.....	CMS	5R01 NS04003-12	28,310

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>SWEDEN—Continued</b>				
ORGANIZATION TOTAL	1			28,310
<b>UPPSALA</b>				
<b>UNIVERSITY OF UPPSALA</b>				
BARANY, ERNST H .....	COMPARATIVE STUDIES OF GLAUCOMA .....	VISA	5R01 EY00231-11	45,265
BILL, ANDERS A .....	STUDIES ON THE NUTRITION OF THE EYE .....	VISA	5R01 EY00475-09	30,000
HAZELBAUER, GERALD L .....	THE MECHANISM OF CHEMORECEPTION IN ESCHERICHIA COLI .....	MBC	1R01 AI12858-01	13,140
ORGANIZATION TOTAL	3			88,405
STATE TOTAL	11			449,121
<b>SWITZERLAND</b>				
<b>BERN</b>				
<b>UNIVERSITY OF BERN</b>				
FLEISCH, HERBERT A .....	ACTIVATION AND INHIBITION IN CALCIFICATION .....	GMB	5R01 AM07266-12	36,127
ORGANIZATION TOTAL	1			36,127
<b>GENEVA</b>				
<b>INTERNATIONAL UNION AGAINST CANCER</b>				
DELAFTRESNAYE, JOHN F .....	STUDY OF CANCER .....	NSS	5R01 CA05096-14	35,000
ORGANIZATION TOTAL	1			35,000
<b>ZURICH</b>				
<b>EUROPEAN ASSOCIATION FOR MAXILLO-FACIAL SURGERY</b>				
OBWEGESER, HUGO L .....	2ND CONGRESS-EUROPEAN ASSOC FOR MAXILLO-FACIAL SURGERY ...	NSS	1R13 DE04076-01	8,000
ORGANIZATION TOTAL	1			8,000
STATE TOTAL	3			79,127
<b>THAILAND</b>				
<b>BANGKOK</b>				
<b>MAHIDOL UNIVERSITY</b>				
BHAMARAPRAVATI, MATTH .....	PATHOGENESIS OF DENGUE SHOCK SYNDROME .....	VR	1R22 AI12358-01	15,000
LAMB, ADRIAN J .....	METABOLISM AND FUNCTION OF CAROTENOIDS AND VITAMIN A .....	NTN	5R01 AM11367-08	29,000
VALYASEVI, AREE .....	STUDIES OF BLADDER STONE DISEASE IN THAILAND .....	SSS	3R22 AM13066-06S1	33,000
WASI, PRAWASE .....	THALASSEMIAS, HEMOGLOBINOPATHIES, AND RELATED PROBLEMS .....	HEM	5R01 AM09805-09	13,200
ORGANIZATION TOTAL	4			90,200
STATE TOTAL	4			90,200
<b>UNITED KINGDOM</b>				
<b>LONDON</b>				
<b>COLLEGE OF GENERAL PRACTITIONERS</b>				
MALINS, J M .....	10 YEAR FOLLOW-UP OF GLYCOSURIA IN GENERAL PRACTICE .....	EDC	5R01 AM14431-08	391
ORGANIZATION TOTAL	1			391



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1975—Continued**

Principal investigator	Project title	IRG	Grant number	Dollars
<b>UNITED KINGDOM—Continued</b>				
<b>UNIVERSITY OF LONDON</b>				
ALEXANDER, PETER.....	EFFECT OF TUMOR GROWTH ON THE IMMUNE RESPONSE.....	NSS	5R01 CA15000-02	22,130
LANDAUR, WALTER.....	MOLECULAR SHAPE AND TERATOGENIC SPECIFICITY.....	HED	5R01 HD08203-02	4,821
MILLS, NORMAN J.....	GROWTH AND DEVELOPMENT OF MELANESIAN CHILDREN.....	EDC	3R01 HD06343-03S1	1,269
PAULING, PETER J.....	THE CONFORMATIONS OF CHOLINERGIC MOLECULES.....	BBCA	1R01 NS12021-01	26,592
WALL, PATRICK D.....	SENSORY AND MOTOR ASPECTS OF RESPIRATION.....	NEUB	2R01 NS07710-07	26,875
ORGANIZATION TOTAL	5	81,687		
<b>MANCHESTER</b>				
<b>VICTORIA UNIVERSITY OF MANCHESTER</b>				
STEWART, JAMES K.....	EPIDEMIOLOGICAL STUDY OF CHILDREN'S TUMORS.....	EDC	5R01 CA14992-02	12,375
TAYLOR, GEOFFREY.....	TUMOR-SPECIFIC IMMUNITY IN BLADDER CANCER.....	SRC	5R26 CA15553-02	27,615
ORGANIZATION TOTAL	2	39,990		
<b>OXFORD</b>				
<b>UNIVERSITY OF OXFORD</b>				
KREBS, HANS A.....	REGULATION OF METABOLIC PROCESSES.....	MET	5R01 AM11748-08	22,000
VAN HEYNINGEN, RUTH E.....	CATARACT IN RATS DUE TO DIETARY DEFICIT OF TRYPTOPHAN.....	VISA	1R01 EY01548-01	21,399
ORGANIZATION TOTAL	2	43,399		
STATE TOTAL	10	165,467		
<b>URUGUAY</b>				
<b>MONTEVIDEO</b>				
<b>BIOLOGICAL SCIENCES RESEARCH INSTITUTE</b>				
DRETS, MAXIMO E.....	QUANTITATIVE BAND MAPPING OF HUMAN CHROMOSOMES.....	GEN	1R01 GM22037-01	14,900
TRUJILLO-CENOZ, OMAR.....	ONTOGENESIS OF VISUAL SYNAPTIC NEUROPILES.....	VISB	5R01 NS08669-06	3,572
ORGANIZATION TOTAL	2	18,472		
STATE TOTAL	2	18,472		
<b>YUGOSLAVIA</b>				
<b>BELGRADE</b>				
<b>UNIVERSITY OF BELGRADE</b>				
LUKATELA, GEORGUE L.....	CROSS-LANGUAGE STUDIES OF PROCESSES BASIC TO READING.....	DBR	1R01 HD08495-01	47,510
ORGANIZATION TOTAL	1	47,510		
STATE TOTAL	1	47,510		

**Table 3.—NIH Research Career Awards, by Area,  
Organization, and Awardee, Fiscal Year 1975**

Awardee	Project title	IRG	Grant number
<b>ALABAMA</b>			
<b>BIRMINGHAM</b>			
<b>UNIVERSITY OF ALABAMA IN BIRMINGHAM      ZIP CODE 35294</b>			
ANDREOLI, THOMAS E .....	TRANSPORT PROCESSES IN LIPID MEMBRANES AND RENAL TUBULES.....	GMK	5K04 GM18161-08
BRIGGS, DICK D, JR .....	PULMONARY ACADEMIC AWARD .....	SRC	3K07 HL70060-03S2
BRIGGS, DICK D, JR .....	PULMONARY ACADEMIC AWARD .....	SRC	5K07 HL70060-04
CHEUNG, HERBERT C .....	MUSCLE CONTRACTION AND MACROMOLECULAR CONFORMATION.....	GMK	5K04 GM42596-05
LAMON, EDDIE W .....	VIRAL TUMOR IMMUNOLOGY .....	IMB	1K04 CA00059-01
LAWTON, ALEXANDER R, III .....	DIFFERENTIATION OF B-LYMPHOCYTES.....	IMB	5K04 AI70780-02
LEBOWITZ, JACOB .....	CIRCULAR DNA - IMPLICATIONS FOR CANCER & DRUG RESISTANCE .....	BBCA	7K04 CA00141-03
OYSTER, CLYDE W .....	NEURAL INTERACTIONS IN THE RETINA AND VISUAL PATHWAYS.....	VISB	1K04 EY00033-01
PRETLOW, THOMAS G .....	RELATIONSHIPS BETWEEN CANCER, STROMAL, AND NORMAL CELLS .....	PHRB	5K04 CA70584-03
SCHNEYER, LEON H .....	SALIVARY GLAND ELECTROLYTES.....	DTL	5K06 DE03341-12
<b>MOBILE</b>			
<b>UNIVERSITY OF SOUTH ALABAMA      ZIP CODE 36688</b>			
BASS, JOHN B, JR .....	PULMONARY ACADEMIC AWARD .....	SRC	1K07 HL00125-01
<b>UNIVERSITY</b>			
<b>UNIVERSITY OF ALABAMA      ZIP CODE 35486</b>			
HAYES, A WALLACE .....	ENVIRONMENTAL AND MOLECULAR EFFECTS OF RUBRATOXIN.....	TOX	5K04 ES34113-02
<b>ARIZONA</b>			
<b>TUCSON</b>			
<b>UNIVERSITY OF ARIZONA      ZIP CODE 85721</b>			
CUSANOVICH, MICHAEL A .....	BIOLOGICAL ELECTRON TRANSPORT/VISUAL PROCESS.....	BIO	1K04 EY00013-01
KATZ, MURRAY A .....	EFFECT OF EXTRACELLULAR FLUID VOLUME ON HEMODYNAMICS .....	AMK	5K04 AM38865-05
MENDELSON, NEIL H .....	GENETIC REGULATION OF THE BACILLUS SUBTILIS CELL CYCLE .....	MBC	5K04 GM70555-03
RUSSELL, DIANE H .....	POLYAMINES IN GROWTH -- NORMAL AND NEOPLASTIC .....	PTHB	1K04 CA00072-01
WITTE, MARLYS H .....	LYMPH FORMATION AND ABSORPTION IN EDEMA.....	CVA	5K04 HL19605-04
<b>ARKANSAS</b>			
<b>LITTLE ROCK</b>			
<b>UNIVERSITY OF ARKANSAS MEDICAL CENTER      ZIP CODE 72201</b>			
BURNS, E ROBERT .....	CHRONOBIOLOGICAL STUDY OF CELL GROWTH .....	PTHB	5K04 CA70594-02

NOTE 1.—For information as to how this table was prepared, see Technical Note, p. ix.

NOTE 2.—Grants are listed according to the State or country and city of the component part of the organization professionally responsible for the work (see Technical Note, p. ix). If an organization appears in more than one geographic location a clarifying comment, appropriate annotations have been made in the Appendix.

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>CALIFORNIA</b>			
<b>DAVIS</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT DAVIS      ZIP CODE 95616			
CROSS, CARROLL E.....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM.....	PUL	5K07 HL70820-02
TROY, FREDERIC A.....	MEMBRANE-BOUND ENZYME INTERACTIONS AND GROWTH CONTROL.....	SSS	1K04 CA00095-01
<b>IRVINE</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT IRVINE      ZIP CODE 92664			
GRANGER, GALE A.....	SECRETION OF CELL TOXIN BY ACTIVATED LYMPHOCYTES.....	IMB	5K04 GM25607-05
HATFIELD, G WESLEY.....	ENZYME MATURATION AND GENE EXPRESSION.....	BIO	5K04 GM70530-03
LYNCH, GARY S.....	AXONAL GROWTH AND BRAIN PLASTICITY.....	NEUA	1K04 NS00043-01
SUTHERLAND, BETSY M.....	PHOTOREACTIVATING ENZYMES.....	RAD	1K04 CA00009-01
<b>LA JOLLA</b>			
SALK INSTITUTE FOR BIOLOGICAL STUDIES      ZIP CODE 92037			
HEINEMANN, STEPHEN F.....	INTERACTION OF CLONED LINES OF NERVE AND MUSCLE.....	MBY	5K04 NS70139-04
KIDOKORO, YOSHIKI.....	MUSCLE DIFFERENTIATION AND SYNAPSE FORMATION IN VITRO.....	PHY	1K04 NS00102-01
SCRIPPS CLINIC AND RESEARCH FOUNDATION      ZIP CODE 92037			
BOKISCH, VIKTOR A.....	STRUCTURE AND BIOLOGIC FUNCTION OF ANAPHYLATOXIN.....	ALY	5K04 AI70263-04
GOLDSTEIN, DAVID A.....	THE MECHANISM OF POLYOMA DNA REPLICATION.....	VR	5K04 CA32425-03
HOCH, SALLIE O.....	MOLECULAR INTERACTIONS IN DIFFERENTIATION.....	PC	1K04 CA00004-01
KOLB, WILLIAM P.....	CANCER CELL DESTRUCTION BY LYMPHOTOXIN OR COMPLEMENT.....	ALY	5K04 CA70841-02
MORGAN, WILLIAM T.....	MECHANISMS OF SERUM PROTEIN FUNCTIONS.....	GMA	1K04 AM00110-01
MORRISON, DAVID C.....	BIOCHEMICAL PARAMETERS OF LPS-MEDIATED DIC AND SHOCK.....	BM	1K04 AI00081-01
TAVASSOLI, MEHDI.....	STRUCTURAL BASIS OF HEMOPOIESIS.....	HEM	5K04 AM70551-02
VOLD, BARBARA S.....	ROLE OF tRNA IN CELLULAR REGULATORY MECHANISMS.....	GMK	5K04 GM23736-05
WEIGLE, WILLIAM O.....	ANTIBODY PRODUCTION AND IMMUNOLOGICAL TOLERANCE.....	NCR	5K06 GM06936-14
WHITELEY, JOHN M.....	THE BIOCHEMISTRY OF PTERIDINE AND FOLATE COENZYMES.....	PC	1K04 CA00106-01
ZIMMERMAN, THEODORE S.....	INTERACTION OF COAGULATION AND COMPLEMENT SYSTEMS.....	HEM	5K04 HL70242-04
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO      ZIP CODE 92037			
BRODY, STUART.....	DEVELOPMENTAL GENETICS OF NEUROSPORA.....	MBC	5K04 GM70761-02
COVELL, JAMES W.....	THE MECHANICS OF CONTRACTION IN THE INTACT HEART.....	HTA	5K04 HL21132-05
DILLEY, RALPH B.....	SURGICAL SIGNIFICANCE OF THE COLLATERAL CIRCULATION.....	HTA	5K04 HL39402-05
FOSTER, MARGARET C.....	BIOPHYSICAL STUDIES OF VISUAL RECEPTORS.....	VSN	1K07 EY00027-01
FREER, STEPHAN T.....	STRUCTURE AND FUNCTION OF BIOLOGICAL MACROMOLECULES.....	BBCB	5K04 GM70140-04
GILL, GORDON N.....	REGULATORY MECHANISMS OF ACTH AND CYCLIC AMP ACTION.....	END	5K04 AM70215-04
HEMMINGSSEN, EDVARD A.....	STUDIES ON GAS BUBBLE FORMATION IN VITRO AND IN VIVO.....	CVB	5K04 HL50263-04
KAGNOFF, MARTIN F.....	INDUCTION OF INTESTINAL ANTIGEN-SENSITIVE CELLS.....	IMB	1K04 AM00021-01
MENDELSON, JOHN.....	CONTROL OF IMMUNE AND MALIGNANT LYMPHOCYTE GROWTH.....	PTHB	5K04 CA70891-02
MILLER, ARNOLD L.....	I-CELL DISEASE AND MENTAL RETARDATION.....	NEUB	1K04 NS00050-01
NESBITT, MURIEL N.....	CELLULAR MAPPING OF BEHAVIOR TRAITS IN MICE.....	GEN	1K04 GM00138-01
OKAMURA, MELVIN Y.....	ELECTRON TRANSPORT IN BACTERIAL MEMBRANES.....	BBCB	1K04 GM00106-01
PINON, RAMON, JR.....	GENETIC RECOMBINATION IN YEAST.....	MBC	5K04 GM37772-05
ROBB, JAMES A.....	MOLECULAR MECHANISMS IN VIRAL (SV40) CARCINOGENESIS.....	VR	5K04 CA70567-03
ROSENFELD, MICHAEL G.....	MECHANISM OF HORMONAL AND CAMP REGULATORY ACTION.....	END	1K04 AM00078-01
SAIER, MILTON H, JR.....	REGULATION OF MEMBRANE FUNCTION IN C-6 RAT GLIOMA CELLS.....	MBY	1K04 CA00138-01
SILVERSTON, ALLEN I.....	NEURAL GEOMETRY AND INTEGRATION IN GANGLIA.....	NEUB	5K04 NS70490-03
TAYLOR, SUSAN S.....	STRUCTURE AND AMINO ACID SEQUENCE OF PROTEIN KINASE.....	BIO	5K04 GM70244-04
VALENTINE, RAYMOND C.....	TRANSDUCTIONAL ANALYSIS—NITROGENASE GENES OF KLEBSIELLA.....	GEN	5K04 AI16595-04
WAGNER, PETER D.....	VENTILATION AND BLOOD FLOW IN CARDIOPULMONARY DISEASE.....	AFY	1K04 HL00111-01



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>CALIFORNIA—Continued</b>			
<b>LOMA LINDA</b>			
<b>LOMA LINDA UNIVERSITY</b>	<b>ZIP CODE 92354</b>		
HODGKIN, JOHN E.....	PULMONARY ACADEMIC AWARD.....	SRC	3K07 HL70350-03S1
HODGKIN, JOHN E.....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM.....	PUL	5K07 HL70350-04
QUILLIGAN, JAMES J., JR.....	VIRUSES, VACCINATION AND ANTIVIRAL IMMUNITY.....	NCR	5K06 AI20517-13
<b>LOS ANGELES</b>			
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE UNIVERSITY, LOS ANGELES</b>	<b>ZIP CODE 90032</b>		
BROWN, COSTELLO L.....	NEGATIVE IONIZATION OF BIOORGANIC MOLECULES.....	MCHB	1K04 GM00131-01
ONAK, THOMAS P.....	BIOLOGICALLY ACTIVE DERIVATIVES OF BORON COMPOUNDS.....	MCHB	5K04 CA28028-03
<b>CHILDREN'S HOSPITAL OF LOS ANGELES</b>	<b>ZIP CODE 90054</b>		
BENEDICT, WILLIAM F.....	CYTOGENETICS OF HUMAN CANCER AND CHEMICAL TRANSFORMATION.....	ET	5K04 CA70996-02
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES</b>	<b>ZIP CODE 90024</b>		
BARNARD, R JAMES.....	EFFECT OF ACUTE AND CHRONIC EXERCISE ON THE HEART.....	AFY	1K04 HL00052-01
BRADY, ALLAN J.....	EXCITATION CONTRACTION COUPLING IN HEART MUSCLE.....	HTA	5K03 HL04362-10
BRINKMAN, CHARLES R., III.....	MECHANISM & CLINICAL APPLICATION OF FETAL HEART CONTROL.....	CVB	5K04 HL70237-04
CLARK, WILLIAM R.....	MECHANISMS OF GENERATION OF CYTOTOXIC EFFECTOR T CELLS.....	IMB	1K04 AI00009-01
EISENBERG, DAVID S.....	STRUCTURE AND ACTION OF MULTISUBUNIT ENZYMES.....	BBCB	5K04 GM70505-04
FOX, CHARLES F.....	MEMBRANE ASSEMBLY AND CELLULAR GROWTH.....	GMK	5K04 GM42359-07
GOLUB, SIDNEY H.....	IN VITRO LYMPHOCYTE SENSITIZATION TO TUMOR ANTIGENS.....	ET	5K04 CA70970-02
HEIDNER, ELIZABETH G.....	X-RAY & EM STUDIES: RNA-POLYMERASE & GLYCOGEN SYNTHESIS.....	BBCA	1K04 GM00085-01
HOMSHER, EARL.....	ENERGY LIBERATION AND TRANSDUCTION IN CONTRACTING MUSCLE.....	PHY	5K04 AM70792-02
MEAD, JAMES F.....	METABOLISM OF BRAIN FATTY ACIDS.....	NCR	5K06 GM19177-13
MEYERS, ROBERTA L.....	IMMUNOLOGY AND IMMUNOPATHOLOGY OF CORNEAL DISEASE.....	IMB	1K04 EY00014-01
SALSER, WINSTON A.....	NEW TECHNIQUES FOR RNA AND DNA SEQUENCING.....	GMK	5K04 GM70045-05
SEEGER, ROBERT C.....	IMMUNE RESPONSE OF CHILDREN TO NEUROBLASTOMA.....	IMB	1K04 CA00069-01
SHOME, BASUDEB.....	STRUCTURE OF HUMAN PITUITARY FSH AND LH.....	REB	5K04 HD70636-02
SIMMONS, NORMAN S.....	ORAL MEDICINE AND BIOPHYSICS.....	DTL	5K06 DE01094-12
<b>UNIVERSITY OF SOUTHERN CALIFORNIA</b>	<b>ZIP CODE 90007</b>		
APPLEMAN, M MICHAEL.....	CYCIC NUCLEOTIDES AS MEDIATORS OF PHYSIOLOGICAL CONTROL.....	PC	5K04 AM70518-02
BAU, ROBERT.....	THE MOLECULAR BASIS OF ANTITUMOR PLATINUM DRUG ACTIVITY.....	BBCA	1K04 CA00015-01
BEIERLE, JOHN W.....	EFFECT OF CELL EXUDATES ON ORAL AND OTHER TUMORS.....	PTHB	5K04 CA70675-02
BEKHOR, ISAAC.....	STUDIES OF CELL DIFFERENTIATION IN SALIVARY GLANDS.....	DTL	5K04 DE47354-05
MEISELMAN, HERBERT J.....	MICROCIRCULATORY & PATHOLOGIC STUDY OF HEMORHEOLOGY.....	CVB	5K04 HL70569-03
MOOSER, GREGORY.....	INTERACTIONS OF TASTE RECEPTORS.....	CMS	5K04 DE70488-04
SOBIN, SIDNEY S.....	STUDIES OF THE MICROCIRCULATION.....	HTA	5K06 HL07064-15
<b>PALO ALTO</b>			
<b>PALO ALTO MEDICAL RESEARCH FOUNDATION</b>	<b>ZIP CODE 94301</b>		
KRAHENBUHL, JAMES L.....	CELLULAR IMMUNITY TO OPPORTUNISTIC PATHOGENS AND TUMORS.....	AIRC	5K04 AI70931-02
<b>PASADENA</b>			
<b>CALIFORNIA INSTITUTE OF TECHNOLOGY</b>	<b>ZIP CODE 91109</b>		
HOOD, LEROY E.....	GENETIC BASIS OF ANTIBODY DIVERSITY AND EVOLUTION.....	GEN	5K04 AI20388-04
STROUD, ROBERT M.....	STRUCTURE AND FUNCTION OF PROTEINS AT MOLECULAR LEVEL.....	BBCB	5K04 GM70469-04
<b>RIVERSIDE</b>			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT RIVERSIDE</b>	<b>ZIP CODE 92502</b>		
FURLONG, CLEMENT E.....	BACTERIAL AND HUMAN MEMBRANE TRANSPORT SYSTEMS.....	MBC	1K04 GM00001-01
NORMAN, ANTHONY W.....	STUDIES ON CALCIUM AND VITAMIN D METABOLISM.....	AMK	5K04 AM13654-05

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>CALIFORNIA—Continued</b>			
<b>SAN FRANCISCO</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO		ZIP CODE 94143	
ADLER, RONALD D	BILIARY LIPID SECRETION AND LIPOPROTEIN METABOLISM	GMA	1K08 AM00132-01
BAINTON, DOROTHY F	EXPERIMENTAL AND CLINICAL STUDIES ON PMN LEUKOCYTES	AMK	5K04 AM11902-05
BAXTER, JOHN D	REGULATION OF GENE EXPRESSION BY STEROID HORMONES	MBY	5K04 AM70528-03
BISSELL, DWIGHT M, JR	REGULATION OF HEPATIC HEMOPROTEIN METABOLISM	PHRA	1K04 GM00149-01
BOUSHEY, HOMER A, JR	PULMONARY ACADEMIC AWARD	SRC	1K07 HL00130-01
DALLMAN, MARY F	BRAIN-PITUITARY-ADRENAL INTERRELATIONSHIPS	END	1K04 AM00072-01
DIAMOND, IVAN F	CHOLINE TRANSPORT INTO SYNAPTOSOMES & SYNAPTIC VESICLES	NSRA	5K04 NS23131-05
ERICKSON, ROBERT P	MOUSE SPERM ANTIGENS AND THE TALLELE PRODUCT	HDPR	5K04 HD43252-05
FIELDS, HOWARD L	NEUROPHYSIOLOGY OF PAIN	NEUB	5K04 NS70777-02
GOLDBERG, HENRY I	RADIOGRAPHIC EVALUATION OF MALDIGESTION	RAD	5K04 GM70582-03
GOLDBERG, MELVIN L	IN VITRO STUDY OF MAMMALIAN GENES	GMK	5K04 GM07225-05
HAMILTON, ROBERT L	SUBCELLULAR MECHANISMS OF PLASMA LIPOPROTEIN METABOLISM	PTHA	3K04 HL24187-04S1
HAMILTON, ROBERT L	SUBCELLULAR MECHANISMS OF PLASMA LIPOPROTEIN METABOLISM	PTHA	5K04 HL24187-05
HOFF, JULIAN T	NEUROSURGERY	NSRB	5K07 NS11051-04
KANE, YUET W	STUDIES ON SICKLE CELL ANEMIA AND THALASSEMIA	HEM	5K04 AM70779-02
KAUFMAN, LEON	SOLID STATE DEVICES, POSITION SENSITIVE CHAMBERS	RAD	5K04 GM70598-03
KENYON, GEORGE I	PROBING THE ACTIVE SITE OF CREATINE KINASE	MCHA	1K04 AM00014-01
KOLLMAN, PETER A	INTERMOLECULAR INTERACTIONS IN CHEMISTRY AND BIOLOGY	BBCA	3K04 GM70718-01S1
KOLLMAN, PETER A	INTERMOLECULAR INTERACTIONS IN CHEMISTRY AND BIOLOGY	BBCA	5K04 GM70718-02
KOROBKIN, MELVYN T	UROGRAPHIC AND HEMODYNAMIC CHANGES IN RENAL ISCHEMIA	RAD	1K04 GM00055-01
KUN, ERNEST	BIOCHEMICAL REGULATORY MECHANISMS	NCR	5K06 GM04615-12
KUNTZ, IRWIN D, JR	MACROMOLECULAR STRUCTURE AND HYDRATION	BBCB	1K04 GM00042-01
LEVY, JAY A	ROLE OF C-TYPE VIRUS IN AUTOIMMUNE DISEASE AND CANCER	VR	5K04 CA70990-02
MARTON, LAURENCE J	DIAGNOSIS AND EVALUATION OF BRAIN TUMOR CHEMOTHERAPY	ET	1K04 CA00112-01
MENTZER, WILLIAM C, JR	RBC METABOLISM IN SICKLELMIA AND OTHER CHILDHOOD ANEMIAS	HEM	1K04 HL00086-01
MICHAELI, DOV	IMMUNOLOGICAL STUDIES ON COLLAGEN	AMK	5K04 AM50205-05
PICTET, RAYMOND L	MECHANISM OF REGULATION OF GROWTH & CYTODIFFERENTIATION	MBY	5K04 HD70682-03
PRUSINER, STANLEY B	REGULATION/FUNCTION OF BRAIN ALPHA-GLUTAMYL TRANSEPTIDA	NEUB	1K04 NS00060-01
REID, IAN A	SYMPATHETIC REGULATION OF RENIN SECRETION	CVB	1K04 HL00104-01
SANTI, DANIEL V	STUDIES OF TMP SYNTHETASE & THE GLUCOCORTICOID RECEPTOR	ET	1K04 CA00123-01
SEVERINGHAUS, JOHN W	RESPIRATORY CHEMORECEPTOR SENSITIVITY CONTROL MECHANISMS	NCR	5K06 HL19412-13
SHAMES, DAVID M	KINETIC ANALYSIS OF CLINICAL NUC. MED. TRACER DATA	RAD	5K04 GM70304-04
SHOHET, STEPHEN B	MEMBRANE LIPID METABOLISM	HEM	5K04 AM37237-04
SIEGEL, ROBERT C	PATHOGENESIS OF CONNECTIVE TISSUE DISEASE	GMA	1K04 AM00114-01
SMITH, ALLAN L	STUDY OF CIRCULATORY RESPONSE TO ANESTHETICS	SGYB	5K04 GM70770-02
SPLITER, LYNN E	INVESTIGATION OF CELLULAR IMMUNITY IN HUMAN DISEASE	IMB	5K04 AI43012-05
STEINBERG, ROY H	ELECTRICAL ACTIVITY OF SINGLE CELLS IN THE RETINA	VSN	5K04 EY18083-05
TYBERG, JOHN V	AN ANALYSIS OF ISCHEMIC DYSFUNCTION	CVB	1K04 HL00016-01
VARMUS, HAROLD E	BIOCHEMISTRY OF TRANSFORMATION BY ROUS SARCOMA VIRUS	VR	5K04 CA70193-04
WEINKAM, ROBERT J	CHEMICAL IONIZATION MASS SPECTROMETRY-BIOMEDICAL	MCHB	1K04 GM00007-01
WHEELER, KENNETH T, JR	EFFECT OF RADIATION AND DRUGS ON DNA OF NORMAL BRAIN	RAD	5K04 NS70739-02
UNIVERSITY OF THE PACIFIC		ZIP CODE 94115	
MURPHY, ALEXANDER J	THE ACTIVE SITE STRUCTURES OF CONTRACTILE PROTEINS	BBCB	5K04 AM28709-04
<b>SANTA BARBARA</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA BARBARA		ZIP CODE 93106	
GERIG, JOHN T	STRUCTURAL STUDIES OF PROTEINS IN VARIOUS PHASES	BBCB	5K04 GM70733-03
<b>STANFORD</b>			
STANFORD UNIVERSITY		ZIP CODE 94305	
ALLANSMITH, MATHEA R	STUDIES IN OCULAR IMMUNOLOGY	VSN	5K04 EY11682-05
BUCHANAN, BRUCE G	THEORY FORMATION BY COMPUTER	GMK	5K04 GM29662-04
CHOW, KAO L	NEUROBIOLOGY OF LEARNING AND VISION	NCR	5K06 NS18512-13

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>CALIFORNIA—Continued</b>			
COOPER, ALLEN D.....	REGULATION OF HEPATIC CHOLESTEROL SYNTHESIS.....	MET	1K08 AM00137-01
FAIR, WILLIAM R.....	BIOCHEMISTRY OF THE PROSTATE AND ITS SECRETIONS.....	BM	5K04 AI70107-03
FRIEDBERG, ERROL C.....	DNA REPAIR MECHANISMS AND DNA-PROTEIN INTERACTION.....	MBC	5K04 CA71005-02
GANESAN, ADAYAPALAM T.....	CHROMOSOME REPLICATION, RECOMBINATION, AND CELL DIVISION.....	GMK	5K04 GM50199-05
GRAY, GARY M.....	SYNTHESIS AND DEGRADATION OF DIGESTIVE ENZYMES.....	AMK	5K04 AM47443-05
GREGORY, PETER B.....	SUPPORT FOR IMPROVEMENT IN DIGESTIVE DISEASE CURRICULUM.....	GIN	5K07 AM70318-04
HELLER, HORACE C.....	CENTRAL NERVOUS SYSTEM REGULATION OF BODY TEMPERATURE.....	PHY	1K04 NS00041-01
LUETSCHER, JOHN A.....	SECRETION AND METABOLISM OF ADRENAL HORMONES.....	NCR	5K06 AM14176-13
PEDLEY, TIMOTHY A.....	EPILEPTOGENESIS AND NEURAL PLASTICITY.....	NSPB	1K07 NS11075-01
PERKINS, DAVID D.....	GENETIC STUDY OF NEUROSPORA.....	GMK	4K06 GM04899-11
POPP, RICHARD L.....	ECHOCARDIOGRAPHIC STUDY OF CARDIAC DISEASE.....	RAD	5K04 HL70439-04
ROBINSON, WILLIAM S.....	BIOCHEMICAL EVENTS AFTER RNA TUMOR VIRUS INFECTION.....	VR	5K04 CA23487-04
SAKITT, BARBARA.....	PHYSICAL AND NEURAL BASIS OF SENSATION AND PERCEPTION.....	VISB	1K04 EY00004-01
STROBER, SAMUEL.....	CELL MODEL FOR THE INITIATION OF ANTIBODY RESPONSES.....	ALY	5K04 AI70018-05
THEODORE, JAMES.....	PULMONARY ACADEMIC AWARD.....	SRC	1K07 HL00129-01
<b>TORRANCE</b>			
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL</b>		<b>ZIP CODE 90509</b>	
CHOPRA, INDER J.....	THYROID GLAND PHYSIOLOGY IN HEALTH AND DISEASE.....	END	5K04 AM70225-04
EDWARDS, JOHN E.....	HEMATOGENOUS CANDIDA ENDOPHTHALMITIS.....	VSN	1K07 EY00030-01
EFFROS, RICHARD M.....	NEW INDICATOR DILUTION TECHNIQUES.....	CVA	7K04 HL00132-03
SPEERLING, MARK A.....	ENDOCRINE REGULATION OF CARBOHYDRATE METABOLISM.....	MET	1K04 HD00029-01
SWERDLOFF, RONALD S.....	CONTROL OF FSH IN THE MALE PUBERTAL CONTROL MECHANISMS.....	REB	5K04 HD70436-04
<b>COLORADO</b>			
<b>BOULDER</b>			
<b>UNIVERSITY OF COLORADO</b>		<b>ZIP CODE 80302</b>	
CARUTHERS, MARVIN H.....	CHEMISTRY AND MOLECULAR BIOLOGY OF NUCLEIC ACIDS.....	BBCA	1K04 GM00076-01
GOLD, LAWRENCE M.....	GENE EXPRESSION: BIOCHEMISTRY/GENETICS OF TWO CISTRONS.....	GEN	1K04 GM00103-01
HIRSH, DAVID I.....	DEVELOPMENTAL BIOLOGY OF A SMALL NEMATODE.....	CBY	5K04 GM70465-03
JONES, RICHARD E.....	OVARIAN FOLLICULAR GROWTH ENDOCRINE CONTROL IN REPTILES.....	REB	5K04 HD70165-02
<b>DENVER</b>			
<b>UNIVERSITY OF COLORADO MEDICAL CENTER</b>		<b>ZIP CODE 80220</b>	
BETZ, GEORGE.....	STERIOD ENZYMES ISOLATION AND ACTIVE SITE PROPERTIES.....	HDPR	5K04 HD18643-05
BONDY, STEPHEN C.....	EFFECT OF VISUAL DEPRIVATION ON BRAIN DEVELOPMENT.....	NSRA	5K04 NS49945-05
FINK, LOUIS M.....	TRANSFORMATION OF CELLS BY CHEMICAL CARCINOGENS.....	ET	1K04 CA00050-01
GROVER, ROBERT F.....	OXYGEN TRANSPORT MECHANISMS IN MAN AT HIGH ALTITUDE.....	HTA	5K03 HL29237-10
HAHN, WILLIAM E.....	GENETIC EXPRESSION IN NEURONS AND GLIA OF THE BRAIN.....	NSRB	5K04 NS20056-04
KERR, SYLVIA J.....	CONTROL OF TRNA METHYLASES IN NORMAL AND TUMOR TISSUE.....	PC	5K04 CA28074-04
KIMBERLING, WILLIAM J.....	GENE LOCALIZATION IN MAN.....	GEN	5K04 HD70659-03
NEVILLE, MARGARET C.....	ROLE OF INTRACELLULAR COMPARTMENTS IN NUTRIENT TRANSPORT.....	PHY	1K04 AM00038-01
PATTERSON, DAVID.....	GENETIC BIOCHEMICAL REGULATION IN MAMMALIAN CELLS.....	GEN	1K04 AM00044-01
PERKINS, JOHN P.....	ROLE OF CYCLIC AMP IN NORMAL AND MALIGNANT BRAIN CELLS.....	PHRA	5K04 CA70466-04
SEEDS, NICHOLAS W.....	BIOCHEMICAL DIFFERENTIATION OF NERVE CELL CULTURES.....	NEUA	5K04 GM40170-04
WICKELGREN, WARREN O.....	ORGANIZATION OF A PRIMITIVE VERTEBRATE NERVOUS SYSTEM.....	NSRA	5K04 NS50295-05
<b>FORT COLLINS</b>			
<b>COLORADO STATE UNIVERSITY</b>		<b>ZIP CODE 80521</b>	
DUPONT, JACQUELINE.....	DIETARY FAT, CHOLESTEROL SYNTHESIS AND METABOLISM.....	MET	5K04 HL70517-04
HILL, GEORGE C.....	DNA AND CYTOCHROMES IN KINETOPLASTIDAE.....	TMP	5K04 AI70813-02



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>CONNECTICUT</b>			
<b>FARMINGTON</b>			
UNIVERSITY OF CONNECTICUT HEALTH CENTER		ZIP CODE 06032	
CATALANOTTO, FRANK A	SENSORY PHYSIOLOGY IN HEALTH & DISEASE	DEF	1K04 DE00012-01
KOLAKOWSKI, DONALD L	GENETICS OF THE HUMAN DENTITION IN SEVERAL POPULATIONS	GEN	1K04 DE00015-01
PAPPANO, ACHILLES J	PHARMACOLOGY OF DEVELOPING CARDIAC TISSUES	CVB	1K04 HL00027-01
YOSHIDA, TAKESHI	LYMPHOKINE MEDIATORS OF CELLULAR IMMUNITY IN VIVO	IMB	1K04 AI00082-01
<b>MIDDLETOWN</b>			
WESLEYAN UNIVERSITY		ZIP CODE 06457	
BERRY, SPENCER J	NUCLEIC ACID SYNTHESIS AND INSECT DEVELOPMENT	HDGD	5K04 HD50195-05
WOLFE, JASON S	THE DIVISION/DIFFERENTIATION DECISION—FOCUS ON G1	SSS	1K04 GM00140-01
<b>NEW HAVEN</b>			
YALE UNIVERSITY		ZIP CODE 06520	
ASKENASE, PHILIP W	SUPPORT FOR IMPROVEMENT IN ALLERGIC DISEASE CURRICULUM	AIRC	5K07 AI70829-02
BERNARD, GARY D	OPTICAL STRUCTURE AND FUNCTION OF EYES	VSN	5K04 EY48264-05
CANELLAKIS, EVANGELO S	MECHANISMS OF BIOSYNTHESIS OF NUCLEIC ACIDS	GMK	5K06 GM03070-12
CROMAN, JOHN E, JR	ROLE OF LIPIDS IN MEMBRANE FUNCTION	MBC	5K04 GM70411-04
ERNST-FONBERG, MARY LOU	ALTERATIONS IN LIPID METABOLISM DURING DEVELOPMENT	HDGD	5K04 HD25169-05
FELIG, PHILIP	AMINO ACIDS & HORMONES IN GLUCONEOGENESIS & OBESITY	MET	5K04 AM70219-04
GREGORY, DOUGLAS S	CONTROL OF AQUEOUS HUMOR FORMATION	VSN	1K07 EY00037-01
HIGGINS, JOAN A	BIOGENETIC STUDY OF CELLULAR MEMBRANES	MBY	5K04 GM70729-02
HODGE, LON D	BIOCHEM OF REGULATORY PROCESSES IN SYNCHRONIZED CELLS	GMK	5K04 GM42385-07
HOWARD-FLANDERS, PAUL	MECHANISMS FOR THE PERSERVATION OF THE GENOME	NCR	5K06 AM09397-13
KELSEY, JENNIFER L	EPIDEMIOLOGY OF DISEASES OF MUSCULO-SKELETAL SYSTEM	EDC	5K04 NS70502-04
MANUELIDIS, LAURA M	BIOCHEMISTRY/ULTRASTRUCTURE: CNS TUMORS, DEVELOPING CELL	PTHA	1K04 NS00101-01
MICHAEL, CHARLES R	NEUROPHYSIOLOGY OF ALL-CONE VISION	NSRB	3K04 EY21742-05S1
MITCHELL, MALCOLM S	CHEMOTHERAPY AND TUMOR IMMUNOLOGY	ET	5K04 CA70982-02
PAPERMASTER, DAVID S	MEMBRANE BIOSYNTHESIS IN RETINA	VISB	1K04 EY00017-01
PATTON, CURTIS L	HOST INTERACTION WITH PARASITE MEMBRANE TRANSPORT	TMP	5K04 AI70512-04
SCHENKMAN, JOHN B	NATURE OF THE MICROSOMAL MIXED FUNCTION OXIDASE	GMK	5K04 GM19601-05
ZIEGLER, FREDERICK E	NATURAL PRODUCTS & DEVELOPMENT OF SYNTHETIC METHODOLOGY	MCHB	5K04 GM70577-02
<b>STORRS</b>			
UNIVERSITY OF CONNECTICUT		ZIP CODE 06268	
LUCAS-LENARD, JEAN M	MECHANISM OF PROTEIN BIOSYNTHESIS	BIO	5K04 GM09523-05
ROTH, JAY S	STUDIES ON NUCLEASES AND DNA METABOLISM	NCR	5K06 CA18379-14
ZEAMAN, DAVID	RETARDATE DISCRIMINATION LEARNING AND ATTENTION	NCR	5K06 HD20325-13
<b>DIST OF COL</b>			
<b>WASHINGTON</b>			
GEORGE WASHINGTON UNIVERSITY		ZIP CODE 20006	
HERTZ, ROY	CHORIOCARCINOMA AND RELATED TROPHOBLASTIC TUMORS	BLR	2K10 LM71036-02
JACKSON, MICHAEL J	INTESTINAL ACID-BASE TRANSPORT	PHY	5K04 AM70199-04
ZIMMERMAN, HYMAN J	THE SPECTRUM OF HEPATOTOXICITY	BLR	1K10 LM00001-01
GEORGETOWN UNIVERSITY		ZIP CODE 20007	
ANDREWS, J ROBERT	CORRELATIVE RADIOBIOLOGY	BLR	1K10 LM00006-01A1
GILLIS, RICHARD A	NEUROPHARMACOLOGY OF THE CARDIOVASCULAR SYSTEM	PHRA	5K04 HL70678-03

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>DIST OF COL—Continued</b>			
<b>HOWARD UNIVERSITY      ZIP CODE 20001</b>			
STORM, CARLYLE B.....	MECHANISM OF ACTION OF PHENYLALANINE HYDROXYLASE.....	BBCA	5K04 GM70586-03
<b>FLORIDA</b>			
<b>GAINESVILLE</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA      ZIP CODE 32611</b>			
ACHEY, PHILLIP M.....	IONIZING RADIATION ACTION ON DNA.....	RAD	5K04 CA70267-03
CATON, DONALD.....	HORMONAL CONTROL OF UTERINE BLOOD FLOW IN PREGNANCY.....	HED	5K04 HD70552-03
CRISS, WAYNE E.....	METABOLIC CONTROLS IN NEOPLASIA.....	BIO	5K04 CA70187-02
GABBAY, EDMOND J.....	INTERACTION SPECIFICITIES OF NUCLEIC ACIDS.....	GMK	5K04 GM18653-05
GASSET, ANTONIO R.....	TERATOGENIC & TOXIC EFFECTS OF OPHTHALMIC DRUGS.....	VISA	1K04 EY00002-01
ROBERTS, ROBERT M.....	POLYSACCHARIDE METABOLISM IN CYSTIC FIBROSIS FIBROBLASTS.....	MBY	5K04 AM70389-03
TSIBRIS, JOHN C.....	STRUCTURE, FUNCTION, AND REGULATION OF HYDROXYLASES.....	BIO	5K04 GM42386-07
WALDMAN, ROBERT H.....	STUDY OF CELL-MEDIATED IMMUNITY ON SECRETORY SURFACES.....	IMB	5K04 AI36631-05
<b>MIAMI</b>			
<b>UNIVERSITY OF MIAMI      ZIP CODE 33152</b>			
BLOOKI, HOOSHANG.....	CARDIAC PERFORMANCE BEFORE AND AFTER HEART SURGERY.....	SGYA	5K04 HL70670-03
BRADY, AL H.....	STRUCTURE OF ENZYME COMPLEXES IN NEOPLASMS.....	SSS	1K04 CA00100-01
BREW, KEITH.....	CHEMICAL STUDIES OF ENZYMES AND PROTEINS.....	SSS	1K04 GM00147-01
CASWELL, ANTHONY H.....	FLUORESCENT CHELATE PROBES APPLIED TO CARDIAC CELLS.....	BBCA	5K04 HL70151-04
DOWNNEY, KATHLEEN M.....	RNA-DEPENDENT RNA POLYMERASE OF ERYTHROID CELLS.....	MBY	1K04 HL00031-01
HUIJING, FRANCISCUS.....	DETECTION, GENETICS, AND BIOCHEMISTRY OF INBORN DISEASES.....	AMK	5K04 AM46421-05
MUENCH, KARL H.....	AMINOACYL-TRNA SYNTHETASES AND TRNAS OF MAN.....	GMK	5K04 GM13399-05
PETERSON, ERNEST A.....	AUDITORY RESPONSES IN SELECTED MAMMALS.....	CDR	5K04 NS11815-05
<b>TALLAHASSEE</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY      ZIP CODE 32306</b>			
BERKLEY, KAREN J.....	NEUROANATOMY OF SOMATIC PATHWAYS AFFERENT TO THALAMUS.....	NEUA	1K04 NS00118-01
REEVES, ROBERT H.....	THE BIOLOGICAL SIGNIFICANCE OF TRNA MODIFICATIONS.....	PC	1K04 GM00049-01
RILL, RANDOLPH L.....	THE STRUCTURE OF CHROMATIN AND MODEL NUCLEOPROTEINS.....	BBCA	1K04 GM00087-01
<b>TAMPA</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF SOUTH FLORIDA      ZIP CODE 33620</b>			
WONG, KIN-PING.....	RIBOSOME STRUCTURE AND BIOLOGICAL FUNCTION.....	BBCA	5K04 GM70628-03
<b>GEORGIA</b>			
<b>ATHENS</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA      ZIP CODE 30601</b>			
COLE, RONALD S.....	REPAIR OF DNA CONTAINING INTERSTRAND CROSS-LINKS.....	BBCA	1K04 CA00046-01
DERVARTANIAN, DANIEL V.....	EPR STUDIES OF RESPIRATORY COMPONENTS.....	GMK	5K04 GM70010-04
KUSHNER, SIDNEY R.....	BIOCHEMISTRY OF GENETIC RECOMBINATION AND DNA REPAIR.....	MBC	1K04 GM00048-01
LOVINS, ROBERT E.....	DETERMINATION OF ANTIBODY SEQUENCE HETEROGENEITY.....	GMK	5K04 GM30698-05
TRAVIS, JAMES.....	PROTEOLYTIC ENZYMES OF THE BLOOD AND PANCREAS.....	PC	5K04 HL70264-04
VAPNEK, DANIEL.....	MOLECULAR STUDIES ON R-PLASMIDS IN E. COLI.....	MBC	1K04 GM00090-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>GEORGIA—Continued</b>			
<b>ATLANTA</b>			
<b>ATLANTA UNIVERSITY      ZIP CODE 30314</b>			
LUMB, JUDITH R.....	A THEORETICAL AND BIOCHEMICAL STUDY OF LEUKEMIA.....	PTHB	1K04 CA00067-01
<b>EMORY UNIVERSITY      ZIP CODE 30322</b>			
COLLINS, DELWOOD C.....	BIOSYNTHESIS AND METABOLISM OF ESTROGEN CONJUGATES.....	END	5K04 AM70381-03
ELSAS, LOUIS J.....	GENETIC CONTROL OF MEMBRANE TRANSPORT AND METABOLISM.....	HED	5K04 HD35615-03
GROSSMAN, GILBERT D.....	PULMONARY ACADEMIC AWARD.....	PUL	5K07 HL18207-04
HERSEY, STEPHEN J.....	ACID SECRETION BY GASTRIC MUCOSA.....	AMK	5K04 AM29899-04
KUO, JYH-FA.....	HORMONAL CONTROL OF FAT CELLS AND CARDIAC FUNCTION.....	NCR	5K04 GM50165-05
MC FARLIN, DALE E.....	IMMUNOLOGY OF CNS DISEASE.....	NSRB	5K04 NS50266-04
MILLS, JOHN B. III.....	SPECIES SPECIFICITY OF GROWTH HORMONE.....	HDGD	5K04 HD29346-05
NEILL, JIMMY D.....	PHYSIOLOGIC CONTROL OF PROLACTIN SECRETION.....	HDPR	5K04 HD30774-05
SCOTT, JUNE R.....	LYSOGENY IN BACTERIOPHAGE P1.....	VR	5K04 CA70385-03
SMITH, P DENNIS.....	RECOMBINATION PROFICIENCY IN DROSOPHILA MELANOGASTER.....	GEN	3K04 GM70758-01S1
SMITH, P DENNIS.....	RECOMBINATION PROFICIENCY IN DROSOPHILA MELANOGASTER.....	GEN	5K04 GM70758-02
<b>AUGUSTA</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA      ZIP CODE 30902</b>			
CUTRONEO, KENNETH R.....	ANTI-INFLAMMATORY STEROIDS AND COLLAGEN SYNTHESIS.....	MBY	1K04 AM00120-01
SPEIR, WILLIAM A, JR.....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM.....	PUL	5K07 HL70057-02
<b>HAWAII</b>			
<b>HONOLULU</b>			
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA      ZIP CODE 96822</b>			
BRYANT, GILLIAN D.....	BIOCHEMISTRY AND PHYSIOLOGY OF RELAXIN AND PROLACTIN.....	END	5K04 HD70516-04
<b>IDAHO</b>			
<b>MOSCOW</b>			
<b>UNIVERSITY OF IDAHO      ZIP CODE 83843</b>			
WILLETT, JAMES D.....	HORMONES & HORMONAL SYSTEMS IN NEMATODES.....	TMP	1K04 HD00038-01
<b>ILLINOIS</b>			
<b>CHICAGO</b>			
<b>AMERICAN DENTAL ASSOCIATION      ZIP CODE 60611</b>			
LAZDA, VELTA A.....	ROLE OF TRANSFER FACTOR IN DELAYED HYPERSENSITIVITY.....	ALY	5K04 DE70123-04
STEFFEK, ANTHONY J.....	EXPERIMENTAL PRODUCTION OF CLEFT LIP AND PALATE.....	HED	5K04 DE70138-04
<b>ILLINOIS INSTITUTE OF TECHNOLOGY      ZIP CODE 60616</b>			
KOPPLE, KENNETH D.....	CONFORMATIONAL STUDIES OF SYNTHETIC PEPTIDES.....	GMK	5K04 GM47357-05
ROTH, ROBERT M.....	GENETIC CONTROL OF REPLICATION DURING MEIOSIS.....	GEN	5K04 GM70274-03
<b>MICHAEL REESE HOSPITAL AND MEDICAL CENTER      ZIP CODE 60616</b>			
DIAMOND, RICHARD D.....	CELLULAR IMMUNITY IN OPPORTUNISTIC MYCOSES.....	BM	1K04 AI00055-01
SCHNEIDER, ARTHUR B.....	HORMONE STRUCTURE & SECRETION: NORMAL GLANDS & TUMORS.....	END	1K04 AM00103-01



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>ILLINOIS—Continued</b>			
<b>NORTHWESTERN UNIVERSITY ZIP CODE 60611</b>			
ANDERSON, BYRON E.....	STUDY OF RHEUMATOID ARTHRITIS; GLYCOPROTEIN ANTIGENS.....	GMA	5K04 AM70787-02
CARHART, RAYMOND T.....	STUDY OF NORMAL AND PATHOLOGICAL AUDITORY PHENOMENA.....	NCR	5K06 NS16224-12
LAUTENSCHLAGER, EUGENE P.....	MATERIALS AND DESIGNS FOR THE TOTAL HIP.....	GMK	5K04 GM33016-05
SLADE, HUTTON D.....	THE STREPTOCOCCI THEIR STRUCTURE, BIOCHEMICAL ACTIVITY.....	NCR	5K06 GM16284-13
STERN, PAULA H.....	STUDY OF THE PHARMACOLOGY OF BONE.....	GMB	5K04 AM70210-04
TEN EICK, ROBERT E.....	ELECTROPHYSIOLOGICAL BASIS OF HUMAN DYSRHYTHMIAS.....	CVB	1K04 HL00033-01
ZELLER, E ALBERT.....	ENZYMES INVOLVED IN AMINO ACID AND AMINE METABOLISM.....	NCR	5K06 GM14220-13
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER ZIP CODE 60612</b>			
GARLAND, JOHN T.....	HORMONAL CONTROL OF GROWTH AND DEVELOPMENT.....	END	5K04 HD70501-04
SCHAUF, CHARLES L.....	KINETIC STUDIES OF MYXICOLA AXONS/DRUGS FOR M.S. THERAPY.....	NEUB	1K04 NS00004-01
<b>UNIVERSITY OF CHICAGO ZIP CODE 60637</b>			
BOYER, JAMES L.....	ACADEMIC CAREER DEVELOPMENT AWARD IN DIGESTIVE DISEASES.....	GIN	5K07 AM70218-02
BROOKS, HAROLD L.....	MYOCARDIAL RESPONSES FOLLOWING ACUTE INFARCTION.....	CVB	5K04 HL70131-04
DAWSON, GLYN.....	METABOLISM OF GLYCOLIPIDS AND GLYCOPROTEINS.....	NEUA	1K04 NS00029-01
DESEMBRE, EUGENE R.....	BIOCHEMICAL MECHANISM OF HORMONE ACTION.....	END	5K04 HD46249-05
ERNEST, J TERRY.....	PATHOGENESIS OF GLAUCOMATOUS OPTIC NERVE DISEASE.....	VISA	5K04 EY70633-03
ESTERLY, JOHN R.....	PULMONARY INJURY AND REPAIR.....	PUL	5K04 HL19022-05
FRIED, JOSEF.....	STERIODS, PROSTAGLANDINS, AND CARCINOGENIC HYDROCARBONS.....	NCR	5K06 AM21846-12
HOPPER, JOHN E.....	GENETIC STUDIES OF IMMUNOGLOBULIN SYNTHESIS.....	ALY	5K04 AI70137-04
HUNTER, ROBERT L.....	IMMUNOPATHOLOGY OF HUMAN AND ANIMAL CANCER.....	IMB	1K04 CA00032-01
KANE, EILEEN S.....	CENTRAL AUDITORY SYSTEM CONNECTIONS IN MAMMALS.....	CMS	1K04 NS00008-01
KOHLER, KARL H.....	MYELOMA, ANTIBODIES AND RECEPTORS IN IMMUNE RESPONSE.....	ALY	5K04 AI70559-03
ROSENFELD, ROBERT L.....	CIRCULATING DETERMINANTS OF ANDROGEN ACTION.....	END	5K04 HD70152-04
ROTHMAN-DENES, LUCIA B.....	NOVEL TRANSCRIBING ACTIVITIES IN N4-INFECTED E. COLI.....	SSS	1K04 AI00078-01
SCHNEIDER, JOHN F.....	CLINICAL APPLICATION OF STABLE ISOTOPE TRACERS.....	RAD	1K04 AM00133-01
SLATKIN, MONTGOMERY W.....	POPULATION RESPONSE TO SPATIAL AND TEMPORAL VARIATIONS.....	GEN	1K04 GM00118-01
SPARGO, BENJAMIN H.....	STUDIES OF ULTRASTRUCTURAL RENAL CHANGES.....	HTA	5K06 HL04418-12
SPEAR, PATRICIA G.....	MEMBRANE PROTEINS SPECIFIED BY HERPES VIRUSES.....	VR	1K04 CA00035-01
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE ZIP CODE 60680</b>			
SCHULTZ, ALBERT B.....	BIOCHEMICAL STUDIES OF IDIOPATHIC SCOLIOSIS.....	AFY	1K04 AM00029-01
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER ZIP CODE 60680</b>			
BELL, CLARA.....	FOREIGN RNA FOR ANTIBODY SYNTHESIS BY LYMPHOID CELLS.....	ALY	5K04 AI70235-02
<b>DE KALB</b>			
<b>NORTHERN ILLINOIS UNIVERSITY ZIP CODE 60115</b>			
HAMPEL, ARNOLD E.....	LOW MOLECULAR WEIGHT RNAS OF CHO TISSUE CULTURE CELLS.....	PC	5K04 GM70424-03
<b>EVANSTON</b>			
<b>NORTHWESTERN UNIVERSITY ZIP CODE 60201</b>			
DUMAS, LAWRENCE B.....	ROLE OF HOST-CELL PROTEINS IN VIRUS DNA REPLICATION.....	VR	5K04 AI70632-02
HOFFMAN, BRIAN M.....	COBALT RECONSTITUTED MYO- AND HEMOGLOBINS, CYTOCHROMES.....	BBCB	5K04 GM70433-03
KERTESZ, ANDREW E.....	INVESTIGATION OF HUMAN FUSIONAL RESPONSE.....	VISB	3K04 EY70887-01S1
LEWIS, JACK L.....	MECHANICAL PROPERTIES OF BONE AND IMPLANT DESIGN.....	AFY	1K04 AM00081-01
LOACH, PAUL A.....	PHOTORECEPTOR STRUCTURE OF PHOTOSYNTHETIC MEMBRANES.....	BBCA	5K04 GM70133-04
LORAND, LASZLO.....	CHEMISTRY OF BLOOD AND MUSCLE.....	NCR	5K06 HL03512-13
WIGHTMAN, FREDERIC L.....	PITCH PERCEPTION.....	CDR	1K07 NS11072-01
WU, TAI T.....	STRUCTURES OF THE VARIABLE REGIONS OF ANTIBODIES.....	ALY	5K04 AI70497-02
<b>MAYWOOD</b>			
<b>LOYOLA UNIVERSITY MEDICAL CENTER ZIP CODE 60153</b>			
STODOLSKY, MARVIN.....	BACTERIAL GENE ACQUISITION BY PROPHAGE P1.....	MBC	1K04 GM00113-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>ILLINOIS—Continued</b>			
<b>URBANA</b>			
UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN		ZIP CODE 61801	
EBREY, THOMAS G.	MECHANISM OF VISUAL EXCITATION	VISB	1K04 EY00025-01
GENNIS, ROBERT B.	LIPID-REQUIRING MEMBRANE ENZYMES	BBCB	1K04 HL00040-01
GUMPORT, RICHARD I.	FUNCTION AND MECHANISM OF DNA LIGASE	PC	5K04 GM70520-03
KONISKY, JORDAN	MECHANISM OF ACTION OF I-COLICINS ON ESCHERICHIA COLI	MBC	1K04 AI00049-01
UHLENBECK, OLKE C.	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACID	BBCA	5K04 GM70498-03
WEBER, MICHAEL J.	EARLY CELL-SURFACE CHANGES IN VIRAL ONCOGENESIS	CBY	1K04 CA00092-01
<b>INDIANA</b>			
<b>BLOOMINGTON</b>			
INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT BLOOMINGTON		ZIP CODE 47401	
BLUMENTHAL, THOMAS	Q BETA REPLICASE & PROTEIN SYNTHESIS ELONGATION FACTORS	PC	1K04 GM00016-01
ELIZONDO, REYNALDO S.	THERMOREGULATION IN THE RHESUS MONKEY	AFY	1K04 AM00061-01
MAHLER, HENRY R.	STUDY OF STRUCTURE AND FUNCTION OF RESPIRATORY ENZYMES	NCR	5K06 GM05060-14
RAFF, RUDOLF A.	REGULATION OF PROTEIN SYNTHESIS IN EARLY DEVELOPMENT	CBY	1K04 HD00047-01
RICHARDSON, JOHN P.	TRANSCRIPTION OF RNA ON CYCLIC DNA TEMPLATES	MBC	5K04 GM70422-04
<b>INDIANAPOLIS</b>			
INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS		ZIP CODE 46202	
ALLEN, DONALD O.	HORMONAL CONTROL OF ADIPOSE TISSUE METABOLISM	MET	5K04 AM50316-04
CHEN, TSU TEH	BIOMECHANISMS AND CHEMOTHERAPY OF CNS NEOPLASMS	PBHA	5K04 CA50315-04
<b>NOTRE DAME</b>			
UNIVERSITY OF NOTRE DAME		ZIP CODE 46556	
MARTINEZ-CARRION, MARINO	PROBES OF STRUCTURE AND MECHANISMS OF HEART ENZYMES	BIO	5K04 GM70190-03
<b>WEST LAFAYETTE</b>			
PURDUE UNIVERSITY		ZIP CODE 47907	
CRANE, FREDERICK L.	ORGANIZATION AND FUNCTION OF SUBCELLULAR PARTICLES	GMK	4K06 GM21839-11
DILLEY, RICHARD A.	ENERGY TRANSDUCTION IN CHLOROPLAST MEMBRANES	BIO	5K04 GM19404-04
HARTL, DANIEL L.	EVOLUTION OF NEW GENES, DYNAMICS OF GENE SUBSTITUTION	GEN	1K04 GM00023-01
KEENAN, THOMAS W.	MEMBRANE CHANGES ACCOMPANYING MAMMARY TUMORIGENESIS	PC	5K04 GM70596-03
MARKLEY, JOHN L.	THE USE OF NMR TO SOLVE PROBLEMS IN PROTEIN CHEMISTRY	BBCB	1K04 HL00061-01
OSTROY, SANFORD E.	RELATED MOLECULAR AND PHYSIOLOGICAL EVENTS IN VISION	VSN	5K04 EY32951-05
PINTO, LAWRENCE H.	PHOTORECEPTOR SIGNAL GENERATION	VISB	1K04 EY00009-01
WINFREE, ARTHUR T.	PRINCIPLES OF TEMPORAL ORGANIZATION	PHY	5K04 GM70660-03
<b>IOWA</b>			
<b>IOWA CITY</b>			
UNIVERSITY OF IOWA		ZIP CODE 52242	
ARNONE, ARTHUR	X-RAY STUDIES OF HEMOGLOBIN AND REGULATORY ENZYMES	BBCB	1K04 AM00099-01
AUTOR, ANNE P.	STUDIES ON MECHANISM OF OXYGEN AND FREE RADICAL TOXICITY	TOX	1K04 HD00068-01
BARON, JEFFREY	MECHANISMS AND CONTROL OF MAMMALIAN STERIDOGENESIS	END	1K04 AM00091-01
CHALKLEY, ROGER	STRUCTURE AND FUNCTION OF CHROMOSOMAL NUCLEOHISTONE	GMK	5K04 GM46410-05
HALMI, NICHOLAS S.	INVESTIGATION OF THE THYROID AND PITUITARY	NCR	5K06 AM13576-14
HEGMANN, JOSEPH P.	BEHAVIOR, GENETICS, AND PHYSIOLOGICAL FUNCTION	GEN	5K04 NS70099-04

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>IOWA—Continued</b>			
HEISTAD, DONALD D .....	STUDIES ON CARDIOVASCULAR EFFECTS OF HYPOXEMIA.....	PHY	1K04 HL00041-01
HERMSMEYER, R KENT.....	MEMBRANE ELECTRICAL PROPERTIES OF VASCULAR MUSCLE .....	CVA	1K04 HL00073-01
HILLMAN, DEAN E .....	QUANTITATIVE MORPHOLOGY/CENTRAL NERVOUS SYSTEM CIRCUIT .....	NEUA	5K04 NS70277-04
HOAK, JOHN C .....	EFFECT OF LIPIDS ON BLOOD PLATELETS AND ENDOTHELIUM .....	HEM	5K03 HL19370-09
HOCK, JANET M .....	MICROCIRCULATORY FUNCTION IN EARLY GINGIVAL INFLAMMATION.....	DEN	1K04 DE00001-01
MARKOVETZ, ALLEN J.....	METABOLISM OF FATTY ACIDS, KETONES AND HYDROCARBONS .....	GMK	5K04 GM14681-05
PITKIN, ROY M .....	SUPPORT FOR IMPROVEMENT OF NUTRITION CURRICULUM.....	GIN	5K07 AM70694-03
RHODES, MITCHELL L .....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM .....	PUL	5K07 HL70825-02
YOUNOSZAI, M KABIR .....	SUPPORT FOR IMPROVEMENT OF DIGESTIVE DISEASE CURRICULUM.....	GIN	5K07 AM70211-04
<b>KANSAS</b>			
<b>KANSAS CITY</b>			
<b>UNIVERSITY OF KANSAS</b>	<b>ZIP CODE 66103</b>		
BELMONT, JOHN M .....	CHILDREN'S INFORMATION-PROCESSING STRATEGY DECISIONS.....	DBR	1K04 HD00026-01
HURWITZ, ARYEH .....	GASTROINTESTINAL FUNCTION AND DRUG ABSORPTION .....	PHRA	5K04 GM70250-04
KERBY, GERALD R .....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM .....	PUL	5K07 HL70073-02
KLAASSEN, CURTIS D .....	BILIARY FLOW AND EXCRETION OF DRUGS.....	GMK	5K04 GM30996-05
LIU, CHIEN .....	PATHOGENETIC STUDY & DIAGNOSIS OF INFECTIOUS DISEASES .....	NCR	5K06 AI01826-13
PAZDERNIK, THOMAS L .....	PHARMACOLOGICAL MANIPULATION OF HEMO/IMMUNOPOIESIS .....	ET	1K04 CA00006-01
WOOD, JACKIE D .....	FUNCTION OF ENTERIC NEURONS .....	GMA	5K04 AM70726-02
<b>LAWRENCE</b>			
<b>UNIVERSITY OF KANSAS</b>	<b>ZIP CODE 66045</b>		
AKAGI, JAMES M .....	STUDIES ON SULFATE-REDUCING BACTERIA .....	GMK	5K03 GM30262-10
HOUSTON, L LUGENE .....	PROTEIN INTERACTIONS .....	BIO	1K04 CA00114-01
MC CHESNEY, JAMES D .....	GROWTH/DEVELOPMENT AND BIOLOGICALLY ACTIVE TERPENOIDS .....	MCHB	1K04 GM00102-01
PITMAN, IAN H .....	MUTAGENIC AND CYTOTOXIC MECHANISMS .....	MCHB	5K04 GM70100-04
YOCHIM, JEROME M .....	ENDOMETRIAL PREPARATION FOR IMPLANTATION.....	HDPR	5K04 HD08558-05
<b>MANHATTAN</b>			
<b>KANSAS STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE</b>	<b>ZIP CODE 66506</b>		
SMITH, JOSEPH E .....	ERYTHROCYTE ENZYMOPATHIES IN ANIMALS.....	HEM	5K04 HL70119-04
<b>KENTUCKY</b>			
<b>LEXINGTON</b>			
<b>UNIVERSITY OF KENTUCKY</b>	<b>ZIP CODE 40506</b>		
O'NEILL, RICHARD P .....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM .....	PUL	5K07 HL18388-05
<b>LOUISVILLE</b>			
<b>UNIVERSITY OF LOUISVILLE</b>	<b>ZIP CODE 40208</b>		
WESTPHAL, ULRICH F .....	STEROID-PROTEIN INTERACTIONS .....	NCR	5K06 GM14138-13



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>LOUISIANA</b>			
<b>COVINGTON</b>			
<b>TULANE UNIVERSITY DELTA REGIONAL PRIMATE RESEARCH CENTER      ZIP CODE 70433</b>			
LI, YU-TEH .....	GLYCOSIDASES THAT HYDROLYZE GLYCOPROTEINS & GLYCOLIPIDS .....	HDMR	5K04 HD50280-05
SU-CHEN, LI C. ....	BIOCHEMICAL STUDIES ON SPHINGOLIPIDOSES .....	PC	1K04 AM00016-01
<b>NEW ORLEANS</b>			
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS      ZIP CODE 70119</b>			
LOPEZ-S, ALFREDO .....	SUPPORT FOR IMPROVEMENT OF NUTRITION CURRICULUM .....	GIN	5K07 AM70349-02
REEVES, RICHARD E. ....	THE NUTRITION & METABOLISM OF ANAEROBIC ORGANISMS .....	GMK	5K06 GM14023-12
<b>TULANE UNIVERSITY      ZIP CODE 70118</b>			
ALWORTH, WILLIAM L. ....	BIOSYNTHESIS OF THE DBI MOIETY OF VITAMIN B12 .....	PC	5K04 AM70280-04
IGNARRO, LOUIS J. ....	BIOREGULATION OF LYSOSOMAL ENZYME SECRETION .....	PHRA	1K04 AM00076-01
LIU, Y KING .....	BIOMECHANICS OF THE MUSCULOSKELETAL SYSTEM .....	GMK	5K04 GM40723-05
MALEK, EMILE A. ....	EPIDEMIOLOGY AND CONTROL OF SCHISTOSOMIASIS .....	NCR	5K06 AI18424-12
TOU, JEN-SIE H. ....	PHOSPHOLIPID METABOLISM BY LEUKEMIC LEUKOCYTES .....	HEM	1K04 CA00013-01
<b>SHREVEPORT</b>			
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT SHREVEPORT      ZIP CODE 71103</b>			
GEORGE, RONALD B. ....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM .....	PUL	5K07 HL70359-04
<b>MAINE</b>			
<b>PORTLAND</b>			
<b>MAINE MEDICAL CENTER      ZIP CODE 04102</b>			
NELSON, CLIFFORD V. ....	EFFECT OF INTRACARDIAC BLOOD ON HEART DIPOLE MOMENT .....	NCR	5K06 HL01932-14
<b>MARYLAND</b>			
<b>BALTIMORE</b>			
<b>JOHNS HOPKINS UNIVERSITY      ZIP CODE 21218</b>			
ADKINSON, N FRANKLIN, JR. ....	SUPPORT FOR IMPROVEMENT OF ALLERGIC-DISEASE CURRICULUM .....	AIRC	5K07 AI71026-02
ARNOLD, EUGENE A, JR. ....	PROTEIN BIOSYNTHESIS IN NEOPLASIA .....	PTHB	5K04 CA38871-04
BAYLIN, STEPHEN B. ....	BIOGENIC AMINES AND HORMONE RELEASE IN ENDOCRINE TUMORS .....	END	1K04 CA00027-01
BECKER, MARSHALL H. ....	ENHANCING COMPLIANCE WITH MEDICAL RECOMMENDATIONS .....	DBR	1K04 HD00061-01
BERGER, HILLARD .....	MECHANISMS OF RECOMBINATION AND REPLICATION IN PHAGE .....	GEN	5K04 AI23965-05
BRAND, LUDWIG .....	FLUORESCENCE DECAY STUDIES—BIOLOG. NANOSECOND KINETICS .....	BBCA	5K04 GM10245-04
CHILDS, BARTON .....	STUDIES IN HUMAN GENETICS .....	NCR	5K06 HD01104-14
COLE, GERALD A. ....	IMMUNOSUPPRESSION AND EXPERIMENTAL VIRAL INFECTION .....	NSRA	5K04 NS46242-05
COLVIN, MICHAEL .....	PHARMACOLOGY OF CYCLOPHOSPHAMIDE AND NITROSOUREAS .....	ET	1K04 CA00103-01
COMSTOCK, GEORGE W. ....	STUDY OF CARDIORESPIRATORY DISEASE .....	HTA	5K06 HL21670-12
CUATRECASAS, PEDRO .....	POLYPEPTIDE HORMONE ACTION AND AFFINITY CHROMATOGRAPHY .....	AMK	5K04 AM31464-05
DE LONG, MAHLON D. ....	NEUROLOGY AND NEUROPHYSIOLOGY .....	NSRA	5K07 NS11069-02
FENSELAU, ALLAN H. ....	COMPARATIVE STRUCTURE-FUNCTION STUDIES ON GAPDH .....	BIO	5K04 GM70423-04
FENSELAU, CATHERINE C. ....	MASS SPECTROMETRY IN PHARMACOLOGY & BIOMEDICAL RESEARCH .....	MCHB	5K04 GM70417-04
FLAHERTY, JOHN T. ....	PATHOPHYSIOLOGY OF MYOCARDIAL ISCHEMIA .....	SGYB	1K04 HL00019-01
GILLESPIE, ELIZABETH .....	ROLE OF MICROTUBULES IN ALLERGY .....	IMB	1K04 AI00043-01
GOULD, EDWIN .....	ONTOGENY OF MATERNAL-INFANT BEHAVIOR IN PRIMITIVE MAMMAL .....	HDGD	5K04 HD12145-05
HENNEY, CHRISTOPHER S. ....	QUANT. ASPECTS OF CELL MEDIATED & HUMORAL IMMUNOLOGY .....	ALY	5K04 AI70393-04
KAZAZIAN, HAIG H, JR. ....	GENETIC CONTROL OF HEMOGLOBIN SYNTHESIS .....	HEM	5K04 AM70669-03

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>MARYLAND—Continued</b>			
KELLY, THOMAS J. JR.	MECHANISMS OF VIRAL CARCINOGENESIS	VR	5K04 CA70220-04
LEE, YUAN C.	STUDY OF CELL SURFACE COMPLEX CARBOHYDRATES	BIO	5K04 AM70148-04
LILIENTHAL, ABRAHAM M.	RESEARCH IN PUBLIC HEALTH ASPECTS OF CHRONIC DISEASES	NCR	5K06 GM13901-14
MARSH, DAVID G.	IMMUNOCHEMICAL STUDIES OF IMMEDIATE HYPERSENSITIVITY	ALY	5K04 AI50304-05
MAUMENE, IRENE H.	SEGREGATION AND LINKAGE ANALYSIS IN OPHTHALMOGENETICS	GEN	5K04 GM70124-04
MENKES, HAROLD A.	PULMONARY INTERDEPENDENCE	CVA	1K04 HL00058-01
MIGEON, CLAUDE J.	RELATION OF HORMONES TO GROWTH AND DEVELOPMENT	NCR	5K06 AM21855-12
MOLLIVER, MARK E.	PEDIATRIC NEUROLOGY AND NEUROANATOMY	NSRA	5K07 NS11034-05
MURPHY, PATRICK A.	CHEMISTRY AND PHYSIOLOGY OF LEUCOCYTE PYROGEN	BM	1K04 AI00089-01
PIERCE, NATHANIEL F.	PATHOPHYSIOLOGY & IMMUNOLOGY OF INFECTIOUS DIARRHEAS	BM	5K04 AI22272-05
PIRKLE, J. CARL, JR.	ANALYSIS AND EXPERIMENTATION IN BLOOD VOLUME CONTROL	CVB	1K04 HL00068-01
POLJAK, ROBERTO J.	STRUCTURE OF IMMUNOGLOBULINS AND ANTIBODIES	BBCB	5K04 AI70091-04
ROYALL, RICHARD M.	STATISTICAL INFERENCE IN FINITE POPULATIONS	COM	5K04 GM70432-03
SACHS, MURRAY B.	PHYSIOLOGY OF ANIMAL COMMUNICATION BY SOUND	CMS	5K04 GM70588-03
SCOCCA, JOHN J.	MOLECULAR MECHANISMS IN DNA TRANSPORT	MBC	5K04 GM70663-03
SHIN, HYUN S.	ROLE OF COMPLEMENT AND ANTIBODY IN TUMOR IMMUNITY	ALY	5K04 GM50193-05
SYKES, ZENAS M. JR.	POPULATION MATHEMATICS	POP	5K04 HD70404-04
WEINER, LESLIE P.	PATHOGENESIS OF VIRAL INFECTIONS OF THE NERVOUS SYSTEM	NSRA	5K04 NS50274-05
WEISS, BERNARD	ENZYMATIC MODIFICATIONS OF NUCLEIC ACIDS	GMK	5K04 GM29562-05
ZEE, DAVID S.	MECHANISMS OF HUMAN VESTIBULAR AND OCULOMOTOR DISORDERS	NSPA	1K07 NS11071-01
<b>SINAI HOSPITAL OF BALTIMORE      ZIP CODE 21215</b>			
HAUSWIRTH, JUDITH W.	RELATIONSHIP BETWEEN NUTRITION AND CARCINOGENESIS	PHRB	5K04 CA70560-03
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND AT BALTIMORE      ZIP CODE 21201</b>			
KRAHL, VERNON E.	IN VIVO STUDIES OF PULMONARY ANATOMY AND PHYSIOLOGY	NCR	5K06 HL14191-14
<b>MASSACHUSETTS</b>			
<b>AMHERST</b>			
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS AT AMHERST      ZIP CODE 01002</b>			
LEVIN, BRUCE R.	SELECTION IN BACTERIA AND THEIR VIRUSES AND PLASMIDS	GEN	1K04 GM00112-01
WADE, GEORGE N.	HORMONES, BRAIN FUNCTION AND BEHAVIOR	END	1K04 NS00090-01
WORKMAN, PETER L.	COMPONENTS OF HUMAN VARIATION IN GROWTH AND BEHAVIOR	EDC	5K04 HD23551-03
ZIMMERMAN, ROBERT A.	STRUCTURE OF PROTEIN BINDING SITES IN RIBOSOMAL RNA	SSS	1K04 GM00129-01
<b>BOSTON</b>			
<b>BETH ISRAEL HOSPITAL      ZIP CODE 02215</b>			
FROMM, DAVID G.	GASTRIC MUCOSAL PERMEABILITY AND ION TRANSPORT	GMA	1K04 AM00053-01
<b>BOSTON UNIVERSITY      ZIP CODE 02215</b>			
BENNETT, MICHAEL	IMMUNOBIOLOGY OF VIRAL LEUKEMIA AND ITS TREATMENT	VR	5K04 CA70879-02
BRECHER, PETER I.	ANGIOTENSIN ACTION ON TARGET TISSUES	CVB	1K04 HL00050-01
COUSER, WILLIAM G.	IMMUNOLOGIC MECHANISMS OF GLOMERULAR INJURY	ALY	1K04 AM00102-01
GAENSLER, EDWARD A.	APPLIED PULMONARY PHYSIOLOGY	NCR	5K06 HL01173-12
OPPENHEIM, FRANK G.	CHEMISTRY OF SALIVARY PROTEINS	PC	1K04 DE00004-01
SULLIVAN, ALBERT L.	CHARACTERIZATION OF MEMBRANE TRANSFERRIN RECEPTOR SITES	HEM	1K04 AM00054-01
<b>CHILDREN'S HOSPITAL MEDICAL CENTER      ZIP CODE 02115</b>			
ABELSON, HERBERT T.	REGULATION OF RNA METABOLISM IN MAMMALIAN CELLS	MBY	1K04 CA00075-01
COLTEN, HARVEY R.	MEDIATORS OF HYPERSENSITIVITY: GENETIC ASPECTS	ALY	5K04 HD70558-03
FORGET, BERNARD G.	HEMOGLOBIN MESSENGER RNA OF HUMAN ERYTHROID CELLS	HEM	5K04 AM70234-04
GRAND, RICHARD J.	ACADEMIC CAREER DEVELOPMENT AWARD IN DIGESTIVE DISEASES	GIN	5K07 AM44590-04
LA VAIL, MATTHEW M.	CELLULAR MECHANISMS OF INHERITED RETINAL DEGENERATION	VISB	3K04 EY70871-01S1
LATT, SAMUEL A.	HUMAN CHROMOSOME STRUCTURE AND REPLICATION	GEN	1K04 GM00122-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>MASSACHUSETTS—Continued</b>			
MC CAFFEY, RONALD P.....	ANALYZE KINDS OF DNA POLYMERASES IN HUMAN LEUKEMIA.....	HEM	1K04 CA00099-01
ZWAAN, JOHAN J.....	REGULATION OF LENS DEVELOPMENT.....	VIS	5K04 EY46406-04
<b>FORSYTH DENTAL CENTER ZIP CODE 02115</b>			
TAUBMAN, MARTIN A.....	ROLE OF SALIVARY IMMUNOGLOBULINS IN ORAL DISEASES.....	DEN	5K04 DE70122-04
<b>HARVARD UNIVERSITY ZIP CODE 02138</b>			
BECKWITH, JONATHAN R.....	MECHANISMS OF GENETIC REGULATION IN BACTERIA.....	GMK	5K03 GM09027-10
BERSON, ELIOT L.....	ELECTROPHYSIOLOGICAL STUDIES OF RETINAL DEGENERATIONS.....	VISB	5K04 EY70800-02
BING, OSCAR H.....	COMPUTER FEEDBACK STUDY OF CARDIAC MUSCLE MECHANICS.....	CVA	1K04 HL00072-01
CHERNIN, ELI.....	STUDY OF PATHOGENS BY IN VITRO AND RELATED METHODS.....	AID	5K06 AI02455-12
CHURCHILL, WINTHROP H.....	THE ROLE OF MACROPHAGES & BASOPHILS IN TUMOR IMMUNITY.....	SSS	1K04 CA00116-01
CHYLACK, LEO T, JR.....	LENS METABOLISM AND CATARACT FORMATION.....	VISA	1K04 EY00034-01
COTRAN, RAMZI S.....	PATHOPHYSIOLOGY OF THE ENDOTHELIUM.....	HTA	5K03 HL31173-10
CRUMPACKER, CLYDE S, II.....	HERPES VIRUS NUCLEIC ACIDS IN HUMAN TUMORS.....	SSS	1K04 CA00139-01
DICHTER, MARC A.....	CNS CELL CULTURE PHYSIOLOGY & MECHANISMS OF EPILEPSY.....	NEUB	1K04 NS00130-01
FAHIMI, HOSSEIN D.....	FINE STRUCTURAL BASIS OF CELL PERMEABILITY.....	GMK	5K04 GM49305-05
FAREED, GEORGE C.....	SV40 DNA REPLICATION AND TRANSFORMATION.....	SSS	1K04 CA00057-01
FRAENKEL, DAN G.....	INTERMEDIARY CARBOHYDRATE METABOLISM IN BACTERIA.....	GMK	5K03 GM07344-09
FRIEDMAN, PAUL A.....	PLACENTAL TRANSPORT OF VITAMIN B12.....	HED	1K04 HD00023-01
GIGLI, IRMA.....	COMPLEMENT PARTICIPATION IN THE INFLAMMATORY PROCESS.....	ALY	5K04 AM46409-04
GOLDBERG, ALFRED L.....	MECHANISMS OF GROWTH AND ATROPHY OF SKELETAL MUSCLE.....	MET	5K04 NS38289-03
GOLDSTEIN, RICHARD N.....	MORPHOGENESIS AND GENE CONTROL OF SATELLITE PHAGE P4.....	GEN	1K04 AI00084-01
HALL, ZACH W.....	NEURAL CONTROL OF POSTSYNAPTIC MUSCLES PROTEINS.....	NEUA	5K04 NS30984-04
HAMILTON, DAVID W.....	HISTOPHYSIOLOGY AND BIOCHEMISTRY OF THE EPIDIDYMIS.....	PR	1K04 HD46251-05
HARTLEY, LOREN H.....	CORONARY HEART DISEASE, HYPERTENSION, AND FITNESS.....	AFY	5K04 HL32645-03
HAYES, KENNETH C.....	ATHEROGENESIS AND LIPID METABOLISM.....	PTHA	5K04 HL70285-03
HEGSTED, DAVID M.....	QUANTIFICATION OF NUTRITION REQUIREMENTS.....	NCR	5K06 AM18455-14
HUANG, ALICE S.....	CONTROL MECHANISMS DURING VSV REPLICATION.....	VR	5K04 AI70413-04
MC FADDEN, EDWARD R, JR.....	PATHOPHYSIOLOGY OF EXERCISE-INDUCED ASTHMA.....	CVA	1K04 HL00013-01
MC MAHAN, UEL J, II.....	STRUCTURE AND FUNCTION OF SYNAPSES.....	NEUB	5K04 NS70606-03
MOREST, DONALD K.....	STRUCTURE AND DEVELOPMENT OF AUDITORY SYSTEM.....	CDR	5K04 NS42538-05
MOSKOWITZ, MICHAEL A.....	AMPHETAMINE TOXICITY AND BRAIN PROTEIN SYNTHESIS.....	NSPB	1K07 NS11081-01
PATTERSON, PAUL H.....	CELLULAR INTERACTION IN TISSUE CULTURE.....	CBY	5K04 NS70806-02
PAULUS, HENRY P.....	REGULATION OF BIOSYNTHETIC PROCESSES-BACILLUS POLYMYXA.....	GMK	5K03 GM09848-10
PERLMAN, ROBERT L.....	ACTION OF CYCLIC AMP IN ANIMAL CELLS AND BACTERIA.....	MBY	5K04 AM70648-03
PIERCE, CARL W.....	REGULATION OF IMMUNE RESPONSES: CELL INTERACTIONS.....	IMB	5K04 AI70173-04
POLLARD, THOMAS D.....	THE MOLECULAR MECHANISM OF CELLULAR MOTILITY.....	CBY	5K04 GM70755-02
RANDO, ROBERT R.....	SUBSTRATE INDUCED IRREVERSIBLE INHIBITION OF ENZYMES.....	BIO	1K04 GM00014-01
RICHARDSON, CHARLES C.....	STUDY OF STRUCTURE AND SYNTHESIS OF DNA.....	GMK	5K03 GM13634-09
ROCKLIN, ROSS E.....	MECHANISMS OF CELLULAR IMMUNITY IN MAN.....	ALY	5K04 AI70796-02
RUDEMAN, NEIL B.....	GLUCOSE AND AMINO ACID METABOLISM IN SKELETAL MUSCLE.....	MET	5K04 AM15729-04
SCHNITMAN, PAUL A.....	RADIOISOTOPE SCAN OF BONE AROUND DENTAL IMPLANTS.....	DEN	1K04 DE00006-01
SHAW, JAMES H.....	BIOCHEMISTRY OF ORAL TISSUES, SECRETIONS AND DISEASES.....	DTL	5K06 DE22634-12
SPEIZER, FRANK E.....	EPIDEMIOLOGIC STUDIES IN CHRONIC RESPIRATORY DISEASES.....	PTHB	5K04 ES33332-04
STUART, ANN E.....	SYNAPTIC TRANSMISSION.....	VISB	5K04 EY70985-02
THENEN, SHIRLEY W.....	EXPERIMENTAL OBESITY-GENETIC AND ACQUIRED.....	NTN	1K04 AM00106-01
UNANUE, EMIL R.....	STUDIES ON ANTIGENIC STIMULATION.....	IMB	5K04 AI42533-05
WAXMAN, STEPHEN G.....	ORGANIZATION OF MYELINATED AND DEMYELINATED AXONS.....	NEUB	1K04 NS00010-01
ZAPOL, WARREN M.....	MEMBRANE LUNG PERFUSION FOR ACUTE RESPIRATORY FAILURE.....	SCYA	5K04 HL70303-03
<b>MASSACHUSETTS GENERAL HOSPITAL ZIP CODE 02114</b>			
CROWELL, ROBERT M.....	NEUROSURGERY; CEREBROVASCULAR DISEASE.....	NSRA	5K07 NS11001-02
HABENER, JOEL F.....	BIOSYNTHESIS SECRETION & METABOLISM OF PTH & CALCITONIN.....	GMB	5K04 AM70532-04
LINSENMAYER, THOMAS F.....	BIOSYNTHESIS AND ROLE OF MATRIX IN DEVELOPMENT.....	CBY	1K04 AM00031-01
MALAMUD, DANIEL F.....	SALIVARY GLAND GROWTH SECRETION, IMMUNOSUPPRESSION.....	ET	5K04 CA70153-04
MATHIS, RICHARD K.....	ROLE OF PROTEASES AND ANTIPROTEASES IN THE LIVER.....	GMA	1K08 AM00136-01
MC CULLY, KILMER S.....	HOMOCYSTEINE METABOLISM IN GROWTH AND ARTERIOSCLEROSIS.....	MET	5K04 HL18747-05
WALKER, W ALLAN.....	ANTIBODY CONTROL OF ANTIGEN UPTAKE IN SMALL INTESTINE.....	ALY	1K04 AM00025-01
WARDS, JACK R.....	IMMUNITY IN ACUTE AND CHRONIC HEPATITIS.....	IMB	1K08 AM00127-01



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>MASSACHUSETTS—Continued</b>			
<b>NEW ENGLAND DEACONESS HOSPITAL      ZIP CODE 02215</b>			
KNOX, W EUGENE.....	CONTROL OF ENZYME CONCENTRATIONS IN ANIMAL CELLS.....	NCR	5K06 AM02018-13
<b>NEW ENGLAND MEDICAL CENTER HOSPITAL      ZIP CODE 02111</b>			
AGNELLO, VINCENT.....	STUDIES ON HUMAN IMMUNE COMPLEX DISEASES.....	AIRC	5K04 A170968-02
FANBURG, BARRY L.....	HYPERTROPHY, EXCITATION-CONTRACTION, AND LUNG METABOLISM.....	MET	5K03 HL34988-09
GENMARI, FRANK J.....	PATHOPHYSIOLOGY OF ACID-BASE DISORDERS.....	CVA	5K04 HL38908-05
LEVY, STUART B.....	REPLICATION AND TRANSFER OF R FACTOR DNA.....	MBC	5K04 A170132-04
PLAUT, ANDREW G.....	IMMUNOCHEMISTRY AND FUNCTION OF HUMAN MACROGLOBULIN.....	ALY	5K04 A170420-03
POHL, STEPHEN L.....	MECHANISMS OF POLYPEPTIDE HORMONE ACTION.....	MET	1K04 AM00035-01
RABEN, MAURICE S.....	HORMONAL & METABOLIC ASPECTS OF CARDIOVASCULAR FUNCTION.....	NCR	5K06 AM02758-13
SOKOL, SAMUEL.....	ELECTROPHYSIOLOGICAL INDICES OF PHOTOPIC MECHANISMS.....	VISB	3K04 EY70275-01A1S1
<b>PETER BENT BRIGHAM HOSPITAL      ZIP CODE 02115</b>			
LA MONT, JOHN T.....	GLYCOPROTEIN METABOLISM IN COLON CANCER.....	GMA	1K08 AM00138-01
REYNOLDS, EDWARD S, JR.....	MORPHOLOGIC AND BIOCHEMICAL RESPONSES TO CELL INJURY.....	GMK	5K03 GM07309-10
<b>TUFTS UNIVERSITY      ZIP CODE 02111</b>			
COOPER, AMIEL G.....	BLOOD-GROUP ANTIGENS ON TUMOR CELL MEMBRANES.....	PTHB	5K04 CA70680-03
FALING, LEENDERT J.....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM.....	PUL	5K07 HL70366-04
FISHMAN, WILLIAM H.....	ENZYMOLGY IN RELATION TO CANCER.....	NCR	5K06 CA18453-14
GOLDBERG, EDWARD B.....	GENETIC CONTENT AND RECOMBINATION OF DNA FRAGMENTS.....	GMK	5K03 GM07567-10
SONNENSCHN, CARLOS.....	ACTION OF ESTROGENS IN CANCER & REPRODUCTIVE BIOLOGY.....	PTHB	5K04 CA47410-04
<b>CAMBRIDGE</b>			
<b>HARVARD UNIVERSITY      ZIP CODE 02138</b>			
DRESSLER, DAVID H.....	MOLECULAR MECHANISMS INVOLVED IN DNA REPLICATION.....	PC	3K04 GM70440-02S1
DRESSLER, DAVID H.....	MOLECULAR MECHANISMS INVOLVED IN DNA REPLICATION.....	PC	5K04 GM70440-03
HARRISON, STEPHEN C.....	STRUCTURE AND ASSEMBLY OF VIRUSES.....	BBCB	5K04 CA70169-04
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY      ZIP CODE 02139</b>			
BOTSTEIN, DAVID.....	MICROBIAL MOLECULAR GENETICS.....	GEN	5K04 GM70325-04
HECHT, SIDNEY M.....	THE TOTAL SYNTHESIS OF BLEOMYCIN.....	MCHA	1K04 CA00021-01
HUBERMAN, JOEL A.....	MECHANISM OF DNA REPLICATION.....	MBY	5K04 GM70724-02
LODISH, HARVEY F.....	REGULATION OF PROTEIN SYNTHESIS.....	GMK	5K04 GM50175-05
WEISS, THOMAS F.....	MECHANICAL TO NEURAL TRANSDUCTION IN THE COCHLEA.....	CMS	1K04 NS00113-01
<b>CHESTNUT HILL</b>			
<b>BOSTON COLLEGE      ZIP CODE 02167</b>			
KELLY, T ROSS.....	SYNTHESIS OF THE ANTITUMOR AGENT HARRINGTONINE.....	MCHA	1K04 CA00040-01
<b>MEDFORD</b>			
<b>TUFTS UNIVERSITY      ZIP CODE 02155</b>			
ROEDER, KENNETH D.....	NEURAL BASIS OF INSECT BEHAVIOR.....	NCR	5K06 A122093-12
<b>SHREWSBURY</b>			
<b>WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY      ZIP CODE 01545</b>			
BARTKE, ANDRZEJ.....	ROLE OF PROLACTIN IN THE MALE.....	REB	5K04 HD70369-04
CHANG, MIN C.....	FERTILIZABILITY OF MAMMALIAN EGGS.....	NCR	5K06 HD18334-14
<b>WALTHAM</b>			
<b>BRANDEIS UNIVERSITY      ZIP CODE 02154</b>			
HONG, JEN-SHIANG.....	BIOCHEMISTRY AND GENETICS OF MEMBRANE FUNCTIONS.....	MBC	1K04 GM00092-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>MASSACHUSETTS—Continued</b>			
PARRY, RONALD J.....	BIOSYNTHESIS OF CEPHALOTAXUS AND SECURINEGA ALKALOIDS.....	MCHA	1K04 GM00143-01
SCHLEIF, ROBERT F.....	ISOLATION AND ACTION MECHANISM OF ARABINOSE C PROTEIN.....	GMK	5K04 GM38797-05
STEPHENS, RAYMOND E.....	THE FORMATION AND FUNCTION OF MICROTUBULES.....	MBY	5K04 GM70164-04
VAN VUNAKIS, HELEN.....	STRUCTURE & ACTIVITY OF BIOLOGICALLY IMPORTANT MOLECULES.....	NCR	5K06 AI02372-13
<b>EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION      ZIP CODE 02154</b>			
JUNGALWALA, FIROZE B.....	EXPERIMENTAL NEUROTUMORS AND MYELIN METABOLISM.....	PTHA	1K04 CA00144-01
<b>WORCESTER</b>			
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL      ZIP CODE 01605</b>			
FAY, FREDERIC S.....	GENERATION AND REGULATION OF FORCE IN SMOOTH MUSCLE.....	PHY	1K04 HL00048-01
<b>MICHIGAN</b>			
<b>ANN ARBOR</b>			
<b>UNIVERSITY OF MICHIGAN      ZIP CODE 48104</b>			
CLEWELL, DON B.....	STRUCTURE, MAINTENANCE, AND EXPRESSION OF PLASMID DNA.....	MBC	1K04 AI00061-01
MIDGLEY, A REES, JR.....	MOLECULAR BIOLOGICAL STUDIES OF HUMAN GONADOTROPINS.....	HDPR	5K03 HD31812-10
NIEDERHUBER, JOHN E.....	T-CELL, B-CELL DIFFERENTIATION & COOPERATION.....	AIRC	5K04 AI07098-02
SCHULTZ, JEROME S.....	DYNAMICS OF MEMBRANE TRANSPORT.....	GMK	5K04 GM08271-05
WEG, JOHN G.....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM.....	PUL	5K07 HL70368-04
WHITFIELD, HARVEY J, JR.....	EPISOMAL DNA: CONTROL OF REPLICATION AND SEGREGATION.....	MBC	3K04 GM70565-02S1
WHITFIELD, HARVEY J, JR.....	EPISOMAL DNA: CONTROL OF REPLICATION AND SEGREGATION.....	MBC	5K04 GM70565-03
<b>DETROIT</b>			
<b>WAYNE STATE UNIVERSITY      ZIP CODE 48202</b>			
GORELIC, LESTER S.....	RADIATION-INDUCED CARCINOGENESIS, MRNA TURNOVER.....	RAD	5K04 CA70999-02
KING, ALBERT I.....	INJURY MECHANISMS IN OFF-AXIS IMPACT.....	AFY	5K04 GM21145-04
LEWIS, BENJAMIN M.....	PHYSIOLOGICAL STUDY OF PULMONARY CAPILLARY BED.....	NCR	5K06 HL02182-13
<b>EAST LANSING</b>			
<b>MICHIGAN STATE UNIVERSITY      ZIP CODE 48823</b>			
ROMSOS, DALE R.....	METABOLIC EFFECTS OF DIET AND MEAL PATTERN.....	MET	1K04 AM00112-01
RONZIO, ROBERT A.....	MEMBRANE FORMATION AND FUNCTION DURING DEVELOPMENT.....	MBY	5K04 HD70309-04
TROSKO, JAMES E.....	REPAIR PROCESSES IN NORMAL AND ABNORMAL HUMAN CELLS.....	RAD	5K04 CA24085-04
VELICER, LELAND F.....	MOLECULAR BIOLOGY OF RNA TUMOR VIRUSES.....	VR	5K04 CA70808-02
WELSCH, CLIFFORD W.....	ROLE OF THE CENTRAL NERVOUS SYSTEM IN TUMORIGENESIS.....	PTHA	5K04 CA35027-05
<b>ROCHESTER</b>			
<b>OAKLAND UNIVERSITY      ZIP CODE 48063</b>			
RILEY, MICHAEL V.....	METABOLISM OF CORNEA IN RELATION TO CONTROL OF HYDRATION.....	VSN	5K04 EY42581-05
<b>MINNESOTA</b>			
<b>MINNEAPOLIS</b>			
<b>UNIVERSITY OF MINNESOTA      ZIP CODE 55455</b>			
DESNICK, ROBERT J.....	THERAPY OF METABOLIC DISEASES.....	MET	1K04 AM00042-01
DRAGE, CHARLES W.....	PULMONARY ACADEMIC AWARD.....	PUL	5K07 HL70063-02
HALBERG, FRANZ.....	TEMPORAL PARAMETERS OF PHYSIOLOGIC FUNCTIONS.....	NCR	5K06 GM13981-14

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>MINNESOTA—Continued</b>			
KRONENBERG, RICHARD S.....	RESPIRATORY REGULATION: REGIONAL LUNG FUNCTION.....	CVB	5K04 HL70356-03
SCHACHTELE, CHARLES F.....	CARBOHYDRATE METABOLISM BY CARIOGENIC MICROORGANISMS.....	DTL	5K04 DE42859-05
SCHEINMAN, JON I.....	SMOOTH MUSCLE PROTEINS IN DIABETIC VASCULAR DISEASE.....	MET	1K04 AM00126-01A1
SCHWARTZ, SAMUEL.....	BIOLOGICAL AND BIOCHEMICAL EFFECTS OF PORPHYRINS.....	NCR	5K06 GM14086-13
SHAW, ROBERT E.....	ALGEBRAIC MODELS OF COGNITIVE PROCESSES.....	HDGD	5K04 HD24010-05
SLADEK, NORMAN E.....	CYCLOPHOSPHAMIDE-BIOTRANSFORMATION & CYTOTOXIC ACTION.....	ET	5K04 CA70383-04
SPINK, WESLEY W.....	CONTROL OF INFECTIOUS DISEASES IN TWENTIETH CENTURY.....	BLR	5K10 LM26415-03
SUTHERLAND, DAVID E.....	ISOLATION AND TRANSPLANTATION OF PANCREATIC ISLETS.....	SGYB	1K04 AM00161-01
VINCE, ROBERT.....	INHIBITORS AS POTENTIAL ANTICANCER AGENTS.....	ET	5K04 CA25258-04

## ROCHESTER

### MAYO FOUNDATION ZIP CODE 55901

GREENLEAF, JAMES F.....	3-D DISTRIBUTION OF BLOOD FLOW USING RECONSTRUCTION.....	RAD	1K04 HL00060-01
KNOX, FRANKLYN G.....	HUMORAL CONTROL OF RENAL SODIUM REABSORPTION.....	GMB	5K04 HL18518-07
RODARTE, JOSEPH R.....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM.....	PUL	5K07 HL70816-02
YUNGINGER, JOHN W.....	ISOLATION AND CHARACTERIZATION OF MOLD ALLERGENS.....	AIRC	1K07 AI00107-01

### MAYO FOUNDATION-MAYO MEDICAL SCHOOL ZIP CODE 55901

BRIMUON, WILLIAM S.....	AXONAL TRANSPORT IN ADRENERGIC NERVES.....	PHRA	1K04 NS00119-01
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## SAINT PAUL

### UNIVERSITY OF MINNESOTA ZIP CODE 55455

BLOOMFIELD, VICTOR A.....	BIOMOLECULAR STRUCTURE AND ASSEMBLY.....	GMK	5K04 GM15583-05
FAN, DAVID P.....	CELL GROWTH AND DIVISION.....	MBG	5K04 GM70194-04
MUNCK, ECKARD.....	PROPERTIES OF NITROGENASE SYSTEMS/HEMES.....	BBCB	7K04 GM00057-02
SHERIDAN, JUDSON D.....	PHYSIOLOGY OF INTERCELLULAR JUNCTIONS.....	CBY	5K04 CA70388-03

## MISSISSIPPI

### JACKSON

### UNIVERSITY OF MISSISSIPPI MEDICAL CENTER ZIP CODE 39216

BYERS, BENJAMIN R.....	STUDY OF METABOLISM OF BACTERIAL IRON.....	GMK	5K04 GM29366-05
COLEMAN, THOMAS G.....	CONTROL OF BLOOD PRESSURE: EXPERIMENTS AND THEORY.....	CVA	5K04 HL70422-03

## MISSOURI

### COLUMBIA

### UNIVERSITY OF MISSOURI SYSTEM-UNIVERSITY OF MISSOURI AT COLUMBIA ZIP CODE 65201

FORTE, LEONARD R.....	STUDIES OF KIDNEY HORMONE RECEPTORS.....	GMB	5K04 AM70756-02
HARRIS, PATRICK D.....	MICROVASCULAR MECHANISMS IN HYPER- AND HYPO-TENSION.....	CVB	5K04 HL20422-03
WANG, RICHARD J.....	GENETICS OF NORMAL AND MALIGNANT HUMAN CELLS IN CULTURE.....	GEN	5K04 GM70537-04

### SAINT LOUIS

### JEWISH HOSPITAL OF ST. LOUIS ZIP CODE 63178

BIRGE, STANLEY J.....	MECHANISMS OF CALCIUM TRANSPORT.....	SSS	1K04 AM00109-01
ROSENBLUM, DANIEL.....	STRUCTURAL STUDIES OF HUMAN PMN SPECIFIC GRANULES.....	HEM	1K04 CA00017-01

### ST. LOUIS UNIVERSITY ZIP CODE 63103

BOSE, SUBIR K.....	MECHANISM OF TRANSFORMATION BY ONCOGENIC RNA VIRUSES.....	GMK	5K03 GM20789-09
ELICEIRI, GEORGE L.....	HYBRID CELL GENE EXPRESSION AND TUMOR VIRUS EFFECTS.....	VR	5K04 GM70446-04



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>MISSOURI—Continued</b>			
GREEN, MAURICE.....	BIOCHEMISTRY OF VIRAL REPLICATION.....	NCR	5K06 A104739-13
LONGMORE, WILLIAM J.....	REGULATION OF LIPID METABOLISM IN LUNG.....	HTA	5K03 HL11113-09
MARRS, GARRY L.....	MEMBRANE DEVELOPMENT: A BIOCHEMICAL GENETICS APPROACH.....	MBC	1K04 GM00098-01
PADMANABHAN, RADHAKRISHNAN.....	DNA SEQUENCE ANALYSIS ON HUMAN ADENOVIRUS GENOMES.....	PC	1K04 CA00014-01
<b>UNIVERSITY CITY</b>			
<b>WASHINGTON UNIVERSITY      ZIP CODE 63130</b>			
AGRAWAL, HARISH C.....	STUDIES ON MYELIN PROTEIN IN DEVELOPING BRAIN.....	NEUB	5K04 NS70090-02
ARENBERG, IRVING K.....	EXPERIMENTAL OTONEUROPATHOLOGY.....	CDR	5K07 NS11041-06
BAUER, EUGENE A.....	CONTROL OF COLLAGENASE BIOSYNTHESIS IN CELL CULTURE.....	GMA	1K04 AM00077-01
CSAPO, ARPAD I.....	PHYSIOLOGY OF PREGNANCY AND PARTURITION STUDIES.....	NCR	5K06 HD20169-13
DODSON, WILLIAM E.....	METABOLISM OF ANTICONVULSANTS.....	NSPB	1K07 NS11074-01
FERRENDELLI, JAMES A.....	REGIONAL CNS ENERGY AND CYCLIC NUCLEOTIDE METABOLISM.....	NSRA	5K04 NS50292-05
HAHN, THEODORE E.....	DRUG AND HORMONALLY-INDUCED ALTERATIONS IN VITAMIN D.....	GMB	5K04 NS70540-03
HILLMAN, RICHARD E.....	MEMBRANE TRANSPORT OF AMINO ACIDS.....	MET	1K04 AM00080-01
HOCHMUTH, ROBERT M.....	STUDY OF ADHESION AND ELASTICITY IN RED CELL MEMBRANE.....	CVB	5K04 HL70612-03
JACOBS, LAURENCE S.....	REGULATION OF ANTERIOR PITUITARY HORMONE SECRETION.....	END	5K04 AM70521-04
KING, BARRY F.....	FUNCTIONAL CYTOLOGY OF THE PLACENTA AND FETAL MEMBRANES.....	HED	1K04 HD00067-01
KORNFELD, STUART A.....	STRUCTURE AND FUNCTION OF CELL SURFACE RECEPTOR SITES.....	AMK	5K04 AM50298-05
LIN, HSUI-SAN.....	EFFECT OF CYTOTOXIC DRUGS ON LYMPHOMA CELLS.....	PHRB	5K04 CA70730-02
NEEDLEMAN, PHILIP.....	PHARMACOLOGY OF ANGIOTENSIN AND ORGANIC NITRATES.....	PHRA	5K04 HL19586-02
PAGLIARA, ANTHONY S.....	CONTROL OF CARBOHYDRATE METABOLISM AND HORMONE SECRETION.....	MET	1K04 AM00003-01
RAICHEL, MARCUS E.....	STUDIES IN NEUROLOGY.....	NSRB	5K07 NS11059-04
ROBSON, ALAN M.....	GLOMERULAR PERMEABILITY IN RENAL DISEASE.....	GMA	5K04 AM70236-04
ROEDER, ROBERT G.....	MOLECULAR BASIS OF DIFFERENTIATION.....	MBY	5K04 GM70661-03
ROOS, ALBERT.....	PULMONARY BLOOD FLOW AND TRANSMEMBRANE IONIC FLUX.....	NCR	5K06 HL19608-13
ROVAINEN, CARL M.....	ORGANIZATION OF SPINAL CORD.....	NEUB	5K04 NS70391-03
SCHLAEPFER, WILLIAM W.....	STUDY OF PERIPHERAL NERVE DYSFUNCTION.....	NSRB	5K04 NS70037-04
SENIOR, ROBERT M.....	PULMONARY ACADEMIC AWARD.....	PUL	5K07 HL70351-04
SILBERT, DAVID F.....	BIOCHEMICAL GENETIC STUDY OF BACTERIAL FATTY ACIDS.....	MBC	5K04 GM70654-03
SWEET, FREDERICK.....	STEROID BIOSYNTHESIS, TRANSPORT AND MECHANISM OF ACTION.....	END	5K04 HD70788-02
VOLPE, JOSEPH J.....	REGULATION OF FATTY ACID SYNTHESIS DURING DEVELOPMENT.....	MET	5K04 HD70608-02
WEDNER, H JAMES.....	CYCLIC NUCLEOTIDES AND LYMPHOCYTE ACTIVATION.....	ALY	1K04 A100041-01
<b>MONTANA</b>			
<b>BOZEMAN</b>			
<b>MONTANA STATE UNIVERSITY      ZIP CODE 59715</b>			
REED, NORMAN D.....	IMMUNOBIOLOGY OF CONGENITALLY THYMUSLESS MICE.....	IMB	5K04 A170208-04
<b>MISSOULA</b>			
<b>UNIVERSITY OF MONTANA      ZIP CODE 59801</b>			
HILL, WALTER E.....	PHYSICAL STUDIES OF ALTERED RIBOSOMAL SUBUNITS.....	BBCA	5K04 GM19692-03
LARSON, CARL L.....	SPECIFIC AND NONSPECIFIC RESISTANCE CAUSED BY T. BACILLI.....	NCR	5K06 A116502-13
<b>NEBRASKA</b>			
<b>OMAHA</b>			
<b>UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER      ZIP CODE 68105</b>			
SORRELL, MICHAEL F.....	ACADEMIC CAREER DEVELOPMENT IN DIGESTIVE DISEASES.....	GIN	5K07 AM70316-04
WOLF, GERALD L.....	RADIOLOGICAL STUDIES OF LIVER, HEART & RENAL CIRCULATION.....	CVA	5K04 GM70683-03

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>NEW HAMPSHIRE</b>			
<b>HANOVER</b>			
<b>DARTMOUTH COLLEGE</b>	<b>ZIP CODE 03755</b>		
BARTLETT, DONALD, JR.....	FACTORS INFLUENCING LUNG STRUCTURE AND FUNCTION.....	CVA	5K04 HL70129-04
CULP, WILLIAM J.....	SODIUM CHANNEL COMPONENTS OF EXCITABLE MEMBRANES.....	NEUB	1K04 NS00058-01
ELLIOTT, ROGERS.....	REACTION TIME, ATTENTION, AROUSAL, AND ACTIVATION.....	GD	5K04 HD12648-05
GILBERT, JOHN J.....	VITAMIN E: NEW BIOASSAY, ROLE IN ROTIFERS, NEW COMPOUND.....	CBY	5K04 GM70557-02
GRIBBLE, GORDON W.....	INDOLE ALKALOIDS - A NEW SYNTHETIC CONCEPT.....	GMK	5K04 GM23756-05
INSELBURG, JOSEPH W.....	STABLE EPISOME AND PLASMID-HOST CELL INTERACTIONS.....	VR	5K04 AI28818-05
KILHAM, LAWRENCE.....	RELATION OF VIRUSES TO CANCER.....	VR	5K06 CA22652-12
PATRICK, JAMES W.....	TROPHIC INTERACTIONS OF NERVE AND MUSCLE.....	NEUB	1K04 NS00040-01
SALANS, LESTER B.....	MORPHOLOGIC AND METABOLIC STUDIES OF HUMAN OBESITY.....	MET	5K04 AM20076-04
<b>NEW JERSEY</b>			
<b>NEWARK</b>			
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY</b>	<b>ZIP CODE 07103</b>		
REICHMAN, LEE B.....	PULMONARY ACADEMIC AWARD.....	SRC	1K07 HL00124-01
<b>NEW BRUNSWICK</b>			
<b>RUTGERS UNIVERSITY</b>	<b>ZIP CODE 08903</b>		
NIEDERMAN, ROBERT A.....	MOLECULAR ASPECTS OF MEMBRANE DEVELOPMENT.....	MBC	1K04 GM00093-01
OLSON, WILMA K.....	NUCLEIC ACID CONFORMATION AND PROPERTIES.....	BBCA	1K04 GM00155-01
<b>PISCATAWAY</b>			
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL</b>	<b>ZIP CODE 08854</b>		
HOLOWCZAK, JOHN A.....	CELL MODIFICATION AND CONTROL OF POXVIRUS REPLICATION.....	VR	5K04 CA70458-04
<b>PRINCETON</b>			
<b>PRINCETON UNIVERSITY</b>	<b>ZIP CODE 08540</b>		
ALBERTS, BRUCE M.....	BIOLOGICAL FUNCTIONS OF DNA-ASSOCIATED PROTEINS.....	GMK	5K04 GM11781-05
KIRSCHNER, MARC W.....	MECHANISM OF MICROTUBULE ASSEMBLY AND MITOSIS.....	CBY	1K04 GM00063-01
WORCEL, ABRAHAM.....	STRUCTURE OF PROKARYOTIC AND EUKARYOTIC CHROMOSOMES.....	CBY	1K04 GM00101-01
<b>NEW MEXICO</b>			
<b>ALBUQUERQUE</b>			
<b>UNIVERSITY OF NEW MEXICO</b>	<b>ZIP CODE 87131</b>		
KELLEY, ROBERT O.....	GROWTH AND REGULATION OF HUMAN LIMB MESENCHYMA.....	CBY	5K04 HD70407-04
MESSNER, RONALD P.....	LYMPHOCYTE RECEPTORS AND ANTIGENS IN COLLAGEN DISEASE.....	IMB	5K04 AM70301-04
MILLER, JAMES V, JR.....	PROTEIN SYNTHESIS AND LIVER CELL INJURY IN ALCOHOLISM.....	GMA	1K08 AM00139-01
VALL-SPINOSA, ARTHUR.....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM.....	PUL	5K07 HL70833-02
VANDER JAGT, DAVID L.....	ROLE OF GLYOXALASE AND GLUTATHIONE IN CARCINOGENESIS.....	BIO	5K04 CA70939-02
WATERMAN, ROBERT E.....	NORMAL AND CLEFT PALATE DEVELOPMENT IN MAMMALS.....	DEN	1K04 DE00013-01
<b>UNIVERSITY PARK</b>			
<b>NEW MEXICO STATE UNIVERSITY</b>	<b>ZIP CODE 88001</b>		
DARNALL, DENNIS W.....	NEW PROBES OF ENZYME AND PROTEIN STRUCTURE.....	GMK	5K04 GM32014-04

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>NEW YORK</b>			
<b>ALBANY</b>			
STATE UNIVERSITY OF NEW YORK AT ALBANY      ZIP CODE 12222			
EDWARDS, DAVID L.....	REGULATION OF MITOCHONDRIAL MEMBRANE ASSEMBLY.....	GEN	1K04 GM00018-01
STRATTON, HOWARD H.....	CLINICAL MODELING BY PROB FUNCTIONS OF MARKOV CHAIN.....	COM	1K04 GM00082-01
UNION COLLEGE AND UNIVERSITY SYSTEM—ALBANY MEDICAL COLLEGE      ZIP CODE 12208			
ABRAHAM, RAJENDER.....	LYSOSOMAL CHANGES AS MANIFESTATIONS OF TOXIC CELL DAMAGE.....	TOX	5K04 ES70607-03
<b>BUFFALO</b>			
CHILDREN'S HOSPITAL      ZIP CODE 14222			
RATTAZZI, MARIO C.....	LYSOSOMAL ACID HYDROLASE DEFICIENCIES IN MAN.....	GEN	5K04 GM70638-03
NEW YORK STATE DEPARTMENT OF HEALTH—ROSWELL PARK MEMORIAL INSTITUTE      ZIP CODE 14263			
HUI, SEK W.....	ELECTRON DIFFRACTION OF CANCER CELL MEMBRANES.....	BBCB	1K04 CA00084-01
STATE UNIVERSITY OF NEW YORK AT BUFFALO      ZIP CODE 14214			
APICELLA, MICHAEL A.....	NEISSERIAL ANTIGENS.....	AIRC	5K04 AI70747-02
EDWARDS, JOHN A.....	STUDIES OF INHERITED RODENT ANEMIAS & XYY HUMAN MALES.....	HEM	5K04 GM70556-03
EMMINGS, FRED G.....	S. MUTANS SALIVARY ANTIBODY: INDUCTION AND EFFECTS.....	DEN	1K04 DE00007-01
KALMAN, THOMAS I.....	SELECTED STUDIES IN NUCLEIC ACID METABOLISM.....	GMK	5K04 GM34138-05
REED, MICHAEL J.....	ROLE OF CELL-MEDIATED IMMUNITY IN PERIODONTAL DISEASE.....	DEN	1K04 DE70859-01A1
<b>COLD SPRING HARBOR</b>			
COLD SPRING HARBOR LABORATORY      ZIP CODE 11724			
BUKHARI, AHMAD I.....	THE LIFE CYCLE OF MUTATOR PHAGE MU.....	GEN	1K04 GM00127-01
<b>ITHACA</b>			
CORNELL UNIVERSITY      ZIP CODE 14850			
CORRADINO, ROBERT A.....	ORGAN CULTURED DUODENUM: CA ABSORPTIVE MECHANISM, ETC.....	GMB	1K04 AM00115-01
ELSON, ELLIOT L.....	CONFORMATIONAL TRANSITIONS OF BIOLOGICAL POLYMERS.....	BBCB	5K04 GM70499-04
HINKLE, PETER C.....	ION TRANSPORT AND OXIDATIVE PHOSPHORYLATION.....	GMK	5K04 GM22427-05
LEVITSKY, DAVID A.....	STUDY OF THE RELATIONSHIPS BETWEEN NUTRITION & BEHAVIOR.....	EXP	5K04 HD70510-02
WRIGHT, LEMUEL D.....	NEW BIOLOGICALLY ACTIVE COMPOUNDS.....	NCR	5K06 AM16612-13
<b>MANHASSET</b>			
NORTH SHORE UNIVERSITY HOSPITAL      ZIP CODE 11030			
BIRNBAUM, GARY.....	STUDIES ON MULTIPLE SCLEROSIS.....	IMB	1K04 NS00099-01
<b>NEW YORK</b>			
AMERICAN HEALTH FOUNDATION      ZIP CODE 10019			
HECHT, STEPHEN S.....	ISOLATION AND CHEMISTRY OF ENVIRONMENTAL CARCINOGENS.....	TOX	1K04 CA00124-01
CITY UNIVERSITY OF NEW YORK—HUNTER COLLEGE      ZIP CODE 10021			
BEVERIDGE, DAVID L.....	QUANTUM BIOCHEMISTRY.....	BBCA	5K04 GM21281-04
CITY UNIVERSITY OF NEW YORK—MOUNT SINAI SCHOOL OF MEDICINE      ZIP CODE 10029			
GERBER, MICHAEL A.....	ANTIGENIC STRUCTURE AND MORPHOLOGY OF HB AG.....	SSS	1K04 AI00035-01
KEUSCH, GERALD T.....	SHIGELLOSIS: EXOTOXIN, PATHOGENESIS & TOXOID VACCINE.....	AIRC	5K04 AI70847-02
KIRCHBERGER, MADELEINE A.....	REGULATION OF CARDIAC SR CA20-PUMP BY PROTEIN KINASE.....	CVA	1K04 HL00053-01
KRULWICH, TERRY A.....	TRANSPORT IN MEMBRANE VESICLES AND RELATED METABOLISM.....	MBC	1K04 GM00020-01
RAYFIELD, ELLIOT J.....	CARBOHYDRATE METABOLISM - INFECTION INTERRELATIONSHIPS.....	MET	1K04 AM00089-01
TAUB, ROBERT N.....	IMMUNOTHERAPY OF HUMAN LEUKEMIA.....	PTHB	1K04 CA00034-01



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>NEW YORK—Continued</b>			
WYSSBROD, HERMAN R.....	BIOFUNCTIONAL CONFORMATIONS OF IONOPHORES & HORMONES.....	BBCB	5K04 GM70305-04
<b>CITY UNIVERSITY OF NEW YORK—RICHMOND COLLEGE      ZIP CODE 10301</b>			
NAIDER, FRED R.....	PEPTIDE TRANSPORT IN MICROORGANISMS AND MAMMALIAN CELLS.....	MBC	1K04 GM00025-01
<b>COLUMBIA UNIVERSITY      ZIP CODE 10027</b>			
BENESCH, REINHOLD.....	RELATION BETWEEN STRUCTURE AND FUNCTION IN PROTEINS.....	NCR	5K06 HL01137-14
BIGGER, JOHN T, JR.....	CARDIAC ARRHYTHMIAS AND ANTIARRHYTHMIC DRUGS.....	CVB	5K04 HL70204-04
BRASEL, JO ANNE.....	EFFECT OF NUTRITION ON CELL GROWTH.....	HED	5K04 HD70760-02
DESPOMMIER, DICKSON D.....	CHARACTERIZATION OF FUNCTIONAL ANTIGENS OF T. SPIRALIS.....	TMP	5K04 AI70255-04
FISCHBARG, JORGE.....	WATER & ELECTROLYTE TRANSPORT BY CORNEAL ENDOTHELIUM.....	VISA	1K04 EY00006-01
HARVEY, REJANE M.....	CONTROL OF PULMONARY CIRCULATION.....	NCR	5K06 HL16603-13
HENDERSON, ANN S.....	HUMAN GENE SITE LOCALIZATION USING HYBRIDIZATION IN SITU.....	GEN	1K04 GM00017-01
HOLLYFIELD, JOE G.....	DEVELOPMENT OF THE RETINA AND PIGMENT EPITHELIUM.....	VISB	1K04 EY00023-01
JAN, KUNG-MING.....	RHEOLOGY OF RBC INTERACTION IN HEALTH AND DISEASE.....	CVB	1K04 HL00036-01
KAYE, GORDON I.....	STUDIES OF TRANSPORT, SECRETION AND ABSORPTION SITES.....	CBY	5K04 AM70333-04
KIRSTEN, EDWARD B.....	PHYSIOLOGY AND PHARMACOL OF MOTION-MODULATED NEURONS.....	PHRA	5K04 GM70179-04
MOYER, RICHARD W.....	REGULATION OF BACTERIOPHAGE T5 REPRODUCTION.....	GMK	5K04 GM34354-05
ROSENKRANZ, HERBERT S.....	STUDY OF MAMMALIAN AND BACTERIAL EPISODES.....	GMK	5K03 GM29024-10
ROSSO, PEDRO P.....	MATERNAL MALNUTRITION AND TRANSFER OF NUTRIENTS.....	NTN	1K04 HD00116-01
THOMPSON, ELIZABETH B.....	MORPHOLOGY OF IDENTIFIED SYNAPSES.....	NEUA	1K04 NS00122-01
TONNOORF, JUERGEN.....	PHYSIOLOGY OF THE EAR.....	CDR	5K06 NS21691-12
WILNER, GEORGE D.....	BASIC MECHANISMS OF INITIATION OF THROMBOSIS.....	HEM	5K04 HL70447-03
ZIMMERMAN, EARL A.....	STUDIES IN NEUROENDOCRINOLOGY.....	NSRB	5K07 NS11008-04
<b>CORNELL UNIVERSITY MEDICAL CENTER      ZIP CODE 10021</b>			
BLACK, IRA B.....	NEUROBIOLOGY.....	NSRA	5K07 NS11032-05
COLLINS, ROBERT C.....	CEREBRAL ENERGY METABOLISM IN FOCAL SEIZURES.....	NSPA	1K07 NS11089-01
GARDNER, DANIEL.....	SYNAPTIC ORGANIZATION OF IDENTIFIED NEURAL NETWORKS.....	PHY	1K04 NS00003-01
HARPEL, PETER C.....	STUDIES OF CLOTTING AND KALLIKREIN SYSTEM INTERACTION.....	HEM	5K04 HL50285-05
JONES, THOMAS C.....	MECHANISMS OF MICROBIAL SURVIVAL IN PHAGOCYTTIC CELLS.....	TMP	5K04 AI70754-02
KING, THOMAS K.....	PULMONARY ACADEMIC AWARD.....	PUL	5K07 HL70357-04
KRAUSS, ALFRED N.....	RESPIRATORY CHEMOSENSITIVITY IN PREMATURE INFANTS.....	CYA	5K04 HD70471-04
PETERSON, RALPH E.....	METABOLISM AND REGULATION OF ADRENOCORTICAL SECRETIONS.....	NCR	5K06 AM14241-14
SHAPIRO, WILLIAM R.....	CHEMOTHERAPY OF EXPERIMENTAL BRAIN TUMORS.....	NSRA	5K06 NS05029-05
SMITH, GERARD P.....	NEUROENDOCRINOLOGY OF REGULATION AND REINFORCEMENT.....	NSRB	5K04 NS38601-06
WASTERLAIN, CLAUDE G.....	BRAIN PROTEIN SYNTHESIS & BRAIN DEVELOPMENT IN EPILEPSY.....	NEUB	5K04 NS70634-03
WEKSLER, MARC E.....	LYMPHOBLAST-ASSOCIATED ANTIGENS.....	PTHB	5K04 CA32102-02
<b>HOSPITAL FOR SPECIAL SURGERY      ZIP CODE 10021</b>			
BOSKEY, ADELE L.....	MECHANISM OF TOOTH & BONE MINERALIZATION.....	DEN	1K04 DE00002-01
<b>MONTEFIORE HOSPITAL AND MEDICAL CENTER      ZIP CODE 10467</b>			
SURKS, MARTIN I.....	THYROID HORMONE ACTION & CONTROL OF PITUITARY NEOPLASIA.....	END	5K04 AM19502-03
<b>NEW YORK CITY HEALTH SERVICES ADMINISTRATION—PUBLIC HEALTH RESEARCH INSTITUTE OF CITY OF N Y      ZIP CODE 10016</b>			
DAY, LOREN A.....	BIOCHEMISTRY AND BIOPHYSICS OF NUCLEOPROTEINS.....	BBCB	5K04 GM70363-04
DUBNAU, DAVID A.....	MECHANISMS OF RECOMBINATION IN BACILLUS SUBTILIS.....	MBC	5K04 GM08837-04
MINDICH, LEONARD E.....	CELL MEMBRANE SYNTHESIS IN THE CONTROL OF GROWTH.....	MBC	5K04 GM70474-04
NOVICK, RICHARD P.....	GENETIC AND MOLECULAR ANALYSIS OF PLASMID REPLICATION.....	GMK	5K04 GM12252-05
OISHI, MICHIO.....	RNA SYNTHESIS, RECOMBINATION & DNA REPLICATION.....	GEN	5K04 GM70538-03
SMITH, ISSAR.....	GENETICS OF ANTIBIOTIC RESISTANCE AND RIBOSOMES.....	GEN	5K04 GM07871-04
<b>NEW YORK MEDICAL COLLEGE      ZIP CODE 10029</b>			
LERNER, ROBERT G.....	LEUKOCYTES IN BLOOD COAGULATION AND THROMBOSIS.....	HEM	5K04 HL70496-04
THEIS, GAIL A.....	IMMUNOGENETIC STUDY OF MAREK'S DISEASE.....	VR	5K04 CA70812-02
THURSH, DONALD R.....	CIRCULATING LYMPHOID CELLS IN SPECIFIC IMMUNITY.....	ALY	5K04 AI70789-02
<b>NEW YORK UNIVERSITY      ZIP CODE 10003</b>			
BASCH, ROSS S.....	REGULATORY MECHANISMS IN EMBRYONIC DEVELOPMENT.....	HDPB	5K03 HD34968-09

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>NEW YORK—Continued</b>			
BERNHEIMER, ALAN W.	STAPHYLOCOCCAL AND STREPTOCOCCAL PROTEINS	NCR	5K06 A114198-14
CASTELLUCCI, VINCENT F.	NEURAL MECHANISMS IN DEVELOPMENT AND BEHAVIOR	NEUB	5K04 NS70346-04
FINKELSTEIN, MARTIN S.	VIRAL RESISTANCE TO PLANT LECTINS	AIRC	5K04 A136028-02
FREEDMAN, MICHAEL L.	TRANSLATIONAL CONTROL OF HUMAN HEMOGLOBIN SYNTHESIS	HEM	5K04 AM49358-02
GOLDSTEIN, BERNARD D.	BIOLOGICAL EFFECTS OF PHOTOCHEMICAL AIR POLLUTANTS	ESTC	5K04 ES29409-05
GUNNISON, ALBERT F.	MAMMALIAN TOXICOLOGY OF SO <sub>2</sub> AND SULFITE SALTS	TOX	1K04 ES00005-01
HIRSCHHORN, ROCHELLE	GENETIC STUDIES IN ACTIVATED LYMPHOCYTES	ALY	5K04 A170254-04
KIMMICH, GEORGE A.	MECHANISM OF NAO-DEPENDENT SUGAR & AMINO ACID TRANSPORT	PHY	5K04 AM70166-04
MAAS, WERNER K.	ENZYME REPRESSION, GENETICS OF EPISOMES, AA PERMEASES	NCR	5K06 GM15129-12
MEISS, HARRIET K.	ISOLATION AND ANALYSIS OF TS DNA MUTANTS OF BHK CELLS	GEN	1K04 CA00020-01
PHILLIPS-QUAGLIATA, J. M.	FACTORS AFFECTING IMMUNE RESPONSIVENESS AND TOLERANCE	ALY	5K04 A170653-03
SHAPIRO, ROBERT	CHEMICAL REACTIONS OF DNA AND RNA	GMK	5K04 GM50188-04
<b>POLYTECHNIC INSTITUTE OF NEW YORK      ZIP CODE 11201</b>			
TOONEY, NANCY M.	FIBRINOGEN: STRUCTURE AND MOLECULAR INTERACTIONS	BBCB	1K04 HL00062-01
<b>ROCKEFELLER UNIVERSITY      ZIP CODE 10021</b>			
ALVARES, ALVITO P.	TOXICOLOGY OF ENVIRONMENTAL POLLUTANTS	TOX	1K04 ES00010-01
BLOBEL, GUNTER K.	STRUCTURE & FUNCTION OF FREE & MEMBRANE-BOUND POLYSOMES	GMK	5K04 GM24711-05
GILULA, NORTON B.	CELL MEMBRANE INTERACTIONS AND COMMUNICATION	CBY	1K04 HL00110-01
GOLDBERG, ALLAN R.	RSV FUNCTIONS INVOLVED IN TRANSFORMATION	VR	5K04 CA70992-02
<b>ROOSEVELT HOSPITAL      ZIP CODE 10019</b>			
LEGATO, MARIANNE J.	MAMMALIAN MYOCARDIAL CELL ULTRASTRUCTURE AND FUNCTION	CVA	5K04 HL70406-04
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH      ZIP CODE 10021</b>			
MARQUARDT, HANS W.	CHEMICALLY INDUCED MALIGNANT TRANSFORMATION IN VITRO	ET	1K04 CA00127-01
<b>TESHIVA UNIVERSITY      ZIP CODE 10033</b>			
BREWER, CURTIS F.	NMR STUDIES OF HAPTEN-ANTIBODY INTERACTIONS	BBCB	1K04 CA00184-01
ENGEL, JEROME, JR.	NEUROPHYSIOLOGICAL CORRELATES OF NEW BEHAVIOR	NEUA	5K04 NS70209-04
FROSOLONO, MICHAEL F.	BIOCHEMISTRY OF PULMONARY SURFACTANT SYSTEM	CVA	1K04 HL00105-01
HENRY, SUSAN A.	GENETICS AND DEVELOPMENT OF YEAST MEMBRANE MUTANTS	GEN	1K04 GM00024-01
HIGHSTEIN, STEPHEN M.	OCULOMOTOR SYNAPTIC LINKAGE C N S SYNAPTIC TRANSMISSION	VISB	1K04 EY00003-01
HORWITZ, MARSHALL S.	VIRAL DNA SYNTHESIS IN INFECTED AND TRANSFORMED CELLS	VR	5K04 CA35554-04
HORWITZ, SUSAN B.	PHARMACOLOGY OF DRUG INTERACTIONS WITH MACROMOLECULES	GMK	3K04 GM11147-05S1
KEISER, HAROLD D.	IMMUNOCHEMISTRY OF CARTILAGE PROTEOGLYCAN	ALY	1K04 AM00024-01
LEVENSON, STANLEY M.	PROBLEMS OF SURGICAL METABOLISM	NCR	5K06 GM14208-14
LITOWSKY, IRVING	CONFORMATION OF FERRITIN AND SUGARS	GMK	5K04 GM19958-04
NOVIOFF, ALEX B.	BIOCHEMICAL CYTOLOGY OF NORMAL AND MALIGNANT CELLS	NCR	5K06 CA14923-14
PEISACH, JACK	HEME PROTEIN STRUCTURE AND FUNCTION	GMK	5K03 GM31156-10
RAINE, CEDRIC S.	PATHOGENESIS OF CNS & PNS DEMYELINATING LESIONS	NEUB	5K04 NS70265-04
REICHEL, JOSEPH	PULMONARY ACADEMIC AWARD	PUL	3K07 HL70076-03S1
REICHEL, JOSEPH	PULMONARY ACADEMIC AWARD	PUL	5K07 HL70076-04
ROSEN, ORA M.	CYCLIC 3,5-NUCLEOTIDES AND MECHANISMS OF HORMONE ACTION	GMK	5K03 GM22345-10
RUBIN, MERYL S.	REGULATION OF MEMBRANE PERMEABILITY: MOLECULAR BASIS	GMB	1K04 AM00010-01
SCARPELLI, EMILE M.	THE PHYSIOLOGY OF PULMONARY SURFACTANTS	HTA	5K03 HL10613-10
SHAFRITZ, DAVID A.	PROTEIN SYNTHESIS IN NORMAL AND REGENERATING LIVER	PTHB	1K04 AM00027-01
SODIRO, RUY	RNA IN HUMAN CANCER AND IN FLV INFECTED CELLS	MBY	5K04 CA70580-03
STRECKER, HAROLD J.	CONTROL OF ENZYME SYSTEMS	NCR	5K06 GM02487-12
WITTENBERG, JONATHAN B.	OXYGEN METABOLISM	HT	5K06 HL00733-12
WOLINSKY, HARVEY	ARTERIAL STRUCTURE AND FUNCTION IN HEALTH AND DISEASE	CVB	5K04 HL70243-04
WU, CHENG-WEN	REGULATION AND MECHANISM OF GENE TRANSCRIPTION	BBCA	3K04 GM70253-03S1
WU, CHENG-WEN	REGULATION AND MECHANISM OF GENE TRANSCRIPTION	BBCA	5K04 GM70253-04

## ROCHESTER

### UNIVERSITY OF ROCHESTER      ZIP CODE 14627

ABRAHAM, GEORGE N.	SUPPORT FOR IMPROVEMENT OF ALLERGIC-DISEASE CURRICULUM	AIRC	5K07 A170834-02
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**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>NEW YORK—Continued</b>			
BERNHARD, WILLIAM A.....	THE EFFECTS OF IONIZING RADIATION ON NUCLEIC ACIDS.....	RAD	5K04 GM70337-04
BIGNALL, KEITH E.....	ONTOGENY OF BRAIN AND BEHAVIOR AND CORTICAL PROJECTIONS.....	NSRA	5K04 NS20355-05
BRAND, JOHN S.....	SEPARATION & CHARACTERIZATION OF ISOLATED BONE CELLS.....	GMB	1K04 AM00101-01
CAMPBELL, ROBERT G.....	ACADEMIC CAREER DEVELOPMENT AWARD IN NUTRITION.....	GIN	5K07 AM70290-04
COHEN, NICHOLAS.....	LYMPHOCYTE PHYLOGENY-DIVERSE REACTIONS TO H-ANTIGENS.....	IMB	5K04 AI70736-02
FORBES, GILBERT B.....	CHEMICAL STUDIES IN GROWTH AND DEVELOPMENT.....	NCR	5K06 HD18454-14
HALL, WILLIAM J.....	PULMONARY ACADEMIC AWARD.....	PUL	5K07 HL70822-02
HATTMAN, STANLEY M.....	CONTROL MECHANISMS IN PHAGE-HOST CELL INTERACTIONS.....	VR	5K04 AI28022-04
LANGE, CHRISTOPHER S.....	MOLECULAR BASIS FOR REPAIR OF CELLULAR RADIATION DAMAGE.....	RAD	5K04 CA70299-04
MERIN, ROBERT G.....	ANESTHETIC EFFECTS ON HEART AND METABOLISM.....	SGYA	5K04 HL31752-04
PECK, WILLIAM A.....	MECHANISMS OF HORMONE ACTION.....	AMK	5K04 AM49931-05
POLAND, ALAN P.....	TOXICITY OF 2,3,7,8-TETROCHLORODIBENZO-P-DIOXIN.....	TOX	1K04 ES00017-01
PRAKASH, LOUISE.....	REPAIR OF DAMAGED DNA AND MUTAGENESIS IN YEAST.....	GEN	1K04 GM00004-01
SCHNEIDER, MARTIN F.....	CALCIUM CONCENTRATION CHANGES IN MUSCLE FIBERS.....	PHY	1K04 NS00078-01
SCOTT, DAVID E.....	FINE STRUCTURAL CORRELATES OF NEUROENDOCRINE MECHANISMS.....	GMK	5K04 GM70001-05
SEGEL, GEORGE B.....	PHYSIOLOGY AND CELL DIVISION IN NORMAL & LEUKEMIC CELLS.....	HEM	1K04 CA00019-01
TABER, HARRY W.....	CONTROL OF BACTERIAL MEMBRANE SYNTHESIS.....	MBG	5K04 AI70655-02
WAAG, ROBERT C.....	COMPUTER-BASED CARDIAC ULTRASOUND IMAGING.....	RAD	1K04 HL00067-01
WEITKAMP, LOWELL R.....	HUMAN AUTOSOMAL MAPPING.....	HDMR	5K04 HD50248-05
WILHELM, JAMES M.....	STUDIES OF VIRUS REPLICATION AND TRANSFORMATION.....	SSS	1K04 CA00061-01
WOODWARD, DONALD J.....	STUDIES IN NEUROPHYSIOLOGY.....	NSRB	5K07 NS11030-05
<b>SARANAC LAKE</b>			
<b>TRUDEAU INSTITUTE      ZIP CODE 12983</b>			
CARTER, PHILIP B.....	HOST RESPONSE TO INTESTINAL FLORA.....	BM	1K04 AM00073-01
<b>STONY BROOK</b>			
<b>STATE UNIVERSITY OF NEW YORK AT STONY BROOK      ZIP CODE 11794</b>			
DUDOCK, BERNARD S.....	TRNA: SYNTHETASE RECOGNITION; ROLE IN DEVELOPMENT.....	PC	5K04 CA70681-03
KOEHN, RICHARD K.....	BIOCHEMICAL STUDIES OF POLYMORPHIC ENZYME SYSTEMS.....	GMK	5K04 GM28963-04
<b>SYRACUSE</b>			
<b>SYRACUSE UNIVERSITY      ZIP CODE 13210</b>			
FONDY, THOMAS P.....	GLYCEROL-P DEHYDROGENASE IN DIFFERENTIATION AND CANCER.....	ET	5K04 CA70332-04
<b>TROY</b>			
<b>RENSSELAER POLYTECHNIC INSTITUTE      ZIP CODE 12181</b>			
KRAUSE, SONJA.....	ELECTRO-OPTIC STUDIES OF BIOPOLYMERS.....	BBGB	5K04 AM00048-02
<b>NORTH CAROLINA</b>			
<b>CHAPEL HILL</b>			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL      ZIP CODE 27514</b>			
BRIGGAMAN, ROBERT A.....	EPIDERMAL-DERMAL JUNCTION AND BULLOUS DISEASES.....	PTHA	1K04 AM00119-01
BUTLER, THOMAS C.....	STUDIES OF DRUG METABOLISM AND OF INTRACELLULAR PH.....	GMK	5K06 GM19429-12
CAPLOW, MICHAEL.....	MECHANISM OF ENZYME ACTION.....	GMK	5K04 GM10010-05
COFFEY, JAMES C, JR.....	ACTION OF ANDROGEN ON SUBMAXILLARY GLAND FUNCTION.....	END	1K04 DE00014-01
COOPER, CARY W.....	SECRETION AND ACTION OF HORMONES IN CALCIUM METABOLISM.....	GMB	5K04 AM50293-04
COOPER, HERBERT A.....	HEMOPHILIA AND VON WILLEBRAND'S DISEASE.....	HEM	1K04 HL00081-01
DREYER, DUANE A.....	ANATOMOPHYSIOLOGICAL BASES OF OROFACIAL SENSATION.....	NEUA	1K04 DE00011-01
EDGEHILL, MARSHALL H.....	EUKARYOTIC GENE ORGANIZATION.....	GEN	1K04 GM00126-01
ELSTON, ROBERT C.....	GENETICS OF ANTHROPOMETRIC AND MENTAL TRAITS.....	GMK	5K03 GM31732-10



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>NORTH CAROLINA—Continued</b>			
HARRISON, JOHN H.	STUDY OF MALATE DEHYDROGENASE FROM PORCINE HEART	BIO	5K04 HL70728-02
HEIZER, WILLIAM D.	INTESTINAL PEPTIDASES: PROPERTIES AND FUNCTIONS	BIO	5K04 AM70338-04
HOLBROOK, DAVID J, JR.	PHARMACOLOGY & TOXICOLOGY OF AMINOQUINOLINES	PHRA	5K04 GM70114-03
HUTCHISON, CLOYDE A, III.	GENETICS AND DNA CHEMISTRY OF PHAGE PHI X-174	PC	5K04 AI70604-03
KOCH, GARY G.	STATISTICAL MODELS FOR ANALYSIS OF CATEGORICAL DATA	GMK	5K04 GM70004-05
KUPPER, LAWRENCE L.	STATISTICAL MODELS FOR ENVIRONMENTAL HEALTH DATA	EDC	1K04 ES00003-01
LUCCHESI, JOHN C.	GENETIC REGULATION IN DEVELOPING SYSTEMS	GMK	5K04 GM14277-05
POWELL, DON W.	MECHANISM OF INTESTINAL SECRETION	PHY	5K04 AM70454-03
REMLER, MICHAEL P.	ANATOMICAL AND PHYSIOLOGICAL CORRELATION IN THE NEUROPIIL	NEUB	5K04 NS43436-04
RHEINGOLD, HARRIET L.	SOCIAL AND EXPLORATORY BEHAVIOR IN THE HUMAN INFANT	NCR	5K06 HD23620-12
SPARLING, FREDERICK	ANTIBIOTIC INHIBITORS OF THE RIBOSOME	GEN	5K04 AI33032-05
STAFFORD, DARREL W.	STUDY OF CONTROL OF RRNA TRANSCRIPTION	CBY	5K04 GM70310-04
VAN WYK, JUDSON J.	ENDOCRINOLOGIC AND METABOLIC PROBLEMS IN CHILDREN	NCR	5K06 AM14115-14
WOLFENDEN, RICHARD V.	TRANSITION STATE ANALOGS FOR ENZYME CATALYSIS	AMK	5K04 AM08560-05
<b>DURHAM</b>			
<b>DUKE UNIVERSITY      ZIP CODE 27706</b>			
ADELMAN, MARK R.	BIOLOGICAL MOTILITY AND RIBOSOME-MEMBRANE INTERACTION	CBY	5K04 GM70581-03
AMOS, D BERNARD	FUNDAMENTALS OF THE MECHANISMS OF HOMOGRAFT IMMUNITY	NCR	5K06 AI18399-14
ANDERSON, ROBERT W.	THE PATHOPHYSIOLOGY OF THE MICROCIRCULATION IN SHOCK	SGYA	5K04 HL70455-04
BACHE, ROBERT J.	THE RESPONSE OF THE CORONARY VASCULATURE TO ISCHEMIA	CVA	1K04 HL00039-01
BIGNER, DARELL D.	NEUROPATHOLOGY, IMMUNOLOGY - VIROLOGY	NSRB	5K07 NS11063-02
BOYNTON, JOHN E.	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION	GEN	5K04 GM70453-03
BUCKLEY, REBECCA H.	ALLERGIC DISEASES ACADEMIC AWARD	STC	5K07 AI70830-02
CARTMILL, MATTHEW	COMPARATIVE ANATOMY OF ANTERIOR CAROTID ARTERY	PTHA	1K04 HD00083-01
COSTELLO, MARTIN J, III.	X-RAY AND FREEZE-FRACTURE STUDIES ON DISK MEMBRANES	VSN	1K07 EY00035-01
ERICKSON, HAROLD P.	COMPUTER PROCESSING SYSTEMS FOR ELECTRON MICROSCOPY	COM	5K04 GM23445-04
EVANS, EVAN A.	MATERIAL BEHAVIOR AND VIABILITY OF PLASMA MEMBRANES	BBCB	1K04 HL00063-01
GILLHAM, NICHOLAS W.	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION	GEN	5K04 GM70437-03
GOLDSMITH, LOWELL A.	STRUCTURAL PROTEINS IN GENETIC DEFECTS OF EPIDERMIS	GMA	1K04 AM00008-01
GREENFIELD, JOSEPH C, JR.	INSTANTANEOUS PRESSURE AND FLOW IN THE HUMAN CIRCULATION	HTA	5K03 HL28112-10
HACKEL, DONALD B.	PATHOLOGIC, PHYSIOLOGIC, AND METABOLIC STUDIES OF HEART	NCR	5K06 HL14188-14
HANDWERGER, STUART	THE CHEMISTRY AND PHYSIOLOGY OF PLACENTAL LACTOGEN	HED	1K04 HD00065-01
HEYMAN, ALBERT	CIRCULATORY CHANGES IN CEREBROVASCULAR DISEASE	NCR	5K06 NS16677-13
KELLEY, WILLIAM N.	REGULATION OF PURINE METABOLISM IN HUMAN CELLS	MET	5K04 AM70276-04
KILLENBERG, PAUL G.	CLINICAL INVESTIGATOR AWARD IN DIGESTIVE DISEASES	GIN	5K08 AM70688-03
KLINTWORTH, GORDON K.	EXPERIMENTAL APPROACH TO CORNEAL DISEASES	VSN	5K04 EY44795-05
LAUF, PETER K.	NATURE OF ML-ANTIGENS IN RED CELLS AND CATION TRANSPORT	GMK	5K04 GM50194-05
LEIS, JONATHAN P.	MECHANISM OF RNA TUMOR VIRUS REPLICATION	VR	5K04 CA70876-02
MENDELL, LORNE M.	PLASTICITY OF NEURONAL CONNECTIONS IN MAMMALIAN CNS	NSRA	5K04 NS34608-05
RICHARDSON, DAVID C.	X-RAY CRYSTALLOGRAPHY OF SUPEROXIDE DISMUTASES	BBCB	1K04 GM00041-01
ROE, CHARLES R.	STEROID ENZYMES APPLIED TO QUANTITATION AND EVOLUTION	HDPR	5K04 HD47429-05
SCHMIDT-NIELSEN, KNUT	COMP. PHYSIOLOGY OF HEAT, WATER METABOLISM, & EXCRETION	GMK	5K06 GM21522-12
SCOTT, DAVID W.	MANIPULATION OF THE IMMUNE RESPONSE AND TOLERANCE	SSS	1K04 AI00093-01
STARMER, CHARLES F, JR.	COMPUTER RECOGNITION OF PATTERNS IN HEART DISEASE	COM	5K04 HL70102-04
TANFORD, CHARLES	THE STRUCTURE OF PROTEINS	NCR	5K06 GM14222-14
TOURIAN, ARA Y.	MOLECULAR DEVELOPMENT OF PHENYLALANINE HYDROXYLASE	MET	5K04 AM70377-03
ZWEERINK, HENDRIK J.	MORPHOGENESIS OF REOVIRUS AND THE AGENT OF SSPE	SSS	1K04 NS00086-01
<b>WINSTON-SALEM</b>			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—WINSTON-SALEM STATE UNIVERSITY      ZIP CODE 27102</b>			
DODGE, WILLIAM H.	NORMAL AND LEUKEMIC GRANULUPOIESIS	HEM	1K04 CA00091-01
<b>WAKE FOREST UNIVERSITY      ZIP CODE 27109</b>			
MC CALL, CHARLES E.	FUNCTIONAL AND METABOLIC PROPERTIES OF TOXIC NEUTROPHILS	ALY	5K04 AI70767-02
WAITE, MOSELEY	METABOLISM OF LIVER MEMBRANE PHOSPHOLIPIDS	PC	5K04 AM17392-03

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>NORTH DAKOTA</b>			
<b>GRAND FORKS</b>			
<b>UNIVERSITY OF NORTH DAKOTA      ZIP CODE 58201</b>			
STENBERG, VIRGIL I.....	THE SYNTHESIS OF NEW MEDICINALS ALKALOID PHOTOCHEMISTRY.....	GMK	5K04 GM09888-05
<b>OHIO</b>			
<b>CINCINNATI</b>			
<b>UNIVERSITY OF CINCINNATI      ZIP CODE 45221</b>			
ARMENTROUT, RICHARD W.....	SELECTIVE REPLICATION OF PARVOVIRUS IN TUMOR CELLS.....	SSS	1K04 CA00134-01
FREIHOFFER, ARNO F.....	PULMONARY ACADEMIC AWARD.....	PUL	5K07 HL70068-02
FREISHEIM, JAMES H.....	STRUCTURE-FUNCTION STUDIES OF DIHYDROFOLATE REDUCTASE.....	ET	5K04 CA70049-04
KNOWLES, HARVEY C, JR.....	CARBOHYDRATES & MINERAL METABOLISM GENERAL STUDIES.....	NCR	5K06 AM02364-14
<b>CLEVELAND</b>			
<b>CASE WESTERN RESERVE UNIVERSITY      ZIP CODE 44106</b>			
ANTHONY, DONALD D.....	CONTROL OF RNA POLYMERASE DURING CELL TRANSFORMATION.....	GMK	5K04 GM50200-05
BLACKWELL, JOHN.....	STRUCTURE AND INTERACTIONS OF MACROMOLECULES.....	BBCB	5K04 AM70642-03
CAPLAN, ARNOLD I.....	CONTROL OF PHENOTYPIC EXPRESSION IN DEVELOPING CHICK.....	HDPB	5K04 HD35609-05
CULP, LLOYD A.....	SURFACE PROPERTIES OF CANCER AND REVERTANT CELLS.....	MBY	5K04 CA70709-02
FAGAN, JOSEPH F, III.....	INFANTS' RECOGNITION MEMORY FOR VISUAL STIMULI.....	DBR	5K04 HD70144-04
FANGER, MICHAEL W.....	STUDIES OF LYMPHOCYTE TRANSFORMATION.....	ALY	5K04 AI25732-05
GOLDTHWAIT, DAVID A.....	STUDIES ON NUCLEIC ACIDS.....	GMK	5K06 GM21444-12
HARPST, JERRY A.....	STRUCTURE AND FUNCTION OF BIOLOGICAL MACROMOLECULES.....	BBCB	5K03 GM14252-09
HARRIS, JOHN W.....	A STUDY OF NUTRITIONAL AND HEMOLYTIC ANEMIAS.....	NCR	5K06 AM14370-14
HIRSCHMANN, HANS.....	CHEMISTRY AND METABOLISM OF STEROIDS.....	NCR	5K06 AM14367-14
LASEK, RAYMOND J.....	ANALYSIS OF THE NEURONAL GENOME.....	HDGD	5K04 HD28965-05
LINDLEY, BARRY D.....	ELEMENTARY PROCESSES IN EXCITABLE MEMBRANES.....	NSRB	5K04 NS23016-05
MILLER, CHARLES G.....	BIOCHEMICAL AND GENETIC STUDIES OF HYDROLYTIC ENZYMES.....	MBG	5K04 GM70321-04
NIEMOEHNER, DENNIS E.....	STRUCTURE & FUNCTION IN EARLY AIRWAYS OBSTRUCTION.....	PTHA	1K04 HL00102-01
ROBBINS, NORMAN.....	MECHANISM OF NEUROTROPIC EFFECT ON MUSCLE MEMBRANE.....	NSRB	5K04 NS39838-05
STUEHR, JOHN E.....	METAL ION-ENZYME AND POLYPEPTIDE DYNAMICS.....	MCHB	5K04 GM17834-04
ZULL, JAMES E.....	MOLECULAR BIOLOGY OF CELLULAR MEMBRANES.....	AMK	5K04 AM70031-05
<b>COLUMBUS</b>			
<b>OHIO STATE UNIVERSITY      ZIP CODE 43210</b>			
ALTMAN, MICHAEL.....	PULMONARY ACADEMIC AWARD.....	SRC	1K07 HL00128-01
BISHOP, SANFORD P.....	PATHOLOGY OF MYOCARDIAL HYPERTROPHY AND FAILURE.....	CVA	5K04 HL70248-04
COPELAND, JAMES C.....	CHROMOSOME: REGULATION, ORGANIZATION & FUNCTION.....	GEN	5K04 GM70300-03
KLAPPER, MICHAEL H.....	PROTEIN STRUCTURE-FUNCTIONS, PHEROMONES IN LOWER PLANTS.....	BBCB	5K04 GM70711-02
MARZLUF, GEORGE A.....	GENE EXPRESSION AND ENZYME SYNTHESIS IN NEUROSPORA.....	GEN	1K04 GM00052-01
ROYER, GARFIELD P.....	ENZYME IMMOBILIZATION FOR CONFORMATION CHANGE DETECTION.....	PC	1K04 GM00051-01
SCOTT, ROY A, III.....	CONFORMATIONAL STUDY OF POLYPEPTIDES AND NUCLEIC ACID.....	BBCB	5K04 GM70742-02
<b>KENT</b>			
<b>KENT STATE UNIVERSITY      ZIP CODE 44240</b>			
RAWITCH, ALLEN B.....	CONTROL AND BIOSYNTHESIS OF THYROID HORMONES.....	END	5K04 AM70473-03

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>OKLAHOMA</b>			
<b>NORMAN</b>			
UNIVERSITY OF OKLAHOMA ZIP CODE 73069			
FUNG, BING-MAN.....	THE STATE OF WATER IN BIOLOGICAL SYSTEMS.....	BBCB	1K04 AM00058-01
<b>OKLAHOMA CITY</b>			
OKLAHOMA MEDICAL RESEARCH FOUNDATION ZIP CODE 73104			
GRIFFIN, MARTIN J.....	MEMBRANE COMPOSITION & RELATED ENZYMOLOGY IN HELA CELLS.....	ET	5K04 GM18171-05
HARTSUCK, JEAN A.....	STUDY OF ENZYME CRYSTAL STRUCTURES.....	GMK	5K04 GM21736-05
UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER ZIP CODE 73190			
HAMPTON, JAMES W.....	THE RELATIONSHIP OF CLOTTING FACTORS I, VIII AND XIII.....	HTA	5K03 HL14227-10
<b>STILLWATER</b>			
OKLAHOMA STATE UNIVERSITY ZIP CODE 74074			
WESTHAUS, PAUL A.....	EFFECTIVE INTERACTIONS IN MOLECULES AND E & M TRANSITION.....	BBCA	5K04 GM70503-03
<b>OREGON</b>			
<b>CORVALLIS</b>			
OREGON STATE HIGHER EDUCATION SYSTEM—OREGON STATE UNIVERSITY ZIP CODE 97331			
BROWN, LYLE R.....	GENE CONTROL OF MORPHOGENIC PROCESSES.....	GEN	5K04 GM70495-03
SCHAUP, HENRY W.....	MACROMOLECULAR INTERACTIONS WITHIN THE RIBOSOME.....	BBCA	1K04 GM00073-01
<b>EUGENE</b>			
OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON ZIP CODE 97403			
GRIFFITH, O HAYES.....	NOVEL METHODS OF PROBING MEMBRANE ARCHITECTURE.....	BBCB	5K04 CA23359-04
KEANA, JOHN F.....	TTX & BATRACHOTOXIN DERIVATIVES AS NEUROLOGICAL PROBES.....	MCHB	5K04 NS70156-04
MATTHEWS, BRIAN W.....	STRUCTURE AND THERMOSTABILITY OF PROTEINS.....	BBCB	5K04 GM70585-03
POSTLETHWAIT, JOHN H.....	GENETIC/HORMONE CONTROL OF OOGENESIS & MORPHOGENESIS.....	GEN	1K04 GM00119-01
<b>PORTLAND</b>			
OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON HEALTH SCIENCES CENTER ZIP CODE 97201			
BUIST, A SONIA.....	SMOKING AND CHRONIC AIRWAYS OBSTRUCTION.....	CVA	1K04 HL00115-01
FAUST, CHARLES H, JR.....	GENE EXPRESSION IN NORMAL AND MALIGNANT ANIMAL CELLS.....	GEN	1K04 CA00117-01
GREER, MONTE A.....	NEUROENDOCRINOLOGY & THYROID PHYSIOLOGY.....	NCR	5K06 AM02122-14
TALBOTT, RICHARD E.....	NEURAL MECHANISMS OF POSTURAL CONTROL.....	NSRB	5K04 NS70021-04
WEITLAUF, HARRY M.....	METABOLIC CHANGES IN THE PREIMPLANTATION EMBRYO.....	REB	1K04 HD00020-01
WELEBER, RICHARD G.....	LINKAGE STUDIES IN OCULAR DISEASE.....	VSN	1K07 EY00022-01
WUEPPER, KIRK D.....	BIOLOGY AND BIOCHEMISTRY OF THE KININ-FORMING SYSTEM.....	AMK	5K04 AM40086-06
<b>PENNSYLVANIA</b>			
<b>HERSHEY</b>			
PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER ZIP CODE 17033			
BARTLETT, GERALD L.....	ANTIGENIC STRENGTH OF NONVIRAL TUMORS.....	PTHB	5K04 CA70948-02
PIERCE, WILLIAM S.....	STUDY OF MECHANICAL CIRCULATORY SUPPORT.....	SCYB	5K04 HL46573-04



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>PENNSYLVANIA—Continued</b>			
<b>PHILADELPHIA</b>			
<b>CHILDREN'S HOSPITAL OF PHILADELPHIA</b>	<b>ZIP CODE 19104</b>		
COHN, ROBERT M.	METABOLIC DERANGEMENTS FROM GALACTOSE TOXICITY	MET	1K04 HD00008-01
GOLDMAN, ALLEN S.	STUDY OF CONGENITAL ADRENAL HYPERPLASIA	HDPB	5K03 HD13628-09
HOLTZAPPE, PHILIP G.	NEONATAL ASPECTS OF DIGESTION AND ABSORPTION OF FAT	HDGD	5K04 HD70026-05
PARKS, JOHN S.	HORMONAL INTERACTIONS WITH CULTURED HUMAN LYMPHOCYTES	END	1K04 AM00005-01
<b>HAHNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA</b>	<b>ZIP CODE 19102</b>		
HOLSCLAW, DOUGLAS S.	PULMONARY ACADEMIC AWARD	PUL	5K07 HL70832-02
KALIA, MADHU	CENTRAL MECHANISMS IN PULMONARY REFLEXES	CVA	1K04 HL00103-01
<b>MEDICAL COLLEGE OF PENNSYLVANIA</b>	<b>ZIP CODE 19129</b>		
LEVINE, RHEA J.	STUDY OF LIMULUS MUSCLE	MBY	5K04 NS70476-02
<b>PHILADELPHIA GENERAL HOSPITAL</b>	<b>ZIP CODE 19104</b>		
CLARK, CHARLES C.	STRUCTURE AND BIOSYNTHESIS OF CONNECTIVE TISSUE	PC	1K04 AM00063-01
<b>TEMPLE UNIVERSITY</b>	<b>ZIP CODE 19122</b>		
ERNST, STEPHEN A.	CYTOCHEMICAL LOCALIZATION OF TRANSPORT ATPASE	PHY	1K04 GM00072-01
HIGGINS, MICHAEL L.	CELL DIVISION AND SURFACE GROWTH IN A 'MODEL' SYSTEM	MCB	5K04 GM70251-04
MILLER, RICHARD L.	CHEMOTAXIS OF SPERM PRIOR TO FERTILIZATION	CBY	5K04 HD19931-04
PIERINGER, RONALD A.	METABOLISM AND CONTROL OF BRAIN GALACTOSYL DIGLYCERIDES	NSRB	5K04 NS12776-05
TRUEX, RAYMOND C.	COMPARATIVE CARDIOLOGY	NCR	5K06 GM14092-14
WALSH, PETER N.	PLATELETS IN COAGULATION, HEMOSTASIS, AND THROMBOSIS	HEM	5K04 HL70545-03
<b>THOMAS JEFFERSON UNIVERSITY</b>	<b>ZIP CODE 19107</b>		
ATKINSON, G WILLIAM	PULMONARY ACADEMIC AWARD	SRC	5K07 HL47406-04
BULOVA, STEPHEN I.	CONTROL OF PROTEIN SYNTHESIS IN LYMPHOCYTES	HEM	5K04 AM70428-03
D'ANGELO, SAVINO A.	HYPOTHALAMIC-PITUITARY-THYROID GLAND INTERACTION	NCR	5K06 NS18536-14
LIBERTI, PAUL A.	PHYSICAL BIOCHEMISTRY OF ANTIGEN-ANTIBODY INTERACTIONS	SSS	5K04 AI70731-02
WESSON, LAURENCE G.	RENAL RESEARCH	NCR	5K06 HL15447-14
<b>UNIVERSITY OF PENNSYLVANIA</b>	<b>ZIP CODE 19174</b>		
BLASIE, J KENT	STRUCTURE AND FUNCTION OF BIOLOGICAL MEMBRANES	GMK	5K04 GM29823-04
BRACKETT, BENJAMIN G.	IN VITRO FERTILIZATION OF PRIMATE OVA	HDPR	5K04 HD15861-05
BRIGHTON, CARL T.	EPIPHYSEAL PLATE GROWTH	HDGD	5K04 HD35340-05
CAPUZZI, DAVID M.	LIPID AND LIPOPROTEIN METABOLISM IN LIVER CELLS	MET	1K04 HL00089-01
COHEN, SIDNEY	NEUROHUMORAL CONTROL OF GASTROINTESTINAL MOTILITY	GMA	5K04 AM70576-03
COOPER, RICHARD A.	THE ROLE OF MEMBRANE LIPIDS IN RED CELL PHYSIOLOGY	AMK	5K04 AM38345-05
DELIVORIA-PAPADOPOULOS, M.	PLACENTAL EXCHANGE OF GASES AND DIVALENT CATIONS	HDPB	5K04 HD47471-05
DONAWICK, WILLIAM J.	HEART TRANSPLANTATION & ANTILYMPHOCYTIC SERUM TREATMENT	SGYA	5K04 HL70589-03
DROTT, HENRY R.	OPTICAL AND MAGNETIC STUDIES OF OXIDOREDUCTASES	BBCB	5K04 GM70470-04
DUTTON, P LESLIE	MEMBRANE BIOENERGETICS BY SPECTROPHOTOMETRY	BBCB	5K04 GM70771-02
EISENBERG, ROSELYN J.	GROWTH AND METABOLISM OF THE ORAL LACTIC ACID BACTERIA	DEN	5K04 DE70160-04
EPPLE, GISELA M.	PEROMONES IN PRIMATE REPRODUCTION AND SOCIAL BEHAVIOR	REB	5K04 HD70575-02
HENLE, WERNER	ANTIGENIC STRUCTURE HOST-VIRUS INTERACTIONS	NCR	5K06 AI22683-12
KALLEN, ROLAND G.	CHARACTERIZATION OF CATALYSIS AND CANCER	BIO	5K04 CA70487-04
KARUSH, FRED	IMMUNOLOGY AND IMMUNOCHEMISTRY	NCR	5K06 AI14012-14
KAYNE, FREDRICK J.	MONOVALENT CATION CONTROL OF CELLULAR REACTIONS	BBCB	5K04 GM70249-04
LEBOY, PHOEBE S.	EFFECT OF ALTERATIONS IN RNA METHYLASE ACTIVITY	MCB	5K04 GM09805-05
LEIGH, JOHN S, JR	KINETICS AND STRUCTURE IN BIOLOGICAL MEMBRANES	BBCB	1K04 GM00142-01
LIEBMAN, PAUL A.	MICROPHOTOMETRY OF RETINAL RODS AND CONES	VSN	5K04 EY09856-05
LISAK, ROBERT P.	IMMUNOLOGIC STUDIES OF NERVOUS SYSTEMS DISEASE	NSRA	5K07 NS11061-04
MARSHALL, BRYAN E.	PULMONARY ABNORMALITIES IN ANESTHESIA AND TRAUMA	PUL	5K04 HL49965-04
MELA, LEENA M.	SHOCK-INDUCED METABOLIC CHANGES AT SUBCELLULAR LEVEL	GMK	5K04 GM50318-05
NILSSON, ULF R.	STRUCTURE AND FUNCTION OF HUMAN C5	ALY	5K04 AI50198-04
REED, GEORGE H.	STRUCTURE AND DYNAMICS OF ENZYMES BY EPR AND NMR	BBCB	5K04 AM70134-04
REIVICH, MARTIN	CONTROL OF CEREBRAL CIRCULATION AND METABOLISM	HTA	3K03 HL11896-09S1

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>PENNSYLVANIA—Continued</b>			
REIVICH, MARTIN	CONTROL OF CEREBRAL CIRCULATION AND METABOLISM	HTA	5K03 HL11896-10
SELZER, MICHAEL E.	SYNAPTIC TRANSMISSION IN LAMPREY CNS	NSPB	1K07 NS11083-01
VANDERKOOI, JANE M.	LATERAL DIFFUSION IN MEMBRANES	BBCB	1K04 GM00053-01
<b>WILLS EYE HOSPITAL ZIP CODE 19130</b>			
FELBERG, NORMAN T.	IMMUNOLOGIC INVESTIGATION OF OCULAR MALIGNANCIES	VSN	1K07 EY00032-01
<b>WISTAR INSTITUTE OF ANATOMY AND BIOLOGY ZIP CODE 19104</b>			
BORUN, THADDEUS W.	HISTONE M-RNA TRANSCRIPTION/TRANSITION MECHANISM CONTROL	MBY	1K04 CA00088-01
CROCE, CARLO M.	GENETICS OF CELL TRANSFORMATION	GEN	1K04 CA00143-01
KNOWLES, BARBARA B.	IMMUNOMANIPULATION OF SOMATIC CELL HYBRIDS	ALY	1K04 AI00053-01
KRITCHEVSKY, DAVID	CHOLESTEROL METABOLISM	HTA	5K06 HL00734-14
<b>PITTSBURGH</b>			
<b>CARNEGIE-MELLON UNIVERSITY ZIP CODE 15213</b>			
CUSSLER, EDWARD L, JR.	RATES OF GALLSTONE FORMATION	BBCB	5K04 AM70461-03
EVANS, D FENNELL	PROPERTIES OF BILE AND RELATIONSHIP TO GALLSTONE	GMA	5K04 AM12972-05
JONES, ELIZABETH W.	REGULATION IN YEAST -THFA METABOLISM AND PROTEASES	GEN	1K04 AM00056-01
<b>UNIVERSITY OF PITTSBURGH ZIP CODE 15260</b>			
BLAINE, EDWARD H.	RELATION OF RENAL ENDOCRINE FUNCTION TO HYPERTENSION	CVB	1K04 HL00003-01
CHAY, TERESA R.	STATISTICAL MECHANICS APPLIED TO BIOPOLYMERS	BBCB	5K04 GM70115-04
COOPER, TERRANCE G.	SYNTHESIS AND ASSEMBLY OF ENZYMES IN EUKARYOTES	BIO	1K04 GM00091-01
CYPRESS, RAYMOND H.	PARASITIC DISEASES AS A MODEL FOR IMMUNE RESPONSES	TMP	1K04 AI00056-01
DE GROAT, WILLIAM C.	AUTONOMIC CONTROL OF URINARY BLADDER AND LARGE BOWEL	NSRB	5K04 NS13854-04
FEINGOLD, DAVID S.	CARBOHYDRATE METABOLISM OF MICROORGANISMS	GMK	5K03 GM28296-10
GAY, VERNON L.	NEUROENDOCRINE REGULATION OF GONADOTROPIN SECRETION	REB	5K04 HD35032-04
GLEW, ROBERT H.	METABOLISM OF MAMMALIAN GLYCOPROTEINS AND GLYCOLIPIDS	PC	1K04 AM00036-01
HENDRIX, ROGER W.	ASSEMBLY AND STRUCTURE OF BACTERIOPHAGE LAMBDA HEADS	PC	1K04 AI00023-01
KENNY, JEAN F.	MECHANISMS OF SEX DIFFERENCES IN IMMUNITY	IMB	5K04 HD70336-04
ROBINSON, ALAN G.	PHYSIOLOGY OF NEUROPHYSIN SECRETION	END	1K04 AM00093-01
VAUGHAN, MAURICE H, JR.	REGULATION OF GENE EXPRESSION IN CULTURED HUMAN CELLS	MBY	5K04 GM16281-05
<b>UNIVERSITY PARK</b>			
<b>PENNSYLVANIA STATE UNIVERSITY ZIP CODE 16802</b>			
KEITH, ALEC D.	BIOLOGICAL MEMBRANES: SPIN LABELS AND LIPID MUTANTS	BBCB	5K04 GM70593-03
PHILLIPS, ALLEN T.	BIOSYNTHESIS OF KETO ACID COENZYMES	PC	5K04 AM70390-03
PHILLIPS, WINFRED M.	RHEOLOGY OF BIOLOGICAL FLUIDS, BLOOD FLOW	SGYB	1K04 HL00085-01
<b>RHODE ISLAND</b>			
<b>PROVIDENCE</b>			
<b>BROWN UNIVERSITY ZIP CODE 02912</b>			
BUTCHER, FRED R.	CYCLIC NUCLEOTIDES IN PAROTID GLAND METABOLISM	PHRA	1K04 AM00032-01
CSERR, HELEN F.	PHYLOGENY AND ONTOGENY OF BRAIN-BARRIER SYSTEMS	PHY	5K04 NS70500-03
DAHLBERG, ALBERT E.	RIBOSOME STRUCTURE AND FUNCTION	PC	1K04 GM00044-01
GERBI, SUSAN A.	FINE STRUCTURE OF RNA	CBY	1K04 GM00036-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>SOUTH CAROLINA</b>			
<b>CHARLESTON</b>			
<b>MEDICAL UNIVERSITY OF SOUTH CAROLINA      ZIP CODE 29401</b>			
KARAM, JIM D.....	DNA REPLICATION AND REPAIR OF T4 PHAGE.....	MBC	5K04 GM70725-02
WISE, WILLIAM C.....	AMINO ACID TRANSPORT IN NORMAL AND NEOPLASTIC CELLS.....	PHY	5K04 CA70412-02
YOUNG, FRANKLIN A, JR.....	BIOCOMPATIBLE MATERIALS FOR DENTAL SURGERY.....	DEN	5K04 DE70205-04
<b>SOUTH DAKOTA</b>			
<b>VERMILLION</b>			
<b>UNIVERSITY OF SOUTH DAKOTA      ZIP CODE 57069</b>			
ADAMS, JAMES N.....	MECHANISMS OF INHERITANCE IN NOCARDIAE.....	GMK	5K03 GM17214-10
<b>TENNESSEE</b>			
<b>KNOXVILLE</b>			
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE AT KNOXVILLE      ZIP CODE 37916</b>			
BECKER, JEFFREY M.....	PEPTIDE TRANSPORT IN YEAST AND TISSUE CULTURE.....	MBC	1K04 GM00094-01
CHERNOFF, AMOZ I.....	HEMOGLOBINS, HEMOLYTIC ANEMIAS, AND PROTEIN STRUCTURE.....	NCR	5K06 GM03750-14
RIGGSBY, WILLIAM S.....	NUCLEOTIDE SEQUENCE SPECTRA IN NEOPLASTIC TISSUES.....	PC	5K04 CA10692-04
<b>MEMPHIS</b>			
<b>ST. JUDE CHILDREN'S RESEARCH HOSPITAL      ZIP CODE 38101</b>			
CHEUNG, WAI Y.....	CYCIC AMP AND ENERGY METABOLISM OF CNS.....	NSRB	5K04 NS42576-05
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES      ZIP CODE 38163</b>			
BRODY, DANIEL A.....	GENERATOR PROPERTIES OF ISOLATED MAMMALIAN HEARTS.....	NCR	5K06 HL14032-14
BURGHEN, GEORGE A.....	STUDY OF INSULIN AND PROINSULIN IN JUVENILE DIABETES.....	MET	5K04 HD70462-02
LONGO, FRANK J.....	CYTOLOGICAL STUDIES OF FERTILIZATION.....	CBY	5K04 HD36162-04
MARIENCHECK, WILLIAM I.....	PULMONARY ACADEMIC AWARD.....	PUL	5K07 HL70367-04
STRUVE, WILLIAM G.....	CHOLINESTERASE IN NERVE MEMBRANES.....	NSRB	5K04 NS23604-05
VAN MIDDLESWORTH, LESTER V.....	IODINE METABOLISM AND THE BASIC CAUSE OF GOITER.....	NCR	5K06 AM00040-14
<b>NASHVILLE</b>			
<b>MEHARRY MEDICAL COLLEGE      ZIP CODE 37208</b>			
HOLLETT, CHARLOTTE R.....	NATURALLY OCCURRING ANTILIPOLYTIC SUBSTANCES.....	HTA	5K03 HL25392-10
RUSSELL, JAMES D.....	KELOIDS: AN IN VITRO MODEL OF TUMOR GROWTH REGULATION.....	PTHA	1K04 CA00122-01
<b>VANDERBILT UNIVERSITY      ZIP CODE 37240</b>			
FREEMAN, JOHN A.....	OPTIC TECTUM: A COMBINED STRUCTURAL & FUNCTIONAL STUDY.....	VIS	5K04 EY70240-04
MANN, GEORGE V.....	MECHANISM OF ATHEROGENESIS.....	NCR	5K06 HL08288-14
MITCHELL, WILLIAM M.....	STUDIES ON PROTEIN CONFORMATION & ITS PATHOCHEMISTRY.....	AMK	5K04 AM34798-04
PUETT, J DAVID.....	GONADOTROPINS: STRUCTURE, METABOLISM, AND MECHANISMS.....	PC	1K04 AM00055-01
ROELOFS, ROBERT I.....	A STUDY OF HUMAN SKELETAL MUSCLE IN TISSUE CULTURE.....	MBY	5K04 NS70793-02
SNELL, JAMES D, JR.....	PULMONARY ACADEMIC AWARD.....	PUL	5K07 HL11321-05
WATSON, JACK T.....	ANALYTICAL TECHNIQUES FOR INFLAMMATION-DRUG INTERACTION.....	MCHB	3K04 GM50290-02S1
WATSON, JACK T.....	ANALYTICAL TECHNIQUES FOR INFLAMMATION-DRUG INTERACTION.....	MCHB	5K04 GM50290-03
WILCOX, HENRY G.....	REGULATION OF HEPATIC LIPOPROTEIN METABOLISM.....	MET	3K04 HL70329-03S1
WILCOX, HENRY G.....	REGULATION OF HEPATIC LIPOPROTEIN METABOLISM.....	MET	5K04 HL70329-04
WILSON, JOHN T.....	PEDIATRICS PHARMACOLOGY.....	PHRA	5K04 HD42539-05



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>TEXAS</b>			
<b>AUSTIN</b>			
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN		ZIP CODE 78712	
BIESELE, JOHN J.....	CHROMOSOMES AND MITOSIS IN HEALTH AND DISEASE.....	NCR	5K06 CA18366-13
BITTNER, GEORGE D.....	REGENERATION IN INVERTEBRATE NERVOUS SYSTEMS.....	NEUA	1K04 NS00070-01
GIBSON, DAVID T.....	MECHANISMS OF ENZYMATIC OXYGEN FIXATION.....	MBC	5K04 ES70088-04
MAGUIRE, MARJORIE P.....	STUDIES ON CHROMOSOME MECHANISMS.....	GMK	5K03 GM25988-10
MANDY, WILLIAM J.....	IMMUNOCHEMICAL PROPERTIES OF A NEW SERUM FACTOR.....	GMK	5K03 GM21252-09
MYERS, JACK E.....	PHYSIOLOGY AND BIOCHEMISTRY OF ALGAE.....	NCR	5K06 GM18373-13
RICHARDSON, RICHARD H.....	EFFECTS OF POPULATION STRUCTURE ON GENETIC VARIATION.....	GMK	5K04 GM47350-05
WAGNER, ROBERT P.....	GENETIC CONTROL OF CELL ORGANIZATION.....	NCR	5K06 GM18383-13
WALKER, JAMES R.....	REGULATION OF BACTERIAL CELL DIVISION.....	MBC	5K04 GM29413-05
ZIEGLER, DANIEL M.....	STUDIES ON MICROSOMAL OXIDASES.....	GMK	5K03 GM25990-10
<b>COLLEGE STATION</b>			
TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY		ZIP CODE 77843	
FENDLER, ELEANOR J.....	MICELLAR SYSTEMS AS MODELS FOR ENZYMATIC INTERACTIONS.....	GMK	5K04 GM50331-05
MATIS, JAMES H.....	STOCH COMP ANAL: MODELLING, ESTIMATION, APPLICATION.....	COM	1K04 GM00033-01
REISER, RAYMOND.....	LIPID ABSORPTION TRANSPORT AND STRUCTURE.....	NCR	3K06 GM19318-12S1
REISER, RAYMOND.....	LIPID ABSORPTION TRANSPORT AND STRUCTURE.....	NCR	5K06 AM19318-13
<b>DALLAS</b>			
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS		ZIP CODE 75235	
HERSH, LOUIS B.....	STUDY OF ONE-CARBON METABOLISM IN PSEUDOMONAS.....	MBC	5K04 GM70239-03
HOLMES, RANDALL K.....	CONTROL OF BACTERIAL TOXINS BY VIRUSES AND PLASMIDS.....	MBC	1K04 AI00051-01
JASIN, HUGO E.....	CHRONIC INFLAMMATION PRODUCED BY IMMUNE COMPLEXES.....	IMB	5K04 AM70297-03
MC GARRY, J DENIS.....	REGULATION AND TREATMENT OF DIABETIC KETOACIDOSIS.....	MET	5K04 AM70763-02
PETERSON, JULIAN A.....	CONTROL OF BIOLOGICAL HYDROXYLATION REACTIONS.....	BIO	5K04 GM30962-03
TAUROG, ALVIN M.....	BIOSYNTHESIS AND MECHANISM OF ACTION OF THYROXINE.....	NCR	5K06 AM15276-13
WILDENTHAL, C KERN.....	STUDIES OF FETAL MOUSE HEARTS IN ORGAN CULTURE.....	CVA	5K04 HL70125-04
ZIFF, MORRIS.....	CLINICAL AND BASIC IMMUNOLOGY.....	NCR	5K06 AM14155-14
<b>DENTON</b>			
NORTH TEXAS STATE UNIVERSITY		ZIP CODE 76203	
GRACY, ROBERT W.....	THE MOLECULAR BASIS OF ISOMERASE DEFICIENCY DISEASES.....	BIO	5K04 AM70198-03
<b>GALVESTON</b>			
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON		ZIP CODE 77558	
BLANKENSHIP, JAMES E.....	INTEGRATIVE MECHANISMS IN APLYSIA.....	NEUB	5K04 NS70613-03
GRANT, J ANDREW.....	COMPLEMENT-INDUCED RELEASE OF INFLAMMATORY MEDIATORS.....	AIRC	1K07 AI00110-01
REMMERS, JOHN E.....	PULMONARY ACADEMIC AWARD.....	SRC	1K07 HL00131-01
<b>HOUSTON</b>			
BAYLOR COLLEGE OF MEDICINE		ZIP CODE 77025	
AUNE, KIRK C.....	INTERPRETATIONS OF MACROMOLECULAR INTERACTIONS.....	BBCA	1K04 GM00071-01
BARNES, EUGENE M, JR.....	MECHANISMS OF TRANSPORT IN MEMBRANE VESICLES.....	MET	1K04 AM00052-01
GODWIN, HERMAN A, JR.....	DIGESTION, ABSORPTION, & METABOLISM OF CONJUGATED FOLATE.....	GMA	1K04 AM00086-01
KIT, SAUL.....	BIOCHEMICAL ASPECTS OF VIROLOGY.....	NCR	5K06 AI02352-13
MARTIN, RUSSELL R.....	LEUKOCYTES AND MACROPHAGES IN HOST DEFENSE.....	AIRC	5K04 AI70335-02
MEANS, ANTHONY R.....	REPRODUCTIVE TISSUE: HORMONES AND DEVELOPMENT.....	REB	5K04 HD30939-03
MOSES, ROBB E.....	THE ENZYMATIC MECHANISMS OF DNA SYNTHESIS.....	BIO	5K04 GM70314-04
RICH, ROBERT R.....	REGULATORY FUNCTIONS OF ACTIVATED T LYMPHOCYTES.....	IMB	1K04 AI00006-01
STEVENS, PAUL M.....	PULMONARY ACADEMIC AWARD.....	SRC	5K07 HL70078-05

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>TEXAS—Continued</b>			
TRENTIN, JOHN J.....	TISSUE TRANSPLANTATION, RADIOBIOLOGY, AND CANCER BIOLOGY.....	NCR	5K06 CA14219-14
WILSON, JOHN H.....	ONCOGENIC MECHANISMS: SV40 AND HOST GENETIC ANALYSIS.....	SSS	1K04 CA00058-01
<b>RICE UNIVERSITY      ZIP CODE 77001</b>			
STEWART, CHARLES R.....	CONTROL MECHANISMS IN PHAGE INFECTION.....	GMK	3K04 GM70044-04S1
STEWART, CHARLES R.....	CONTROL MECHANISMS IN PHAGE INFECTION.....	GMK	5K04 GM70044-05
<b>TEXAS DEPARTMENT OF MENTAL HEALTH AND MENTAL RETARDATION—TEXAS RESEARCH INST OF MENTAL SCIENCES      ZIP CODE 77025</b>			
JOHNSON, ROBERT J.....	AMINO ACID & DIPEPTIDE METABOLISM IN MENTAL RETARDATION.....	HDMR	5K04 HD17459-05
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON      ZIP CODE 77025</b>			
CASTRO, GILBERT A.....	IMMUNOLOGY & PATHOPHYSIOLOGY OF INTESTINAL PARASITISM.....	TMP	1K04 AI00087-01
JOHNSON, LEONARD R.....	EFFECT OF G I HORMONES ON GASTRIC AND DUODENAL MUCOSA.....	GMA	5K04 AM28972-03
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER      ZIP CODE 77025</b>			
ANDERSON, JAMES H.....	NEW AND IMPROVED TECHNIQUES OF INTERVENTION RADIOLOGY.....	RAD	1K04 CA00083-01
GUTTERMAN, JORDAN U.....	TUMOR IMMUNITY AND IMMUNOTHERAPY OF HUMAN CANCER.....	ET	5K04 CA71007-02
MAVLIGIT, GIORA M.....	IMMUNOLOGICAL APPROACHES TO CANCER THERAPY.....	SSS	1K04 CA00130-01
MURGOLA, EMANUEL J.....	MISSENSE SUPPRESSION AND MUTATIONALLY ALTERED TRNAS.....	MBC	1K04 GM00047-01
SUTOW, WATARU W.....	CHEMOTHERAPY IN MALIGNANT DISEASES IN CHILDREN.....	NCR	5K06 CA02501-13
<b>RICHARDSON</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT DALLAS      ZIP CODE 75080</b>			
LANG, DIMITRIJ.....	QUANTITATIVE MORPHOLOGY OF NUCLEIC ACIDS.....	GMK	5K03 GM34964-09
<b>SAN ANTONIO</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO      ZIP CODE 78204</b>			
LEVINSON, CHARLES.....	PHOSPHATE TRANSPORT AND METABOLISM IN CARCINOMA CELLS.....	PHY	5K04 CA70489-03
PAUERSTEIN, CARL J.....	MECHANISMS REGULATING TUBAL TRANSPORT OF OVA.....	HDPR	5K04 HD47279-05
REITER, RUSSEL J.....	PINEAL-ENDOCRINE RELATIONSHIPS.....	REB	5K04 HD42398-06
<b>UTAH</b>			
<b>SALT LAKE CITY</b>			
<b>LATTER-DAY SAINTS HOSPITAL SYSTEM—LATTER-DAY SAINTS HOSPITAL      ZIP CODE 84143</b>			
WARNER, HOMER R.....	MATHEMATICAL ANALYSIS OF THE CIRCULATION.....	NCR	5K06 HL18344-14
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH      ZIP CODE 84112</b>			
EHRENFELD, ELVERA R.....	VIRUS-HOST CELL INTERACTIONS.....	VR	7K04 AI00096-01
GRAY, WILLIAM R.....	STRUCTURE-FUNCTION RELATIONS IN ARTERIAL ELASTIN.....	BBCB	5K04 GM70647-03
HUANG, WAI M.....	STUDIES ON T4 DNA REPLICATION.....	SSS	1K04 GM00148-01
MARCUS, STANLEY.....	RESISTANCE TO INFECTIOUS AND NEOPLASTIC DISEASE.....	NCR	5K06 AI14924-14
MILLAR, CONNIE K.....	NEURAL EFFECTS OF HEART ELECTROPHYSIOLOGY & HEMODYNAMICS.....	CVA	5K04 HL70644-03
PARMA, DAVID H.....	GENETICS OF CHROMOSOMAL ABERRATIONS IN PHAGE T4D.....	GEN	1K04 AI00024-01
POULTER, CHARLES D.....	SUBSTRATE ANALOGS FOR TERPENE CONDENSATION REACTIONS.....	MCHA	1K04 HL00084-01
TYLER, FRANK H.....	MUSCLE, STEROID, AND CARBOHYDRATE METABOLISM.....	NCR	5K06 AM14913-14
WOLSTENHOLME, DAVID R.....	STRUCTURE OF MITOCHONDRIAL AND KINETOPLAST DNA.....	MBY	5K04 GM70104-04
WOODBURY, DIXON M.....	PHARMACOLOGY AND CELLULAR BIOCHEMISTRY OF THE CNS.....	NCR	5K06 NS13838-14

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>VERMONT</b>			
<b>BURLINGTON</b>			
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE		ZIP CODE 05401	
KRAWITT, EDWARD L.....	ACADEMIC CAREER DEVELOPMENT AWARD IN DIGESTIVE DISEASES.....	GIN	5K07 AM35234-04
LEPESCHKIN, EUGENE.....	BASIC PROBLEMS IN CARDIAC ELECTROPHYSIOLOGY.....	NCR	5K06 HL00440-14
SCHUMACHER, GEORGE A.....	INVESTIGATIONS IN THE NEUROSCIENCES.....	NCR	5K06 NS17045-14
STRAUSS, MICHAEL J.....	SYNTHESIS OF NEW PHARMACEUTICALS.....	MCHA	5K04 GM70714-02
<b>VIRGINIA</b>			
<b>BLACKSBURG</b>			
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY		ZIP CODE 24061	
CAMPBELL, T COLIN.....	SUBCELLULAR EFFECTS OF ENVIRONMENT AND AFLATOXIN.....	TOX	5K04 ES70231-02
<b>CHARLOTTESVILLE</b>			
UNIVERSITY OF VIRGINIA		ZIP CODE 22903	
BASS, NORMAN H.....	MICROCHEMICAL PATHOLOGY OF CEREBRAL CORTEX MATURATION.....	NSRA	5K04 NS28155-05
BAUERLE, RONALD H.....	GENE EXPRESSION AND MACROMOLECULAR REGULATION.....	GMK	5K04 GM12321-07
BENJAMIN, DAVID C.....	CELLULAR AND STRUCTURAL BASIS OF IMMUNOLOGIC TOLERANCE.....	ALY	1K04 AI00029-01
BENZINGER, ROLF H.....	TRANSFECTION OF E. COLI AND ITS APPLICATIONS.....	GEN	3K04 GM50284-04S1
BENZINGER, ROLF H.....	TRANSFECTION OF E. COLI AND ITS APPLICATIONS.....	GEN	5K04 GM50284-05
BROOKER, GARY.....	METABOLIC AND HORMONAL CONTROL OF CARDIAC CONTRACTION.....	PHRA	1K04 HL00098-01
DAMMANN, JOHN F.....	CARDIOPULMONARY PHYSIOLOGY IN CRITICALLY ILL PATIENTS.....	NCR	5K06 HL14213-14
DANIELSON, DONALD A.....	MATHEMATICAL MODELS FOR PROBLEMS IN PHYSIOLOGY.....	COM	5K04 GM70733-02
DUNN, JOHN T.....	THYROGLOBULIN IN THYROID DISEASE.....	AMK	5K04 AM14846-05
EBBESSON, SVEN O.....	ORGANIZATION OF THE VERTEBRATE VISUAL SYSTEM.....	NSRA	5K04 NS46292-05
EMERSON, SUZANNE U.....	FUNCTIONS AND BIOCHEMISTRY OF RHABDOVIRUS PROTEINS.....	VR	1K04 AI00013-01
GEAR, ADRIAN R.....	ROLE OF MITOCHONDRIA IN PLATELET SURVIVAL AND FUNCTION.....	HEM	5K04 HL70759-02
GILMAN, ALFRED G.....	REGULATION OF CYCLIC AMP IN CULTURED CELLS.....	PHRA	1K04 NS00026-01
KADNER, ROBERT J.....	GENETIC CONTROL OF MEMBRANE TRANSPORT IN E. COLI.....	MBG	1K04 GM00019-01
KRETSINGER, ROBERT H.....	STRUCTURE OF CARP-MUSCLE CALCIUM-BINDING PROTEIN.....	BBCB	5K04 GM70480-03
KUTCHAI, HOWARD C.....	RED CELL O <sub>2</sub> TRANSPORT AND TRANSPORT SYSTEMS IN HEART.....	PHY	1K04 HL00014-01
LONGNECKER, DAVID E.....	ANESTHETICS AND MICROVASCULAR RESPONSE TO HEMORRHAGE.....	SGVA	1K04 HL00037-01
MANDELL, GERALD L.....	LEUKOCYTE BACTERICIDAL MECHANISMS IN HEALTH AND DISEASE.....	BM	5K04 GM49520-05
MURAD, FERID.....	REGULATION OF CYCLIC NUCLEOTIDE METABOLISM AND ACTION.....	PHRA	5K04 AM70456-03
MURPHY, RICHARD A.....	CONTRACTILE PROTEINS OF THE CARDIOVASCULAR SYSTEM.....	PHY	5K04 HL11747-05
PEACH, MICHAEL J.....	STRUCTURE-ACTIVITY RELATIONSHIP STUDY OF ANGIOTENSIN.....	GMB	5K04 HL50283-05
SHERMAN, S MURRAY.....	MAMMALIAN VISUAL DEVELOPMENT AND AMBLYOPIA.....	NEUA	1K04 EY00020-01
STEINBERG, WILLIAM.....	AMINOACYL-TRNA SYNTHETASES AND SPORE DEVELOPMENT.....	MBG	5K04 GM70273-04
TAYLOR, RONALD P.....	QUANTITATIVE STUDIES OF BIOLOGICAL RECOGNITION.....	ALY	1K04 AI00062-01
<b>NORFOLK</b>			
EASTERN VIRGINIA MEDICAL AUTHORITY—EASTERN VIRGINIA MEDICAL SCHOOL		ZIP CODE 23507	
WRIGHT, GEORGE L, JR.....	ISOLATION OF TUMOR ANTIGENS.....	IMB	1K04 CA00012-01
<b>RICHMOND</b>			
VIRGINIA COMMONWEALTH UNIVERSITY		ZIP CODE 23284	
GUZELIAN, PHILIP S, JR.....	REGULATION OF MICROSOMAL HEMOPROTEINS IN THE LIVER.....	GMA	1K08 AM00128-01
HUF, ERNST G.....	ACTIVE ION TRANSPORT IN FROG SKIN.....	GMK	5K06 GM16687-13
LIBERTI, JOSEPH P.....	BIOCHEMISTRY OF SOMATOMEDIN.....	PC	1K04 AM00125-01
MORAHAN, PAGE S.....	VIRAL DISEASE—IMMUNITY AND RESISTANCE INDUCING AGENTS.....	AIRC	5K04 AI70863-02
PATTERSON, JOHN L, JR.....	NORMAL & PATHOPHYSIOLOGY OF CIRCULATION & RESPIRATION.....	NCR	5K06 HL18678-14



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>VIRGINIA—Continued</b>			
PRICE, STEVEN.....	MOLECULAR MECHANISMS OF GLUCORECEPTOR STIMULATION.....	CMS	5K04 DE12433-04
SCOTT, ROBERT B.....	DIFFERENTIATION AND FUNCTION OF HEMATOPOIETIC CELLS.....	HEM	5K04 GM19641-05
TEW, JOHN G.....	REGULATION OF THE IMMUNE RESPONSE BY PERSISTING ANTIGEN.....	IMB	1K04 AI00008-01
<b>WASHINGTON</b>			
<b>PULLMAN</b>			
<b>WASHINGTON STATE UNIVERSITY      ZIP CODE 99163</b>			
KRAKAUER, HENRY.....	THERMODYNAMIC FACTORS IN THE CONTROL OF NA FUNCTION.....	BBCA	5K04 GM70441-03
<b>SEATTLE</b>			
<b>UNIVERSITY OF WASHINGTON      ZIP CODE 98195</b>			
ADAMSON, JOHN W.....	ERYTHROPOIETIN: IN VITRO AND IN VIVO STUDIES IN MAN.....	HEM	5K04 AM70222-04
ANDERSEN, NIELS H.....	THE MOLECULAR BASIS OF PROSTAGLANDIN BIOCHEMISTRY.....	MCHB	1K04 GM00134-01
BAYLINK, DAVID J.....	BONE RESORPTION IN OSTEOPOROSIS AND PERIODONTAL DISEASE.....	GMB	5K04 DE19108-04
BYERS, BRECK E.....	STRUCTURAL ANALYSIS OF CRYSTALLINE RIBOSOMES.....	GMK	5K04 GM20790-05
CAMERMAN, ARTHUR.....	STEREOCHEMICAL BASIS OF DRUG AND HORMONE ACTION.....	BBCA	5K04 NS70801-02
COHEN, MICHAEL M, JR.....	GENETIC & MORPHOLOGIC STUDIES OF MALFORMATION SYNDROMES.....	DTL	5K04 DE40648-05
CURRERI, P WILLIAM.....	METABOLIC AND HEMATOLOGICAL ALTERATIONS AFTER TRAUMA.....	SGYB	7K04 GM00029-03
DE JONG, RUDOLPH H.....	MECHANISMS OF ANESTHESIA.....	GMK	5K03 GM28168-10
FUJIMOTO, WILFRED Y.....	CELL CULTURE STUDY OF INSULIN SECRETION AND ACTION.....	AMK	5K04 AM47142-05
GARTLER, STANLEY M.....	GENETIC STUDY OF MAMMALIAN SOMATIC CELLS.....	NCR	5K06 GM03874-12
GOLDSTEIN, JOSEPH L.....	STUDIES IN BIOCHEMICAL AND CLINICAL GENETICS.....	GEN	5K04 GM70227-04
HAUSCHKA, STEPHEN D.....	MOLECULAR MECHANISMS OF MUSCLE AND NERVE DIFFERENTIATION.....	MBY	5K04 AM70154-04
HENDRICKSON, ANITA E.....	DEVELOPMENT OF PRIMATE RETINA.....	VISB	3K04 EY39039-01A1S1
HOLCENBERG, JOHN S.....	ABNORMAL AMINO ACID REQUIREMENTS BY CANCER CELLS.....	ET	5K04 CA25976-05
JOHNSON, DAVID G.....	THE REGULATION OF INSULIN RELEASE.....	MET	5K04 AM70727-02
LAIRD, CHARLES D.....	CHROMOSOME STRUCTURE AND FUNCTION.....	GEN	5K04 GM35558-06
NELSON, WENDEL L.....	STERIC ASPECTS OF DRUG-RECEPTOR INTERACTIONS.....	GMK	5K04 GM70023-05
OMENN, GILBERT S.....	GENETIC MARKERS FOR ANALYSIS OF BRAIN FUNCTION.....	GEN	5K04 GM43122-03
PIOUS, DONALD A.....	GENETIC AND DEVELOPMENTAL ANALYSIS IN HUMAN CELLS.....	HDMR	5K03 HD31721-10
QUADRACCI, LEONARD J.....	IMMUNOLOGIC RENAL DISEASE AND TRANSPLANTATION.....	IMB	5K04 AM70637-02
RUBIN, CYRUS E.....	HUMAN MUCOSAL STRUCTURE AND FUNCTION.....	NCR	5K06 CA03449-14
THOMAS, EDWARD D.....	TRANSPLANTATION OF MARROW AND MARROW METABOLISM.....	NCR	5K06 AI02425-12
WEISS, NOEL S.....	MENOPAUSAL ESTROGENS AND THE EPIDEMIOLOGY OF CANCER.....	EDC	1K04 CA00048-01
WHITELEY, HELEN R.....	METABOLISM OF ANAEROBIC MICROCOCCI.....	NCR	5K06 GM00442-12
WINTER, PETER M.....	RESEARCH INTO PULMONARY OXYGEN TOXICITY.....	CVA	5K04 HL48882-04
<b>VIRGINIA MASON RESEARCH CENTER      ZIP CODE 98011</b>			
D'Aoust, BRIAN G.....	PHYSIOLOGICAL & BIOCHEMICAL ADJUSTMENT TO PRESSURE.....	CYB	5K04 HL70543-03
HILDEBRANDT, JACOB.....	LUNG MECHANICS, RESPIRATORY CONTROL, AND GAS EXCHANGE.....	HTA	3K04 HL50169-04S1
HILDEBRANDT, JACOB.....	LUNG MECHANICS, RESPIRATORY CONTROL, AND GAS EXCHANGE.....	HTA	5K04 HL50169-05
HILDEBRANDT, JUDITH R.....	CONTROL OF LUNG FUNCTION AND RESPIRATION IN EXERCISE.....	AFY	1K04 HL00047-01
<b>WEST VIRGINIA</b>			
<b>MORGANTOWN</b>			
<b>WEST VIRGINIA UNIVERSITY      ZIP CODE 26506</b>			
ALBRINK, MARGARET J.....	SERUM TRIGLYCERIDES AND VASCULAR DISEASE.....	NCR	5K06 HL00486-13

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1975—Continued**

Awardee	Project title	IRG	Grant number
<b>WISCONSIN</b>			
<b>MADISON</b>			
UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON		ZIP CODE 53706	
BEINERT, HANS H.....	BASIC MECHANISMS IN BIOLOGICAL OXIDATIONS.....	NCR	5K06 GM18442-14
BLATTNER, FREDERICK R.....	REGULATORY SITE IN PRO- AND EUKARYOTIC GENOMES.....	GEN	1K04 GM00150-01
BORISY, GARY G.....	MICROTUBULE ASSEMBLY AND FUNCTION.....	SSS	1K04 GM00066-01
DAVIS, LARRY D.....	CELLULAR POTENTIAL CHANGES CAUSING CARDIAC ARRHYTHMIA.....	CVA	5K04 HL70740-02
DUNCAN, CHARLES L.....	STUDY OF ENTEROTOXIN OF C. PERFRINGENS TYPE A.....	AIRC	5K04 AI70721-02
HIXON, THOMAS J.....	STUDIES OF SPEECH BREATHING MECHANICS.....	CDR	5K04 NS41350-05
KAESBERG, PAUL J.....	STRUCTURE AND SYNTHESIS OF VIRUSES.....	NCR	5K06 AI21942-12
KARAVOLAS, HARRY J.....	STEROIDAL CONTROL/HYPOTHALAMIC-HYPOPHYSEAL-OVARIUM AXIS.....	REB	5K04 HD70006-04
LAGE, GARY L.....	CARDIAC GLYCOSIDE DISPOSITION AND TOXICITY.....	PHRA	1K04 HL00096-01
MC CLAIN, WILLIAM H.....	BIOSYNTHESIS & FUNCTION OF MOLECULAR GENETICS OF T-RNA.....	GEN	1K04 AI00020-01
MUELLER, GERALD C.....	STUDIES ON GROWTH REGULATING MECHANISMS.....	NCR	5K06 CA00685-15
NELSON, DAVID L.....	SPATIAL DIFFERENTIATION AND ION.....	CBY	1K04 NS00085-01
REZNIKOFF, WILLIAM S.....	GENETIC TRANSCRIPTION AND REGULATION SIGNALS IN E. COLI.....	MBG	5K04 GM30970-04
RHODE, WILLIAM S.....	MECHANICAL AND ELECTRICAL STUDIES OF THE INNER EAR.....	CMS	1K04 NS00107-01
RIS, HANS.....	STRUCTURE AND MOLECULAR ORGANIZATION OF GENETIC SYSTEMS.....	NCR	5K06 GM21948-12
UPDIKE, STUART J.....	IMMOBILIZED BIOLOGICAL ACTIVITY—CLINICAL APPLICATIONS.....	MET	5K04 GM70157-04
WEBSTER, JOHN G.....	BIOMEDICAL INSTRUMENTATION RESEARCH.....	GMK	5K04 GM19845-05
<b>MILWAUKEE</b>			
MEDICAL COLLEGE OF WISCONSIN		ZIP CODE 53233	
ANKEL, HELMUT K.....	BIOSYNTHESIS AND CONTROL OF FUNGAL POLYSACCHARIDES.....	GMK	5K04 GM50303-05
LECH, JOHN J.....	METABOLISM AND DISPOSITION OF FOREIGN COMPOUNDS BY FISH.....	TOX	1K04 ES00002-01
<b>PUERTO RICO</b>			
<b>SAN JUAN</b>			
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO AT RIO PIEDRAS		ZIP CODE 00931	
ADAM, WALDEMAR.....	SYNTHESIS OF ENDOPEROXIDE PRECURSORS TO PROSTAGLANDIN.....	MCHA	1K04 GM00141-01
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS		ZIP CODE 00936	
CORCINO, JOSE J.....	ACADEMIC CAREER DEVELOPMENT AWARD IN NUTRITION.....	GIM	5K07 AM70696-03
DEL CASTILLO, JOSE.....	PHYSIOLOGY AND PHARMACOLOGY OF EXCITATION.....	NCR	5K06 NS14938-14

## APPENDIX

### Notes on Selected Organizations

Organizations appearing in more than one geographical location or requiring a clarifying comment are listed below in alphabetical sequence. Comments on certain foundations or on organizations whose names have changed since last year appear after the name of the organization. The tables in which the organizations may be found are shown in parentheses following their locations.

- Alcorn State University (formerly shown as Alcorn Agricultural and Mechanical College)--Lorman, Miss. (2)
- American Institutes for Research--Washington, D.C.; Pittsburgh, Pa. (2)
- Arctic Institute of North America (formerly shown at Washington, D.C.)--Arlington, Va. (2)
- Battelle Memorial Institute--Columbus, Ohio; Richland, Seattle, Wash. (2)
- Boston Health and Hospitals Department (includes awards to the Mallory Institute of Pathology Foundation)--Boston (2 units), Mass. (2)
- California State Health and Welfare Agency--Berkeley, Eldridge, Pomona, Sacramento, Calif. (2)
- California State University and Colleges--Bakersfield, Hayward, Long Beach, Los Angeles, Northridge, San Diego, San Francisco, Calif. (2,3)
- Charles Stark Draper Laboratory (formerly shown as part of Massachusetts Institute of Technology)--Cambridge, Mass. (2)
- Chicago Board of Health (includes awards to Chicago Health Research Foundation)--Chicago, Ill. (2)
- City University of New York--New York (9 units), N.Y. (2,3)
- Claremont Colleges System--Claremont (3 units), Calif. (2)
- College of Medicine and Dentistry of New Jersey--Jersey City, Newark, Piscataway, N.J. (2,3)
- Cornell University--Ithaca, New York, N.Y. (2,3)
- Denver Health and Hospitals Department (includes awards to Denver Health Research Foundation)--Denver, Colo. (2)
- Eastern Virginia Medical Authority--Norfolk (2 units), Va. (2,3)
- Eye Research Institute of Retina Foundation (formerly shown as Retina Foundation)--Boston, Mass. (2)
- Federated Medical Resources (formerly shown in Philadelphia, Pa.)--Honey Brook, Pa. (2)
- Florida Department of Health and Rehabilitative Services--Jacksonville, Vero Beach, Fla. (2)
- Gulf South Research Institute--New Iberia, New Orleans, La. (2)
- Howard University--Boston, Cambridge, Mass. (2,3)
- Indiana University System--Bloomington, Indianapolis, Ind. (2,3)
- Institute of Applied Physiology and Medicine (formerly shown as Institute of Environmental Medicine and Physiology)--Seattle, Wash. (2)
- Johns Hopkins University--Baltimore, Silver Spring, Md. (2,3)



Kaiser Foundation Hospitals--Los Angeles, Oakland, San Francisco, Calif.; Portland, Ore. (2)

Latter-Day Saints Hospital System--Salt Lake City (2 units), Utah (2,3)

Linus Pauling Institute of Science and Medicine (formerly shown as Institute of Orthomolecular Medicine)--Menlo Park, Calif. (2)

Los Angeles County Health Services Department--Downey, Los Angeles (2 units), Torrance, Calif. (2,3)

Louisiana State University System--Baton Rouge, New Orleans (2 units), Shreveport, La. (2,3)

Marshfield Medical Foundation (formerly shown as Marshfield Clinic Foundation for Medical Research and Education)--Marshfield, Wis. (2)

Maryland State Department of Health and Mental Hygiene (includes awards to Friends Medical Sciences Research Center, Inc.)--Catonsville, Md. (2)

Massachusetts General Hospital--Belmont, Boston, Mass. (2,3)

Massachusetts Office of Human Services (includes awards to the Massachusetts Mental Health Research Corporation)--Boston, Medfield, Mass. (2)

Mayo Foundation--Rochester (2 units), Minn. (2,3)

Mississippi State University (formerly shown at State College, Miss.)--Mississippi State, Miss. (2)

New Jersey State Department of Institutions and Agencies (includes awards to the New Jersey Mental Health Research and Development Fund)--Skillman, N.J. (2)

New York City Health Services Administration (includes awards to the Medical and Health Research Association of New York City)--New York (2 units), N.Y. (2,3)

New York State Department of Health (includes awards to Health Research, Inc.)--Albany, Buffalo, N.Y. (2,3)

New York State Department of Mental Hygiene (includes awards to New York State Research Foundation for Mental Hygiene)--Albany, Buffalo, New York (3 units), Orangeburg, N.Y. The Rockland Psychiatric Center at Orangeburg was formerly shown as Rockland State Hospital. (2)

North Carolina Department of Human Resources (includes awards to the North Carolina Foundation for Mental Health Research)--Raleigh, N.C. (2)

Northwestern University--Chicago, Evanston, Ill. (2,3)

Oregon State Higher Education System--Corvallis, Eugene, Monmouth, Portland (2 units), Ore. The University of Oregon Health Sciences Center in Portland includes the medical and dental schools which were formerly shown separately. (2,3)

Pennsylvania State University--Hershey, University Park, Pa. (2,3)

Purdue University (formerly shown at Lafayette, Ind.)--West Lafayette, Ind. (2,3)

Rush-Presbyterian-St. Luke's Medical Center--Chicago (2 units), Ill. (2,3)

Rutgers University--New Brunswick, Newark, N.J. (2,3)

Sidney Farber Cancer Center (formerly shown as Children's Cancer Research Foundation)--Boston, Mass. (2)

Southern Illinois University--Carbondale, Edwardsville, Ill. (2)

Southern University and Agricultural and Mechanical College--Baton Rouge, New Orleans, La. (2)

State University of Florida System--Boca Raton, Gainesville, Tallahassee (2 units), Tampa, Fla. (2,3)

State University of New York--Albany, Binghamton, Buffalo (2 units), New York, Oneonta, Oswego, Plattsburgh, Stony Brook, Syracuse (2 units), N.Y. (2,3)

Texas Agricultural and Mechanical University System--College Station, Prairie View, Tex. (2,3)

Texas Department of Mental Health and Mental Retardation (includes awards to the Texas Foundation for Mental Health Research)--Houston, Tex. (2,3)

Tufts University--Boston, Medford, Mass. (2,3)

Tulane University--Covington, New Orleans, La. (2,3)

U.S. Department of Health, Education, and Welfare--San Francisco, Calif.; Carville, New Orleans, La.; Baltimore, Md.; Boston, Mass.; New York, N.Y.; Seattle, Wash. (2)

Union College and University System--Albany, Schenectady, N.Y. (2,3)

United Hospitals (includes Charles T. Miller Hospital formerly shown separately)--St. Paul, Minn. (2)

University of Arkansas--Fayetteville, Little Rock, Ark. (2,3)

University of California System--Berkeley, Davis, Irvine, La Jolla, Los Angeles, Riverside, San Francisco, Santa Barbara, Santa Cruz, Calif. The unit in La Jolla may include awards to Friends of Psychiatric Research of San Diego. (2,3)

University of Colorado--Boulder, Denver, Colo. (2,3)

University of Connecticut--Farmington, Storrs, Conn. (2,3)

University of Hawaii System--Hilo, Honolulu, Hawaii (2,3)

University of Health Sciences (formerly shown as Chicago Medical School/University of Health Sciences)--Chicago, Ill. (2)

University of Illinois System--Chicago (2 units), Peoria, Urbana, Ill. (2,3)

University of Kansas--Kansas City, Lawrence, Kans. (2,3)

University of Maryland System--Baltimore, Catonsville, College Park, Md. (2,3)

University of Massachusetts System--Amherst, Boston, Worcester, Mass. (2,3)

University of Miami--Coral Gables, Miami, Fla. (2,3)

University of Minnesota--Austin, Duluth, Minneapolis, St. Paul, Minn. (2,3)

University of Mississippi--Jackson, University, Miss. (2,3)

University of Missouri System--Columbia, Kansas City, Normandy, Mo. The University of Missouri at St. Louis, formerly shown in St. Louis, is now shown in Normandy, Mo. (2,3)

University of Nebraska System--Lincoln, Omaha (2 units), Neb. (2,3)

University of North Carolina System--Chapel Hill, Charlotte, Durham, Elizabeth City, Greensboro, Greenville, Raleigh, Wilmington, Winston-Salem, N.C. (2,3)

University of Oklahoma--Norman, Oklahoma City, Okla. (2,3)

University of Puerto Rico System--Mayaguez, San Juan (2 units), P.R. (2,3)

University of Tennessee System--Knoxville, Memphis, Tenn. The University of Tennessee Center for Health Sciences was formerly shown as University of Tennessee Medical Units. (2,3)

University of Texas System--Austin, Dallas, El Paso, Galveston, Houston (2 units), Richardson, San Antonio (2 units), Tex. The University of Texas at Dallas, formerly shown in Dallas, is now shown in Richardson, Tex. (2,3)

University of the Pacific--San Francisco, Stockton, Calif. (2,3)

University of Wisconsin System--Eau Claire, Madison, Milwaukee, Wis. (2,3)

University System of Georgia--Albany, Athens, Atlanta (2 units), Augusta, Fort Valley, Savannah, Statesboro, Ga. (2,3)

Utah State Higher Education System--Logan, Salt Lake City, Utah (2,3)  
Veterans Administration Hospital--Long Beach, Sepulveda, Calif.;  
Downey, Hines, Ill.; Wichita, Kans.; New York, Northport, N.Y.;  
Durham, N.C.; Portland, Ore.; Pittsburgh, Pa. (2)  
Washington University (formerly shown at St. Louis, Mo.)--University  
City, Mo. (2,3)  
William Beaumont Hospital (formerly shown in Royal Oak, Mich.)--  
Berkley, Mich. (2)







# NATIONAL INSTITUTES OF HEALTH

Research and Development  
Contracts

FISCAL YEAR 1975 FUNDS



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service      National Institutes of Health



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# NATIONAL INSTITUTES OF HEALTH

## Research and Development Contracts

### FISCAL YEAR 1975 FUNDS

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service                      National Institutes of Health

DHEW Publication No. (NIH) 76-1044

Prepared by  
NATIONAL INSTITUTES OF HEALTH  
DIVISION OF RESEARCH GRANTS  
Statistics and Analysis Branch



## **PREFACE**

The mission of the National Institutes of Health is to protect and improve the health of the American people. To achieve this goal, NIH conducts biomedical research in its own laboratories; provides grants to nonprofit organizations and academic institutions for research; provides grants for the training of research investigators; supports biomedical communications through programs and activities of the National Library of Medicine; and provides grants for facilities and other resources required for cancer research. In addition, the contract mechanism is used under appropriate circumstances.

Listings of NIH grants and contracts are prepared annually by the Division of Research Grants, based on records contained in the NIH central record system (IMPAC). This book presents a listing of contracts awarded from fiscal year 1975 funds.



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## INTRODUCTION

### *Coverage*

This volume includes research and development and cancer control contracts which were awarded by the National Institutes of Health from fiscal year 1975 funds and which were reported to the NIH central record system (IMPAC) as of December 1, 1975. Contracts reported in other systems at NIH are excluded from this report.

The awards shown in this volume are those made from fiscal year 1975 funds, as well as a small number from fiscal year 1973 released funds which were obligated in fiscal year 1975. The preponderance of fiscal year 1973 released funds were obligated in fiscal year 1974 and were shown in the publication for that year.

### *Appendix*

Organizations appearing in more than one geographical location, or requiring a clarifying comment, are listed in the appendix in alphabetic sequence.





## TECHNICAL NOTE

### *Explanation of the Contract Mechanism*

The increasing importance of research contracts in the NIH extramural research programs has generated considerable analysis and discussion covering, among other aspects, the development of criteria for use of the contract mechanism. These criteria, as listed in the NIH Guide for Grants and Contracts (Vol. 2, No. 7), are as follows:

**BASIC CRITERIA:** Contracts are used for support of research and development when one or more of the following considerations obtain:

- a. the awarding Institute or Division has identified a need for certain research work to accomplish its mission and has determined that the work must be done outside its own facilities and the initiative for undertaking the activity originates primarily within the awarding unit (Institute or Division) of NIH;
- b. the objective is the acquisition of a specified service or end product;
- c. the collaboration of a number of institutions must be obtained, and work must be coordinated or carried on in a comparable manner by all of these so that the data collected can be combined for statistical analysis; or
- d. the NIH awarding unit participates in the degree necessary to accomplish its mission in the direction and control over the manner of performance or timing of the work.

**COROLLARY CRITERIA** used to define the contract as the preferred instrument of support may be:

- a. there is in addition a requirement for extensive participation by the staff of the awarding unit in the program design, direction, methodology, and evaluation;
- b. a need to capitalize immediately on information through directed initiation or changes in particular research and developmental projects.

**MANDATORY USE OF CONTRACTS:** When awards are made to commercial or industrial profit-making corporations, or when payment of an amount in excess of actual costs (i.e., profit or fee) is intended, the use of the contract as the instrument of support is required.

## *Organization Identification*

In this presentation of research contracts, emphasis is placed on listing the organizations in the city and State of the unit in which professional responsibility of the project director lies. The major part of contractual activities are conducted by universities, research foundations, and commercial and industrial organizations across the Nation. Study of grantee organizations in the United States has led to the following qualifications in the listing of their names:

1. Within a given city, if an institution of higher education belonging to a system of higher education is comprised of two or more components, and each component has equal standing in the system, the name of the component is shown after the name of the institution.
2. If a foundation has been established for the purpose of receiving and administering funds, the name and location of the organization having professional responsibility for the contract are shown rather than the name and location of the foundation. The name of the foundation is indicated in the appendix if it differs materially from the name of the organization.
3. In the listing of governmental organizations, Federal as well as non-Federal, the name of the parent department precedes that of the individual component, and there are as many listings within a given city as there are components of the organization receiving contracts.

In the case of industrial organizations and associations, professional responsibility is assumed to reside at the address of the contractor and not necessarily at the "site of performance." Divisions of parent organizations are shown if they are indicated on the contract, and subsidiaries are linked to parent organizations when the relationship is known.

These qualifications do not apply to foreign organizations or in all cases to organizations in the United States, either because of insufficient information or because of an organizational structure unique to a particular organization.

Organizations appearing in more than one geographical location or requiring a clarifying comment are listed in the appendix in alphabetic sequence.

## ABBREVIATIONS

The component of NIH supporting a contract is indicated by the code letters in the left-hand column. These code letters form part of the identification of the research contract number in table 2.

<i>Code for supporting component</i>		<i>Abbreviation of supporting component</i>
	Institutes and Research Divisions*.....	IRD
AI	National Institute of Allergy and Infectious Diseases.....	NIAID
AM	National Institute of Arthritis, Metabolism, and Digestive Diseases.....	NIAMDD
	National Cancer Institute.....	NCI
CB	Division of Cancer Biology and Diagnosis.....	DCBD
CM	Division of Cancer Treatment.....	DCT
CN	Office of Cancer Control.....	DCC
CO	Office of the Director, NCI.....	ODNCI
CP	Division of Cancer Cause and Prevention.....	DCCP
CL	Clinical Center.....	CLC
CT	Division of Computer Research and Technology.....	DCRT
DE	National Institute of Dental Research.....	NIDR
ES	National Institute of Environmental Health Sciences..	NIEHS
EY	National Eye Institute.....	NEI
GM	National Institute of General Medical Sciences.....	NIHMS
HD	National Institute of Child Health and Human Development.....	NICHHD
	National Heart and Lung Institute.....	NHLI
HB	Division of Blood Diseases and Resources.....	DBDR
HI	Division of Intramural Research.....	DIR
HO	Office of the Director, NHLI.....	ODHLI
HR	Division of Lung Diseases.....	DLD
HV	Division of Heart and Vascular Diseases.....	DHVD
JT	Joint awards from two or more supporting components..	JOINT
NS	National Institute of Neurological and Communica- tive Disorders and Stroke.....	NINCDS
RG	Division of Research Grants.....	DRG
RR	Division of Research Resources.....	DRR
RS	Division of Research Services.....	DRS
LM	National Library of Medicine.....	NLM
OD	Office of the Director, NIH.....	OD

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\*For convenience of presentation, includes the following service components: Clinical Center, Division of Computer Research and Technology, Division of Research Grants, Division of Research Resources, and Division of Research Services.





TABLE 1.—SUMMARY OF NIH RESEARCH AND DEVELOPMENT CONTRACTS,  
BY SUPPORTING COMPONENT, FISCAL YEAR 1975

Supporting Component	Number	Dollars
Total National Institutes of Health.....(NIH)....	<u>2,158</u>	<u>398,080,363</u>
Total Institutes and Research Divisions*...(IRD)....	<u>2,060</u>	<u>389,250,139</u>
Clinical Center.....(CLC)....	4	1,684,622
Division of Computer Research and Technology.....(DCRT)....	1	11,488
Division of Research Grants.....(DRG)....	1	15,735
Division of Research Resources.....(DRR)....	22	4,306,775
Division of Research Services.....(DRS)....	<u>4</u>	<u>550,228</u>
National Cancer Institute.....(NCI)....	<u>1,124</u>	<u>249,824,177</u>
Division of Cancer Biology and Diagnosis.....	285	28,826,324
Division of Cancer Cause and Prevention.....	374	86,076,240
Division of Cancer Control.....	194	46,245,097
Division of Cancer Treatment.....	240	55,560,877
Office of the Director, NCI.....	<u>31</u>	<u>33,115,639</u>
National Eye Institute.....(NEI)....	<u>26</u>	<u>2,418,438</u>
National Heart and Lung Institute.....(NHLI)...	<u>327</u>	<u>74,757,830</u>
Division of Blood Diseases and Resources.....	89	8,213,984
Division of Heart and Vascular Diseases.....	163	55,698,065
Division of Intramural Research.....	7	762,179
Division of Lung Diseases.....	66	9,261,981
Office of the Director, NHLI.....	<u>2</u>	<u>821,621</u>
National Institute of Allergy and Infectious Diseases.....(NIAID) ..	123	11,104,464
National Institute of Arthritis, Metabolism, and Digestive Diseases.....(NIAMDD) ..	84	6,490,478
National Institute of Child Health and Human Development.....(NICHD) ..	170	19,075,586
National Institute of Dental Research....(NIDR)...	56	4,518,602
National Institute of Environmental Health Sciences.....(NIEHS) ..	20	2,622,099
National Institute of General Medical Sciences.....(NIGMS) ..	10	1,520,596
National Institute of Neurological and Com- municative Disorders and Stroke.....(NINCDS) ..	87	10,156,621
Two or more supporting components.....(JOINT) ..	<u>1</u>	<u>192,400</u>
Total National Library of Medicine.....(NLM) ....	<u>84</u>	<u>7,200,457</u>
Total Office of the Director.....(OD) ....	<u>14</u>	<u>1,629,767</u>

\*For convenience of presentation, includes the following service components: Clinical Center, Division of Computer Research and Technology, Division of Research Grants, Division of Research Resources, and Division of Research Services.





**Table 2.—NIH Research and Development Contracts,  
by Area, Organization, and Project Director,  
Fiscal Year 1975**

Project director	Purpose of contract	Contract No.	Dollars
GRAND TOTAL, 2,158 CONTRACTS.....			398,080,363
UNITED STATES,* 2,041 CONTRACTS.....			385,109,416
OTHER COUNTRIES, 117 CONTRACTS.....			12,970,947

## UNITED STATES

### ALABAMA

#### BIRMINGHAM

SOUTHERN RESEARCH INSTITUTE		ZIP CODE 35205		
BENNETT, LEE L.....	BIOCHEMISTRY AND MOLECULAR BIOLOGY OF ANTITUMOR DRUGS.....	5N01 CM43784-01		372,473
COWSAR, DONALD R.....	FLUORIDE RELEASING SYSTEM FOR ORAL USE.....	2N01 DE42446-02		96,848
DAVIS, THOMAS A.....	ACTIVATED CARBON FIBERS.....	3N01 AM22208-06		85,784
DENINE, PAUL E.....	PHARMACOLOGY OF POTENTIAL ANTILEUKEMIA DRUGS.....	1N01 CM57000-00		331,482
HILL, D L.....	METABOLISM OF CARCINOGENIC COMPOUNDS.....	1N01 CP55721-00		91,521
MELLETT, BRUCE L.....	STUDY OF ANTITUMOR AGENTS.....	3N01 CM43780-01		483,926
MONTGOMERY, JOHN A.....	SYNTHESIS OF POTENTIAL ANTICANCER AGENTS.....	5N01 CM43762-01		638,688
SCHMIDT, LEON H.....	PHARMACOLOGY STUDY OF ANTILEUKEMIC DRUGS.....	2N01 CM02083-14		269,055
TANQUARY, A CHARLES.....	DEVELOPMENT OF MATERIALS FOR MAXILLOFACIAL PROSTHESIS.....	2N01 DE42435-02		82,892
WILKOFF, LEE J.....	ORGAN-CULTURE ASSAY OF VITAMIN A ANALOGS.....	2N01 CP22064-03		254,400
ORGANIZATION TOTAL	10	2,707,069		

UNIVERSITY OF ALABAMA IN BIRMINGHAM		ZIP CODE 35294		
BARNES, GARY T.....	SYSTEM TO IMPROVE X-RAY IMAGING, CONTRAST AND SHARPNESS.....	1N01 CB53865-00		54,536
BENNETT, J CLAUDE.....	BIOCHEMISTRY OF NORMAL AND TUMOR-CELL SURFACE ANTIGENS.....	2N01 CB44009-01		97,682
BRANSCOMB, BEN V.....	SUPPORT FOR REHABILITATION FACILITY FOR CANCER PATIENTS.....	2N01 CN35032-02		327,781
BUTTERWORTH, C E, JR.....	ORAL CONTRACEPTIVE STEROIDS AND FOLIC ACID METABOLISM.....	3N01 HD42862-02		16,356
CH'EN, LAWRENCE T.....	DEVELOP A CENTRAL FACILITY TO STUDY ADERINE ARABINOSIDE.....	2N01 AI22532-05		113,228
DURANT, JOHN R.....	SUPPORT FOR CHEMOTHERAPY PROGRAM.....	5N01 CN35014-04		125,085
DURANT, JOHN R.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55231-00		433,447
HABEEB, AHMED F.....	STUDY AND PREPARATION OF GAMMA GLOBULIN.....	2N01 HB32939-02		75,777
LAMON, EDDIE W.....	RELATION OF EMBRYONIC ANTIGEN TO TUMOR ANTIGENS.....	2N01 CP43394-01		65,298
MADDOX, WILLIAM A.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45129-01		165,982
MC GHEE, JERRY R.....	SALIVARY IMMUNOGLOBULIN A DEFICIENCY.....	1N01 DE52456-00		79,750
SCHNAPER, HAROLD W.....	THIRD NATIONAL CANCER SURVEY.....	3N01 CP90049-11		5,893
SCHNAPER, HAROLD W.....	SUPPORT FOR CLINICAL CENTER FOR CORONARY HEART DISEASE.....	2N01 HV33107-02		464,637
SCHROENLOHER, RALPH E.....	DETECTION OF ANTIGEN-ANTIBODY COMPLEXES IN CANCER.....	1N01 CB53893-00		78,733
SHEFFIELD, L THOMAS.....	ESTABLISHMENT OF A LIPID RESEARCH CLINIC.....	3N01 HV12159-05		40,000
THOMAS, JOE P.....	COMMUNITY CARIES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52463-00		106,851
ORGANIZATION TOTAL	16	2,251,036		

\* Includes Puerto Rico.

NOTE: For information on how this table is structured, see Technical Note, p. vii. Also, for comments on organizations, see appendix.

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ALABAMA—Continued</b>			
<b>HUNTSVILLE</b>			
<b>HUNTSVILLE HOSPITAL</b>	<b>ZIP CODE 35801</b>		
HOWIE, VIRGIL M.....	VACCINE FOR PREVENTION OF RECURRENT OTITIS MEDIA.....	1N01 A152537-00	115,695
ORGANIZATION TOTAL	1 115,695		
<b>MONTGOMERY</b>			
<b>ALABAMA STATE DEPARTMENT OF PUBLIC HEALTH</b>	<b>ZIP CODE 36104</b>		
WOLF, FREDERICK S.....	EXPANSION OF ALABAMA CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55090-00	265,266
ORGANIZATION TOTAL	1 265,266		
<b>PRATTVILLE</b>			
<b>SOUTHERN ANIMAL FARMS</b>	<b>ZIP CODE 36067</b>		
CURLEE, JOSEPH.....	MAINTAIN RODENT PRODUCTION CENTER.....	1N01 CM53845-00	125,763
TILL, WALTER H.....	RODENT PRODUCTION CENTER.....	3N01 CM22013-04	55,236
ORGANIZATION TOTAL	2 180,999		
STATE TOTAL	30 5,520,065		
<b>ARIZONA</b>			
<b>TEMPE</b>			
<b>ARIZONA STATE UNIVERSITY</b>	<b>ZIP CODE 85281</b>		
PETTIT, GEORGE R.....	ISOLATE ANTITUMOR AGENTS FROM NATURAL PRODUCTS.....	3N01 CM12308-06	118,236
ORGANIZATION TOTAL	1 118,236		
<b>TUCSON</b>			
<b>UNIVERSITY OF ARIZONA</b>	<b>ZIP CODE 85721</b>		
COLE, JACK R.....	PURIFICATION OF PLANT EXTRACTS.....	2N01 CM33750-04	120,200
HRUBY, VICTOR J.....	SYNTHESIS OF SECRETIN, GLUCAGON, AND SELECTED ANALOGS.....	2N01 AM12125-05	8,154
OVITT, T W.....	DEVELOPMENT OF METHOD FOR VISUALIZING ARTERIAL STRUCTURE.....	1N01 HV52969-00	143,660
PRESENT, ARTHUR J.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	1N01 CN55097-00	185,000
SALMON, SYDNEY E.....	STAGING SYSTEM FOR PATIENTS WITH MULTIPLE MYELOMA.....	3N01 CM33713-02	93,429
ORGANIZATION TOTAL	5 550,443		
STATE TOTAL	6 668,679		
<b>ARKANSAS</b>			
<b>LITTLE ROCK</b>			
<b>ARKANSAS STATE DEPARTMENT OF HEALTH</b>	<b>ZIP CODE 72201</b>		
STEINKAMP, RUTH C.....	EXPANSION OF ARKANSAS CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55205-00	175,149
ORGANIZATION TOTAL	1 175,149		
<b>UNIVERSITY OF ARKANSAS AT LITTLE ROCK</b>	<b>ZIP CODE 72204</b>		
SUEN, JAMES Y.....	CANCER CONTROL PROJECT IN HEAD AND NECK CANCER.....	1N01 CN55253-00	198,896

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ARKANSAS—Continued</b>			
ORGANIZATION TOTAL	1	198,896	
<b>UNIVERSITY OF ARKANSAS MEDICAL CENTER      ZIP CODE 72201</b>			
FLANIGAN, WILLIAM J.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	1N01 A152511-00	21,144
PAULY, JOHN E.....	INSTRUCTIONAL MEDIATED COURSE IN GROSS ANATOMY.....	1N01 LM54709-00	111,634
ORGANIZATION TOTAL	2	132,778	
STATE TOTAL	4	506,823	
<b>CALIFORNIA</b>			
<b>BERKELEY</b>			
<b>ANDROS, INC.      ZIP CODE 94710</b>			
MC CLACTCHIE, EDWARD A.....	DEVELOP A CARBON DIOXIDE ANALYZER.....	1N01 GM52124-00	149,486
PORTNER, PEER M.....	FABRICATION OF A PROTOTYPE PULMONARY-FUNCTION ANALYZER.....	3N01 HR33002-04	126,989
PORTNER, PEER M.....	DEVELOPMENT OF LEFT VENTRICULAR ASSIST SYSTEM.....	2N01 HV42914-02	625,101
ORGANIZATION TOTAL	3	901,576	
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY—DEPARTMENT OF HEALTH      ZIP CODE 94704</b>			
LENNETTE, EDWIN H.....	CERTIFICATION OF VIRAL REAGENTS.....	2N01 A190089-09	39,498
LENNETTE, EDWIN H.....	ROLE OF ONCOGENIC VIRUSES IN CAUSATION OF CANCER.....	2N01 CP43209-01	245,818
ORGANIZATION TOTAL	2	285,316	
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT BERKELEY      ZIP CODE 94720</b>			
COLE, ROGER D.....	MAMMARY GLAND RESPONSIVENESS TO MULTIPLE HORMONES.....	2N01 CB43866-01	94,400
DAVIS, KINGSLEY.....	STUDY OF FAMILY FORMATIONS, KEY TRENDS AND PATTERNS.....	2N01 HD32728-04	138,300
DUESBERG, PETER H.....	COMPARATIVE STUDY OF MURINE AND AVIAN TUMOR VIRUSES.....	5N01 CP43212-01	111,822
HACKETT, ADELINE J.....	HUMAN MAMMARY TUMOR VIROLOGY.....	1N01 CP53502-00	65,258
MADIN, STEWART H.....	ASSOCIATED RESEARCH IN VIRAL ONCOLOGY.....	2N01 CP33237-03	462,919
MARTIN, G S.....	TRANSFORMATION OF DIFFERENTIATING CELLS.....	1N01 CP53537-00	41,288
MISHELL, ROBERT I.....	ANALYSIS OF SERUM REQUIREMENTS FOR IMMUNOLOGICAL STUDIES.....	2N01 CB23883-02	60,000
OECHSLI, FRANK W.....	STUDY OF THE CONSEQUENCES OF CONTRACEPTIVE FAILURE.....	1N01 HD52816-00	21,700
PAFFENBARGER, R S, JR.....	STUDY OF ORAL CONTRACEPTIVES AND BREAST CANCER.....	2N01 HD32742-03	14,182
WILLIAMS, MICHAEL C.....	SHEAR-INDUCED HEMOLYSIS.....	2N01 HB32952-05	37,343
ORGANIZATION TOTAL	10	1,047,212	
<b>CLAREMONT</b>			
<b>CLAREMONT COLLEGES SYSTEM—POMONA COLLEGE      ZIP CODE 91711</b>			
SMITH, NELSON.....	STRUCTURAL PROPERTIES OF CANCER THERAPEUTIC AGENTS.....	2N01 CM33703-02	41,700
ORGANIZATION TOTAL	1	41,700	
<b>CUPERTINO</b>			
<b>TYMSHARE, INC.      ZIP CODE 95014</b>			
NOT APPLICABLE.....	DATA COMMUNICATION SERVICES.....	2N01 LM44711-03	200,790
ORGANIZATION TOTAL	1	200,790	
<b>DAVIS</b>			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT DAVIS      ZIP CODE 95616</b>			
BORHANI, NEMAT O.....	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE.....	2N01 HV22977-06	1,170,808



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
BORHANI, NEMAT O.....	CENTER FOR THE ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52916-00	144,326
CARDIFF, ROBERT D.....	IN VITRO CULTIVATION OF MAMMARY TUMOR VIRUSES.....	2N01 CP33253-03	172,778
FAULKIN, LESLIE J, JR.....	STUDY OF MAMMARY TUMORS.....	3N01 CB90033-11	7,540
HENDRICKX, ANDREW G.....	SUPPORT FOR MONKEY COLONY.....	2N01 HD12088-06	264,900
KAWAKAMI, THOMAS G.....	COMPARATIVE LEUKEMIA AND SARCOMA VIRAL STUDIES.....	2N01 CP33242-03	497,664
MANNING, JARUE S.....	VIRAL ETIOLOGY OF MALIGNANT LYMPHOMA IN RHESUS MONKEYS.....	1N01 CP53504-00	74,388
WELLINGS, SEFTON R.....	STUDY OF PRENEOPLASTIC LESIONS OF HUMAN MAMMARY GLAND.....	3N01 CB43908-01	174,900
ORGANIZATION TOTAL	8	2,507,304	
<b>DOWNEY</b>			
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT-RANCHO LOS AMIGOS HOSPITAL ZIP CODE 90242			
HACKNEY, JACK D.....	EFFECT OF SMOKING IN CHRONIC AIRWAYS OBSTRUCTIONS.....	2N01 HR32901-03	76,450
ORGANIZATION TOTAL	1	76,450	
<b>DUARTE</b>			
CITY OF HOPE MEDICAL CENTER ZIP CODE 91010			
MELNYK, JOHN H.....	SEMI-AUTOMATED SYSTEM FOR CHROMOSOME PREPARATION.....	1N01 HD52843-00	99,000
OHNO, SUSUMU.....	PATHOLOGICAL HISTORY OF THE MAMMARY GLAND.....	2N01 CB33907-02	87,000
TODD, CHARLES W.....	PURIFIED CARCINOEMBRYONIC ANTIGEN AND ANTISERA.....	2N01 CB23877-05	108,519
ORGANIZATION TOTAL	3	294,519	
<b>EMERYVILLE</b>			
G. D. SEARLE & COMPANY—SEARLE CARDIO-PULMONARY SYSTEMS ZIP CODE 94662			
KITRILAKIS, SOTIRIS.....	CLINICAL EVALUATION OF A FLUID-FILLED IUD.....	2N01 HD32767-04	9,649
KITRILAKIS, SOTIRIS.....	FABRICATION OF IMPLANTABLE ARTIFICIAL HEART DEVICES.....	3N01 HV12035-15	462,013
ORGANIZATION TOTAL	2	471,662	
<b>GILROY</b>			
SIMONSEN LABORATORIES ZIP CODE 95020			
SIMONSEN, HARRY C.....	GENETIC CENTER OF RODENTS-BIOCONTAINMENT ENVIRONMENT.....	1N01 CM53817-00	374,274
SIMONSEN, HARRY C.....	MAINTAIN RODENT PRODUCTION CENTER.....	1N01 CM53847-00	220,138
ORGANIZATION TOTAL	2	594,412	
<b>HUNTINGTON BEACH</b>			
MCDONNELL DOUGLAS CORPORATION ZIP CODE 92647			
KELTON, ARDEN A.....	STUDY SUBPOPULATIONS OF PERIPHERAL LYMPHOCYTES IN MS.....	1N01 NS52312-00	42,228
MARTINI, W R.....	DEVELOPE A MODIFIED STIRLING CYCLE ENGINE.....	2N01 HV42901-02	707,757
ORGANIZATION TOTAL	2	749,985	
<b>IRVINE</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT IRVINE ZIP CODE 92664			
HUXTABLE, ROBERT F.....	DEVELOPING SENSORS FOR CONTINUOUS BLOOD GAS MONITORING.....	1N01 HR52947-00	278,380
KINGSBURY, DAVID T.....	RELATION OF HERPES SIMPLEX VIRUS TO UROGENITAL CANCER.....	1N01 CP53560-00	96,610
PFEFFER, ROBERT I.....	STUDY OF ESTROGEN USAGE AND RISK OF STROKE.....	2N01 HD32770-02	147,383
ORGANIZATION TOTAL	3	522,373	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
<b>LA JOLLA</b>			
<b>CRP ASSOCIATES      ZIP CODE 92037</b>			
PRUETT, C D.....	OPERATIONAL IMPACT EVALUATION SYSTEM NCI CANCER CENTERS.....	1N01 CB53902-00	87,710
ORGANIZATION TOTAL	1	87,710	
<b>SALK INSTITUTE FOR BIOLOGICAL STUDIES      ZIP CODE 92037</b>			
COHN, MELVIN.....	SUPPLY OF IMMUNE-RELATED CELL LINES.....	3N01 CB23886-03	96,115
NICOLSON, GARTH L.....	STUDY OF SUPRAMOLECULAR ORGANIZATION OF CELL SURFACES.....	2N01 CB33879-01	136,634
ORGANIZATION TOTAL	2	232,749	
<b>SCRIPPS CLINIC AND RESEARCH FOUNDATION      ZIP CODE 92037</b>			
DANDLKER, WALTER B.....	RESPONSIVENESS OF MAMMARY-GLAND CELLS TO HORMONES.....	2N01 CB43905-01	71,000
DIXON, FRANK J.....	STUDY OF ANTIBODIES IN DISEASED HUMAN KIDNEYS.....	2N01 A142505-01	176,700
DIXON, FRANK J.....	IMMUNOLOGIC STUDY OF RNA TYPE C VIRUSES.....	5N01 CP43375-01	217,123
EDGINGTON, THOMAS S.....	IMMUNOHISTOCHEMICAL ASSAY OF HEPATITIS ANTIGENS.....	2N01 A132509-03	69,640
FELDMAN, JOSEPH D.....	ROLE OF CIRCULATING TUMOR ANTIGENS IN IMMUNOTHERAPY.....	2N01 CB43874-01	94,144
HUENNEKENS, FRANK M.....	PREPARATION OF VITAMIN B12 ANALOGS.....	3N01 CM22042-03	12,000
MAKAMURA, ROBERT M.....	CEA-S IN IMMUNODIAGNOSIS OF CARCINOMA OF THE INTESTINES.....	1N01 CB53934-00	99,945
MEINKE, WILLIAM J.....	DETECTION OF VIRAL GENOMES IN HUMAN NEUROLOGIC DISEASES.....	5N01 NS42309-02	61,051
OLDSTONE, MICHAEL B.....	IMMUNOPATHOLOGIC STUDY OF LEUKEMIA.....	9N01 CP53512-00	85,892
REISFELD, RALPH A.....	PURIFICATION OF HUMAN TUMOR ASSOCIATED ANTIGENS.....	1N01 CB53899-00	128,000
REISFELD, RALPH A.....	STUDY OF SOLUBLE HUMAN TUMOR-SPECIFIC ANTIGENS.....	2N01 CP43277-01	94,396
RUSSELL, STEPHEN W.....	CHARACTERIZATION OF IMMUNE-RELATED CELLS IN TUMOR MASSES.....	2N01 CB44001-01	90,000
THEOFILOPOULOS, ARGYRIOS N.....	DETECT CIRCULATING ANTIGEN-ANTIBODY COMPLEXES IN CANCER.....	1N01 CB53952-00	89,992
VANDERLAAN, WILLARD P.....	PROLACTIN RADIOIMMUNOASSAYS FOR BREAST CANCER.....	2N01 CB33881-02	77,500
ORGANIZATION TOTAL	14	1,367,383	
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO      ZIP CODE 92037</b>			
BROWN, WILLIAM V.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	3N01 HV12160-07	30,000
HENDERSON, LEE W.....	BLOOD PRESSURE CONTROL WITH HEMODIAFILTRATION.....	1N01 AM52224-00	148,500
SELL, STUART.....	STUDY OF FETOGLOBULINS AND INDUCTION OF HEPATOMAS.....	2N01 CP33403-03	301,030
SHIMKIN, MICHAEL B.....	STUDY OF PULMONARY TUMORS FOR COCARCINOGENIC BIOASSAY.....	2N01 CP3232-07	153,509
ORGANIZATION TOTAL	4	633,039	
<b>LOMA LINDA</b>			
<b>LOMA LINDA UNIVERSITY      ZIP CODE 92354</b>			
JUDKINS, MELVIN P.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	2N01 HV32975-05	256,726
ORGANIZATION TOTAL	1	256,726	
<b>LOS ANGELES</b>			
<b>BILLY BURKE PRODUCTIONS      ZIP CODE 90036</b>			
NOT APPLICABLE.....	PRODUCE FILM ON CUSHING'S SYNDROME.....	1N01 LM54738-00	2,750
ORGANIZATION TOTAL	1	2,750	
<b>CEDARS-SINAI MEDICAL CENTER      ZIP CODE 90048</b>			
MAXWELL, MORTON H.....	DEVELOPMENT OF DIALYSIS SYSTEM.....	2N01 AM32225-03	104,825
MAXWELL, MORTON H.....	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION.....	2N01 HV12436-07	664,193
ORGANIZATION TOTAL	2	769,018	
<b>CHARLES R. DREW POSTGRADUATE MEDICAL SCHOOL      ZIP CODE 90059</b>			
BLOOM, RONALD S.....	NEONATAL RESPIRATORY INSUFFICIENCY.....	1N01 HR52958-00	179,224

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
KATSER, ARTHUR D.....	COGNITIVE STYLE TEST FOR HEALTH SCIENCE PROFESSIONS.....	1N01 LM54713-00	49,433
ORGANIZATION TOTAL	2 228,657		
<b>CHILDREN'S HOSPITAL OF LOS ANGELES ZIP CODE 90054</b>			
BENEDICT, WILLIAM F.....	FIBRINOLYSIS AS A PARAMETER OF IN VITRO TRANSFORMATION.....	1N01 CP55641-00	46,818
KARON, MYRON R.....	STUDIES OF NEW ANTICANCER AGENTS.....	2N01 CM43803-04	145,200
KARON, MYRON R.....	SUPPORT FOR CLINICAL CHEMOTHERAPY PROGRAM.....	5N01 CN35013-04	79,633
KARON, MYRON R.....	EARLY INTERVENTION IN REHABILITATION OF CANCER.....	1N01 CN55187-00	252,122
SEGEL, STUART E.....	EVALUATION OF PROTECTED ENVIRONMENTS.....	1N01 CM53831-00	399,980
ORGANIZATION TOTAL	5 923,753		
<b>HUGHES AIRCRAFT COMPANY—COMMERCIAL SYSTEMS DIVISION ZIP CODE 90045</b>			
NOT APPLICABLE.....	TECHNICAL SUPPORT SERVICES IN ALASKA.....	1N01 LM54701-00	11,332
ORGANIZATION TOTAL	1 11,332		
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY-UNIV OF SO CALIFORNIA MED CTR ZIP CODE 90033</b>			
BERNSTEIN, GERALD S.....	COLLABORATIVE STUDY OF THE EFFECT OF VASECTOMY.....	3N01 HD32757-03	47,300
HODGMAN, JOAN E.....	DEVELOPMENTAL PHENOMENA AND THE OCCURRENCE OF SIDS.....	3N01 HD22777-06	237,882
HODGMAN, JOAN E.....	STUDY OF PHOTOGRAPHY FOR NEONATAL HYPERBILIRUBINEMIA.....	2N01 HD42823-04	96,124
HON, EDWARD H.....	RESEARCH ON INTRAPARTUM FETAL MONITORING.....	3N01 HD12455-08	69,810
ORGANIZATION TOTAL	4 451,116		
<b>PACIFIC BIO-MARINE SUPPLY COMPANY—PACIFIC BIO-MARINE LABORATORIES ZIP CODE 90066</b>			
FAY, RIMMON C.....	STUDY OF DEVELOPMENT OF LABORATORY MARICULTURE TECHNIQUE.....	5N01 RR42169-02	34,636
ORGANIZATION TOTAL	1 34,636		
<b>UMF SYSTEMS ZIP CODE 90066</b>			
NOT APPLICABLE.....	MICROFILMING OF BIOMEDICAL LITERATURE.....	2N01 LM34732-04	196,000
ORGANIZATION TOTAL	1 196,000		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES ZIP CODE 90024</b>			
BABB, THOMAS L.....	ELECTRICAL STIMULATION OF THE CEREBELLUM.....	3N01 NS42331-01	101,400
BALUDA, M A.....	SEARCH FOR VIRAL DNA IN TISSUE FROM CANCER PATIENTS.....	3N01 CP33283-03	101,985
BATZDORF, ULRICH.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM53752-00	110,428
BECKMAN, LINDA J.....	DECISION MAKING AND FERTILITY REGULATION.....	1N01 HD52807-00	125,209
BRESLOW, LESTER.....	HISTORY OF CANCER CONTROL.....	1N01 CN55172-00	273,264
BYFIELD, JOHN E.....	BIOCHEMICAL RATIONALES FOR COMBINED USE OF RADIOTHERAPY.....	5N01 CM43791-02	88,722
CHASE, MICHAEL H.....	OPERATION OF INFORMATION CENTER.....	3N01 NS32306-04	549,109
CHERRY, JAMES D.....	IMMUNOLOGICAL RESPONSES IN SMALLPOX VACCINATED CHILDREN.....	1N01 AI52523-00	124,942
COBURN, JACK W.....	CONTROLLED EVALUATION OF MAINTENANCE PERITONEAL DIALYSIS.....	1N01 AM52218-00	85,780
DETILS, ROGER.....	STUDY OF PREVALENCE OF CHRONIC RESPIRATORY DISEASE.....	2N01 HR42913-01	365,622
EILBER, FREDERICK R.....	IMMUNOTHERAPY AS ADJUNCT TO CHEMOTHERAPY IN CARCINOMAS.....	1N01 CB53941-00	100,000
FAHEY, JOHN L.....	EVALUATE C. PARVUM IN ADVANCED BREAST AND LUNG CANCER.....	1N01 CB53939-00	91,205
FINEGOLD, SYDNEY M.....	STUDY OF FECAL FLORA.....	3N01 CP33380-03	13,938
GOLD, RICHARD H.....	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER.....	1N01 CN55248-00	100,799
GNONICK, HARVEY C.....	TRACE ELEMENT ABNORMALITIES IN CHRONIC UREMIA.....	3N01 AM42222-01	16,000
JONES, MARGARET.....	INFECTIONS IN PREGNANCY.....	2N01 NS32315-02	15,000
KOPPLE, JOEL D.....	NITROGEN METABOLISM IN UREMIA.....	3N01 AM32210-03	103,369
LAINE, JANICE E.....	MEASURES OF CHILDREN'S LANGUAGE PERFORMANCE.....	1N01 NS52322-00	117,100
MILLER, JAMES N.....	IN VITRO CULTIVATION OF TREPONEMA PALLIDUM.....	2N01 AI42538-02	65,974
MORTON, DONALD L.....	STUDY OF HUMAN MELANOMA.....	2N01 CB43852-01	219,822
NEUMANN, CHARLOTTE.....	EARLY MALNUTRITION AND IMMUNITY TO MEASLES.....	1N01 HD52851-00	138,000
NOT APPLICABLE.....	COOPERATIVE CATALOGING.....	2N01 LM44739-01	10,883
POE, NORMAN D.....	QUANTIFICATION OF INFARCT SIZE.....	1N01 HV52991-00	142,878
PORTER, DAVID D.....	RESPIRATORY SYNCYTIAL VIRUS INFECTION IN THE FERRET.....	1N01 AI52517-00	53,816
SANSONE-BAZZANO, GAIL.....	STEROID HORMONES ON SEBACEOUS SECRETION & ACNE DEVEL.....	3N01 HD42864-01	24,636
SPARKS, FRANK C.....	THERAPY OF CARCINOMA OF THE BREAST.....	2N01 CB43917-01	225,000



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
SPARKS, FRANK C .....	THERAPY OF PATIENTS WITH PANCREATIC CARCINOMA .....	2N01 CM43798-02	212,565
SHERMAN, MAURICE B .....	STUDY OF SUDDEN INFANT DEATH .....	2N01 HD42810-03	327,600
STERN, ELIZABETH .....	STEROID CONTRACEPTION STUDY .....	2N01 HD32731-05	105,543
STRAATSMAN, BRADLEY R .....	DIABETIC RETINOPATHY STUDY—CLINICAL CENTER .....	5N01 EY42173-01	64,138
TERASAKI, PAUL I .....	SENSITIZATION OF HUMAN LYMPHOCYTES .....	3N01 CB43933-01	22,488
TERASAKI, PAUL I .....	STUDY TYPING AND MATCHING FOR PLATELET TRANSFUSIONS .....	2N01 CM42092-06	378,512
TERASAKI, PAUL I .....	CELLULAR IMMUNITY TO TUMOR ANTIGENS .....	2N01 CP43211-03	298,275
WEIMER, HENRY E .....	DEVELOPMENT OF IMMUNODIAGNOSTIC TESTS FOR CANCER .....	2N01 CB43860-01	162,999
ORGANIZATION TOTAL	34	4,937,001	
<b>UNIVERSITY OF SOUTHERN CALIFORNIA ZIP CODE 90007</b>			
FRIOU, GEORGE J .....	ANTIBODIES TO HUMAN TUMOR CELLS .....	2N01 CB43881-01	79,923
GARDNER, MURRAY B .....	ETIOLOGY AND EPIDEMIOLOGY OF HUMAN CANCER .....	9N01 CP53500-00	1,939,784
GARDNER, MURRAY B .....	RESEARCH ON ETIOLOGY AND EPIDIOLOGY OF HUMAN CANCER .....	3N01 CP81030-13	666,125
GUISS, LEWIS W .....	EARLY DETECTION OF BREAST CANCER .....	2N01 CM45098-01	278,082
HALL, THOMAS C .....	THERAPY OF PATIENTS WITH GASTRIC CARCINOMA .....	1N01 CM53842-00	143,500
HAMMOND, DENMANN .....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK .....	1N01 CN55235-00	291,187
HARRIS, PHILLIP A .....	STUDY OF METABOLISM OF ANTINEOPLASTIC AGENTS .....	3N01 CM23241-05	99,107
HEER, DAVID M .....	IMPORTANCE OF KIN NETWORK AND POPULATION DYNAMICS .....	3N01 HD12037-17	23,148
KASPER, CAROL K .....	COOPERATIVE STUDY OF FACTOR VIII INHIBITOR IN HEMOPHILIA .....	1N01 HB53017-00	88,950
MARMORSTON, JESSIE .....	STUDY OF CORONARY HEART DISEASE .....	3N01 HV42931-02	531,381
MARMORSTON, JESSIE .....	ASPIRIN-MYOCARDIAL INFARCTION STUDY .....	1N01 HV52934-00	170,850
MASSRY, SHAUL G .....	OSREODYSTROPHY AND DIVALENT IONS IN KIDNEY FAILURE .....	1N01 AM52234-00	74,450
MOSLEY, JAMES W .....	PROSPECTIVE STUDY OF POST TRANSFUSION HEPATITIS .....	5N01 HB42972-02	326,920
RYAN, STEPHEN J .....	EVALUATION OF EARLY VITRECTOMY IN DIABETIC RETINOPATHY .....	1N01 EY52141-00	66,096
TOWNSEND, DUANE E .....	STUDY OF GENITAL TRACT ANOMALIES .....	2N01 CN45122-02	384,033
VOGT, PETER K .....	LETHAL MUTANTS OF RNA TUMOR VIRUSES .....	9N01 CP53518-00	272,620
WEHRLI, PAUL F .....	CLINICAL EVALUATION OF BACTERIAL POLYSACCHARIDE VACCINES .....	3N01 AI22506-04	103,698
ORGANIZATION TOTAL	17	5,539,854	
<b>MENLO PARK</b>			
<b>STANFORD RESEARCH INSTITUTE ZIP CODE 94025</b>			
BRAUMAN, SHARON K .....	DEVELOPMENT OF MATERIALS FOR HEART-ASSIST DEVICES .....	2N01 HB32959-03	134,053
CHADWICK, JOSEPH H .....	DEVELOPMENT OF WEARABLE RECORDING SYSTEM .....	2N01 NS32322-04	101,760
DAWSON, MARCIA I .....	SYNTHESIS OF PROSTAGLANDIN SYNTHETASE INHIBITORS .....	3N01 HD42832-01	13,406
DISCHER, DAVID P .....	CHEMICAL CARCINOGENS AND RECOMMENDED CONTROL .....	1N01 CN55176-00	1,598,530
FREEMAN, G .....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS .....	1N01 CP55701-00	160,500
INSEL, PAUL .....	PSYCHOLOGICAL ASPECTS OF BREAST CANCER .....	1N01 CN55313-00	253,305
LEAFFER, M .....	PREPARE RADIOLABELED CHEMICALS AND DRUGS .....	5N01 CM12162-07	209,990
MC GEE, ARTHUR A .....	STUDY OF CHEMICALS THAT AFFECT MAN AND HIS ENVIRONMENT .....	5N01 CP33285-07	275,000
MITOMA, CHOZO .....	STUDY OF METABOLISM OF ANTINEOPLASTIC AGENTS .....	2N01 CM23200-04	93,923
PETERS, JOHN H .....	METABOLISM OF DAPSONE IN LEPROSY PATIENTS .....	2N01 AI02283-05	69,643
PETERS, JOHN H .....	AMINO ACID METABOLISM IN UREMIA OF MAN .....	2N01 AM61132-19	91,000
REIST, ELMER J .....	THIRD ANNUAL CARCINOGENESIS CONFERENCE IN ORLANDO, FLA .....	1N01 CP55678-00	654
REIST, ELMER J .....	PREPARE 4KG OF AN N-NITROSO COMPOUND .....	1N01 CP55681-00	6,807
REIST, ELMER J .....	PREPARE BIS-(2-HYDROXYPROPYL)-NITROSAM .....	1N01 CP55686-00	3,506
REIST, ELMER J .....	PREPARATION OF CHEMICALS .....	1N01 CP55725-00	53,598
SIMMON, VINCENT .....	STUDY OF POTENTIAL PRESCREENS FOR CHEMICAL CARCINOGENS .....	2N01 CP33394-03	321,042
STOLZENBERG, SIDNEY J .....	PURIFICATION OF EXTRACTS OF P. DODECANDRA .....	2N01 HD42833-01	29,768
TANABE, MASATO .....	SYNTHESIS AND TESTING OF ANTIFERTILITY COMPOUNDS .....	3N01 HD12462-08	108,353
TANABE, MASATO .....	CHEMICAL CONTRACEPTIVES FOR THE MALE AND FEMALE .....	1N01 HD52844-00	435,180
ORGANIZATION TOTAL	19	3,960,018	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
<b>MOUNTAIN VIEW</b>			
<b>LEE-MAC ZIP CODE 94040</b>			
MC COY, THOMAS.....	INCREASING YIELDS OF HUMAN INTERFERON PRODUCTION.....	1N01 A152521-00	70,491
ORGANIZATION TOTAL	1 70,491		
<b>OAKLAND</b>			
<b>CHILDREN'S HOSPITAL MEDICAL CENTER OF NORTHERN CALIFORNIA ZIP CODE 94609</b>			
ABRAHAM, SAMUEL.....	IDENTIFICATION OF CELL TYPES IN CULTURE.....	2N01 CB33906-03	100,000
ORGANIZATION TOTAL	1 100,000		
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE ZIP CODE 94612</b>			
FRIEDMAN, GARY D.....	EPIDEMIOLOGIC STUDY OF CANCER OF THE COLON.....	5N01 CP33215-02	30,320
GLASS, A G.....	CLINICAL ONCOLOGY PROGRAM.....	1N01 CN55289-00	32,592
KODLIN, DANKWARD.....	A CASE CONTROL STUDY ON RESERPINE AND BREAST CANCER.....	1N01 HV52944-00	51,565
RAMCHARAN, SAI TRI.....	CONTRACEPTIVE AGENTS ON BIRTH DEFECT FREQUENCY.....	5N01 HD42861-01	308,825
WILD, J E.....	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE.....	2N01 HV33105-04	1,131,571
ORGANIZATION TOTAL	5 1,554,873		
<b>SAMUEL MERRITT HOSPITAL ZIP CODE 94609</b>			
SCHWEITZER, ROBERT.....	SCREENING FOR EARLY DETECTION OF CANCER OF THE BREAST.....	2N01 CN45068-04	202,407
SCHWEITZER, ROBERT.....	RESERPINE AND BREAST CANCER.....	1N01 CP35555-00	1,302
ORGANIZATION TOTAL	2 203,709		
<b>OXNARD</b>			
<b>STATHAM INSTRUMENTS ZIP CODE 93030</b>			
CHAMBERS, JACK A.....	DEVELOPMENT OF AN ELECTRICAL-ENERGY CONVERTER.....	2N01 HV42906-02	206,055
ORGANIZATION TOTAL	1 206,055		
<b>PALO ALTO</b>			
<b>AMERICAN INSTITUTES FOR RESEARCH ZIP CODE 94302</b>			
CARD, JOSEFINA J.....	ANTECEDENTS AND CONSEQUENCES OF THE MOTIVATION CONTROL.....	1N01 HD52808-00	57,423
ORGANIZATION TOTAL	1 57,423		
<b>NORTHERN CALIFORNIA CANCER PROGRAM, INC. ZIP CODE 94304</b>			
SILVERMAN, SOL.....	NETWORK DEMONSTRATION PROJECT IN HEAD AND NECK CANCER.....	1N01 CN55180-00	199,000
ORGANIZATION TOTAL	1 199,000		
<b>PALO ALTO MEDICAL RESEARCH FOUNDATION ZIP CODE 94301</b>			
KRAHENBUHL, JAMES L.....	ROLE OF MACROPHAGES IN THE IMMUNE RESPONSE.....	2N01 CB43873-01	88,956
LEWIS, BERNARD I.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52911-00	156,233
ORGANIZATION TOTAL	2 245,189		
<b>PASADENA</b>			
<b>CALIFORNIA INSTITUTE OF TECHNOLOGY ZIP CODE 91109</b>			
DAVIDSON, NORMAN R.....	EM STUDY OF TUMOR-VIRUS NUCLEIC ACIDS.....	5N01 CP43306-01	92,181
DREYER, WILLIAM J.....	DEVELOPMENT OF ANTISERA AND ANTIBODIES.....	2N01 CB43875-01	77,276
ORGANIZATION TOTAL	2 169,457		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
<b>MUNTINGTON MEMORIAL HOSPITAL      ZIP CODE 91105</b>			
PUDENZ, ROBERT H.....	STUDY OF FEASIBILITY OF A SENSORY PROSTHESIS.....	2N01 NS02275-05	107,000
ORGANIZATION TOTAL	1      107,000		
<b>KONIGSBERG INSTRUMENTS      ZIP CODE 91107</b>			
KONIGSBERG, EPH.....	TEST DIFFERENTIAL PRESSURE TRANSDUCER.....	2N01 HV92241-10	89,225
ORGANIZATION TOTAL	1      89,225		
<b>RANCHO SANTA FE</b>			
<b>NATIONAL INSTITUTE OF SCIENTIFIC RESEARCH      ZIP CODE 92067</b>			
FISHER, BRUCE S.....	MODIFIED POLYCARBONATE MEMBRANES FOR HEMODIALYSIS.....	3N01 AM02100-12	160,000
ORGANIZATION TOTAL	1      160,000		
<b>REDONDO BEACH</b>			
<b>TRW, INC.—TRW SYSTEMS GROUP      ZIP CODE 90278</b>			
JONES, I R.....	HYBRID THERMAL CONVERTER FOR AN ARTIFICIAL HEART.....	3N01 HV42900-02	274,399
ORGANIZATION TOTAL	1      274,399		
<b>SACRAMENTO</b>			
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY      ZIP CODE 95814</b>			
DUNN, JOHN E, JR.....	STUDY OF INCIDENCE OF CANCER.....	3N01 CP33353-03	541,441
FASCAL, ELFRIECH.....	CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55263-00	337,925
ORGANIZATION TOTAL	2      879,366		
<b>GENERAL TIRE AND RUBBER COMPANY—AEROJET LIQUID ROCKET COMPANY      ZIP CODE 95813</b>			
JAGOW, R H.....	PREPARATION FOR BULK CHEMICALS AND DRUGS.....	1N01 CM57031-00	220,820
JAGOW, R H.....	PREPARATION OF COMPOUNDS NOT COMMERCIALY AVAILABLE.....	3N01 CM81300-09	35,107
RUDNICKI, M I.....	DEVELOPMENT OF STIRLING CYCLE ENERGY-CONVERSION.....	2N01 HV32930-05	710,135
ORGANIZATION TOTAL	3      966,062		
<b>PLANNED PARENTHOOD ASSOCIATION OF SACRAMENTO      ZIP CODE 95814</b>			
STEWART, FELICIA H.....	FACTORS AFFECTING ABORTION AND CONTRACEPTIVE USE.....	1N01 HD52822-00	23,634
ORGANIZATION TOTAL	1      23,634		
<b>SAN DIEGO</b>			
<b>GENERAL ATOMIC COMPANY      ZIP CODE 92138</b>			
MEYER, CHARLES H, JR.....	DESIGN OF CARBON FILM DEPOSITS FOR PROSTHETIC DEVICES.....	2N01 HB42928-01	152,898
ORGANIZATION TOTAL	1      152,898		
<b>WSA, INC.      ZIP CODE 92121</b>			
DOBSON, JACK.....	EQUIPMENT FOR GAMMA-RAY, X-RAY, LET RADIATION THERAPY.....	1N01 CB53887-00	18,435
ORGANIZATION TOTAL	1      18,435		
<b>SAN FRANCISCO</b>			
<b>AMERICAN CANCER SOCIETY CALIFORNIA DIVISION      ZIP CODE 94103</b>			
BROWN, HELENE G.....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM.....	1N01 CN55269-00	118,425
ORGANIZATION TOTAL	1      118,425		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
<b>INSTITUTES OF MEDICAL SCIENCES      ZIP CODE 94120</b>			
HILL, J DONALD .....	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY.....	5N01 HR42917-02	198,839
HULLEY, STEPHEN B.....	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE.....	2N01 HV22981-05	961,800
WIDDOWSON, GRAHAM.....	SUPPORT FOR CENTRAL LABORATORY.....	5N01 HV33101-04	842,678
ORGANIZATION TOTAL	3      2,003,317		
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE      ZIP CODE 94123</b>			
FREID, MARVIN A.....	EPIDEMIOLOGICAL STUDY OF PNEUMOCOCCAL DISEASE.....	2N01 AI22513-04	240,961
RAMCHARAN, SAITRI.....	STUDY OF CONTRACEPTIVE DRUGS.....	2N01 HD32710-07	784,435
ORGANIZATION TOTAL	2      1,025,396		
<b>R. K. DAVIES MEDICAL CENTER—FRANKLIN HOSPITAL      ZIP CODE 94114</b>			
GOTCH, FRANK A.....	STUDY OF PERMEABILITY OF HIGH-FLUX DIALYSIS MEMBRANES.....	2N01 AM32206-01	45,000
GOTCH, FRANK A.....	EVALUATION OF HOLLOW-FIBER DIALYZERS.....	2N01 AM42202-03	98,865
ORGANIZATION TOTAL	2      143,865		
<b>SAN FRANCISCO MEDICAL SOCIETY      ZIP CODE 94118</b>			
PERKINS, HERBERT A.....	REMOVAL OF HLA ANTIGENS FROM BLOOD.....	2N01 HB12408-04	48,237
ORGANIZATION TOTAL	1      48,237		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO      ZIP CODE 94143</b>			
ARIEFF, ALLEN I.....	ABNORMALITIES OF NERVOUS SYSTEM FUNCTION IN UREMIA.....	1N01 AM52204-00	47,878
BISHOP, J MICHAEL.....	STUDY OF THE ROLE OF VIRION-ASSOCIATED DNA POLYMERASE.....	3N01 CP33293-04	244,511
DIRKSEN, ELLEN R.....	STUDY OF OVIDUCTAL CILIA.....	3N01 HD32729-04	2,100
ELASHOFF, ROBERT M.....	DEVELOPMENT OF GROUP-TESTING FOR SCREENING CARCINOGENS.....	2N01 CP33327-02	74,752
ELIAS, JOEL.....	HORMONAL REQUIREMENTS OF MAMMARY TISSUE.....	2N01 CB23861-03	79,900
GIRISH, VYAS W.....	STUDY ON DETECTION OF HEPATITIS BY HEMAGGLUTINATION.....	2N01 HB33000-02	55,323
LEVY, JAY A.....	ISOLATION OF HUMAN XENOTROPIC VIRUSES.....	2N01 CP43381-01	133,751
MARTIN, DAVID W, JR.....	PROPAGATION OF MUTANT SOMATIC CELLS.....	2N01 CP43239-02	106,628
MICHAELI, DOV.....	INTERACTIONS OF MODIFIED BIOPOLYMERS WITH BLOOD.....	5N01 HB42984-02	79,594
PARMLEY, WILLIAM.....	QUANTIFICATION OF ISCHEMIC AND INFARCTED MYOCARDIUM.....	1N01 HV52989-00	229,930
PETRAKIS, NICHOLAS L.....	APPLICATION OF BREAST PUMP TO OBTAIN BREAST SECRETIONS.....	2N01 CB33882-03	170,000
PHILLIPS, THEODORE L.....	EARLY INTERVENTION IN REHABILITATION OF CANCER PATIENTS.....	1N01 CN55190-00	227,343
POTTER, DONALD E.....	CHRONIC PERITONEAL DIALYSIS AND HEMODIALYSIS IN CHILDREN.....	1N01 AM52219-00	61,790
SALVATIERRA, OSCAR.....	EVALUATION OF ALG AS AN IMMUNOSUPPRESSIVE AGENT.....	2N01 AI22540-05	49,247
SILVERSTEIN, STEVEN J.....	COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52470-00	117,740
SPLITLER, LYNN E.....	PREPARATION OF TRANSFER FACTOR FROM DHARMENDRA ANTIGEN.....	1N01 AI52500-00	111,500
TANAGHO, EMIL A.....	STUDY OF URINARY BLADDER EVACUATION.....	3N01 NS32307-02	6,948
THOMAS, ARTHUR N.....	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY.....	5N01 HR42915-01	179,000
TOMKINS, GORDON M.....	HORMONAL CONTROL OF GENE EXPRESSION IN TUMOR VIRUSES.....	2N01 CP33332-02	67,315
WILSON, CHARLES B.....	STUDY OF BRAIN-TUMOR CHEMOTHERAPY.....	2N01 CMA43706-03	77,101
WYCOFF, SAMUEL J.....	MOUTHRINSE AND DEVELOPMENT OF PLAQUE IN HUMANS.....	3N01 DE42439-03	1,342
ZIPPIN, CALVIN.....	TUMOR REGISTRY TRAINING PROGRAM AND ALLIED ACTIVITIES.....	3N01 CP43383-01	90,791
ORGANIZATION TOTAL	22      2,214,484		
<b>UNIVERSITY OF THE PACIFIC      ZIP CODE 94115</b>			
ARSHAM, GARY.....	DEVELOPMENT OF OPHTHALMOLOGY TRAINING COURSE.....	3N01 LM44003-04	38,289
TUCKER, HARVEY J.....	ACUTE RESPIRATORY INSUFFICIENCY EDUCATIONAL PROGRAMS.....	2N01 HR42964-02	304,854
ORGANIZATION TOTAL	2      343,143		
<b>WEST COAST CANCER FOUNDATION      ZIP CODE 94120</b>			
ENELOW, ALLEN J.....	PSYCHOLOGICAL ASPECTS OF BREAST CANCER.....	1N01 CN55314-00	203,269
VAETH, JEROME M.....	PROTOTYPE NETWORK DEMONSTRATION IN BREAST CANCER.....	2N01 CN45143-01	325,000
ORGANIZATION TOTAL	2      528,269		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
<b>SAN JOSE</b>			
<b>SANTA CLARA VALLEY MEDICAL CENTER</b>	<b>ZIP CODE 95128</b>		
STEVENS, DAVID A.....	CELL MEDIATED IMMUNITY TO EPSTEIN-BARR VIRUS.....	1N01 CB53957-00	26,701
ORGANIZATION TOTAL	1	26,701	
<b>SAN LEANDRO</b>			
<b>PHYSICS INTERNATIONAL COMPANY</b>	<b>ZIP CODE 94577</b>		
O'NEILL, C G.....	PIEZOELECTRIC CONVERTER SYSTEM/CIRCULATORY ASSIST DEVICE.....	2N01 HV92253-13	266,180
ORGANIZATION TOTAL	1	266,180	
<b>SANTA MONICA</b>			
<b>RAND CORPORATION</b>	<b>ZIP CODE 90406</b>		
CARTER, GRACE.....	NIH POLICIES FOR THE SUPPORT OF EXTRAMURAL RESEARCH.....	1N01 OD52127-00	319,429
DETRAY, DENNIS N.....	ANALYSIS OF CHILD SPACING AND FERTILITY BEHAVIOR.....	1N01 HD52837-00	127,000
GRONER, GABRIEL F.....	STUDY OF CLINICAL INFORMATION.....	3N01 RR22106-12	28,994
GRONER, GABRIEL F.....	PROTOTYPE CLINICAL RESEARCH DATA.....	1N01 RR52111-00	835,783
ORGANIZATION TOTAL	4	1,311,206	
<b>SYSTEM DEVELOPMENT CORPORATION</b>	<b>ZIP CODE 90404</b>		
NOT APPLICABLE.....	COMPUTER-SUPPORT SERVICES FOR MEDLARS SYSTEM.....	3N01 LM44719-01	76,993
NOT APPLICABLE.....	BENCHMARK AND PROGRAM CONVERSION SPECIFICATIONS.....	1N01 LM54707-00	20,500
NOT APPLICABLE.....	FURTHER ENHANCEMENTS OF MEDLARS II.....	1N01 LM54726-00	60,361
NOT APPLICABLE.....	MEDLARS TRAINING.....	4N01 LM54745-00	12,500
ORGANIZATION TOTAL	4	170,354	
<b>SIMI VALLEY</b>			
<b>PHARM-ECO LABORATORIES</b>	<b>ZIP CODE 93065</b>		
DRAPER, MARSHALL D.....	PREPARATION OF BULK CHEMICALS AND DRUGS.....	5N01 CM23707-06	206,259
ORGANIZATION TOTAL	1	206,259	
<b>STANFORD</b>			
<b>STANFORD UNIVERSITY</b>	<b>ZIP CODE 94305</b>		
ALDERMAN, E L.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	2N01 HV32974-05	239,216
BENSCH, KLAUS G.....	STUDY OF OAT-CELL CARCINOMA OF THE LUNG.....	2N01 CP43295-02	87,862
BERNFELD, MERTON R.....	STROMA IN NEOPLASTIC AND PRENEOPLASTIC MAMMARY GLAND.....	1N01 CB53903-00	78,000
CUNHA, GERALD R.....	INTERACTIONS IN HORMONALLY-INDUCED CELLULAR ALTERATIONS.....	1N01 CP55649-00	72,589
FARQUHAR, JOHN W.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV12161-06	2,270,000
FEIGEN, GEORGE A.....	IMMUNOPHARMACOLOGY STUDY OF FALLOPIAN TUBE.....	2N01 HD32775-02	162,338
GRUMET, F CARL.....	AUTOMATED SYSTEM FOR HLA TYPING.....	1N01 CB53935-00	36,229
HARRISON, DONALD C.....	NATURAL HISTORY OF PATIENTS WITH PREINFARCTION SYNDROME.....	2N01 HV12482-04	23,683
HAYFLICK, LEONARD.....	STUDY OF HUMAN TUMOR CELL CULTURES.....	2N01 CP43244-04	97,679
KAPLAN, HENRY S.....	HODGKIN'S DISEASE AND OTHER HUMAN MALIGNANT LYMPHOMAS.....	3N01 CP43228-01	649,445
KENT, BARBARA E.....	DEVELOPMENT OF CANCER TRAINING PROGRAMS FOR THERAPISTS.....	5N01 CN45044-01	90,739
LEDERBERG, JOSHUA.....	BIOCHEMICAL MARKERS THAT MAY PRESAGE PRESENCE OF CANCER.....	2N01 CB43902-02	95,000
LUCAS, ZOLTAN J.....	STUDY OF INHIBITORS OF CELLULAR IMMUNITY.....	2N01 CB33905-02	100,000
MC DEVITT, HUGH O.....	SUPPLY OF MICE.....	2N01 CB43941-01	70,323
MERIGAN, THOMAS C.....	EVALUATION OF THERAPEUTIC EFFICACY OF HUMAN INTERFERON.....	2N01 AI45227-01	91,668
MILLER, WARREN B.....	ANALYSIS OF PERSONALITY FACTORS IN PREMARITAL PREGNANCY.....	1N01 HD52804-00	19,222
NELSON, THOMAS S.....	STUDY OF PHYSIOLOGY OF THE OVIDUCT.....	2N01 HD32774-05	133,799

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
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**CALIFORNIA—Continued**

NOT APPLICABLE .....	EVALUATION OF ATS-F HEALTH EXPERIMENTS .....	3N01 LM34734-02	58,626
PAISLEY, WILLIAM J. ....	EVALUATION OF PUBLIC EDUCATION IN CANCER .....	3N01 CN45041-01	7,465
STOCKDALE, FRANK E. ....	CONTROL OF DNA SYNTHESIS IN THE MAMMARY GLAND .....	2N01 CB23875-03	85,000
SWENSON, ROBERT S. ....	HYPERGLYCEMIA, LIPEMIA, INSULIN RESIST. IN RENAL FAIL .....	2N01 AM42213-01	113,384
WEINER, MICHAEL W. ....	ROLE OF ACETATE IN DIALYSATE FOR HEMODIALYSIS .....	1N01 AM52210-00	175,942
WHITE, ROBERT L. ....	TRANSDERMAL ELECTRONICS FOR AUDITORY PROSTHESIS .....	1N01 NS52306-00	80,283
ORGANIZATION TOTAL	23 4,838,492		

**TORRANCE**

**LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL      ZIP CODE 90509**

DAVIDSON, WARREN D. ....	ROLE OF ACETATE IN DIALYSATE FOR HEMODIALYSIS .....	1N01 AM52209-00	200,000
HEINER, DOUGLAS C. ....	PRODUCTION OF ANTIHUMAN IGE REFERENCE REAGENTS .....	3N01 AI42547-01	9,536
MYHRE, BYRON A. ....	STUDY OF CLINICAL SAFETY OF FROZEN-THAWED RED CELLS .....	3N01 HB42927-02	56,500
ODELL, WILLIAM D. ....	STUDY OF HORMONE MARKERS FOR DETECTING CANCER .....	5N01 CB43903-01	153,350
PARLOW, ALBERT .....	COLLECTION OF RAT PITUITARIES AND ASSAYING HORMONES .....	3N01 AM90056-18	140,000
ORGANIZATION TOTAL	5 559,386		

**VAN NUYS**

**BIO-SCIENCE LABORATORIES      ZIP CODE 91405**

WYBENGO, DONALD R. ....	STUDY OF BLOOD TOXICITY .....	2N01 HV32961-02	400,000
ORGANIZATION TOTAL	1 400,000		

**INDIVIDUAL AWARD—ARMITAGE, FRANK      ZIP CODE 91403**

ARMITAGE, FRANK .....	MEDICAL ILLUSTRATION SERVICES .....	1N01 LM54733-00	12,920
ORGANIZATION TOTAL	1 12,920		

**WOODLAND HILLS**

**OPERATING SYSTEMS      ZIP CODE 91364**

NOT APPLICABLE .....	DEVELOP PHOCOS SUBSYSTEM OF MEDLARS II .....	1N01 LM54749-00	55,928
ORGANIZATION TOTAL	1 55,928		
STATE TOTAL	252 47,074,819		

**COLORADO**

**BOULDER**

**UNIVERSITY OF COLORADO      ZIP CODE 80302**

HASSNER, ALFRED .....	SYNTHESIS OF NITROGEN HETEROCYCLIC ANTINEOPLASTICS .....	5N01 CM43779-01	72,905
ORGANIZATION TOTAL	1 72,905		

**DENVER**

**CHILDREN'S HOSPITAL      ZIP CODE 80218**

HOLTON, CHARLENE P. ....	CLINICAL CHEMOTHERAPY PROGRAM .....	5N01 CN35019-04	114,245
ORGANIZATION TOTAL	1 114,245		

**COLORADO REGIONAL CANCER CENTER      ZIP CODE 80218**

SEMPLE, MARTIN .....	COMPREHENSIVE CANCER CENTERS COMMUNICATIONS NETWORK .....	1N01 CN55236-00	240,355
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**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>COLORADO—Continued</b>			
ORGANIZATION TOTAL	1	240,355	
<b>COLORADO STATE DEPARTMENT OF HEALTH ZIP CODE 80220</b>			
REGER, ROY H.....	COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52472-00	17,802
ORGANIZATION TOTAL	1	17,802	
<b>NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER ZIP CODE 80206</b>			
GREY, HOWARD M.....	PREPARATION OF REAGENT ANTISERA AND ANTIGENS.....	1N01 CB53912-00	71,811
SCHAEFER, WERNER B.....	SEROLOGICAL IDENTIFICATION OF 'ATYPICAL' MYCOBACTERIA.....	2N01 AI02079-05	24,164
ORGANIZATION TOTAL	2	95,975	
<b>UNIVERSITY OF COLORADO MEDICAL CENTER ZIP CODE 80220</b>			
ALFREY, ALLEN C.....	TRACE ELEMENT ABNORMALITIES IN CHRONIC UREMIA.....	3N01 AM42217-01	121,936
BOREK, ERNEST.....	DEVELOPMENT OF INHIBITORS TO RNA METHYLATION.....	2N01 CM12186-05	115,735
FRANKENBURG, WILLIAM K.....	PRODUCTION OF SELF-INSTRUCTIONAL MULTIMEDIA MATERIALS.....	1N01 LM54722-00	86,444
HATHAWAY, WILLIAM E.....	SUPPLY OF CANCER SPECIMENS.....	3N01 CP33400-02	30,000
HATHAWAY, WILLIAM E.....	FACTOR VIII INHIBITORS IN HEMOPHILIA.....	1N01 HB53023-00	69,280
HENDEE, WILLIAM R.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	3N01 CN45160-02	111,000
LUBS, HERBERT A.....	CONGENITAL ANOMALIES AND CHROMOSOME VARIATION.....	1N01 NS52326-00	34,157
MC INTOSH, KENNETH.....	CLINICAL EVALUATION OF RESPIRATORY VACCINES.....	2N01 AI22501-03	95,263
NORA, JAMES J.....	EVALUATION OF EFFECT OF CONTRACEPTIVE AGENTS.....	5N01 HD42845-01	89,734
SODOL, I E.....	DEVELOPMENT OF HIGH-PERFORMANCE RESPIRATORY SPECTROMETER.....	3N01 HR33001-02	70,542
TALMADGE, DAVID W.....	ISOLATION OF HUMAN PERIPHERAL BLOOD MONOCYTES.....	1N01 CB53900-00	48,280
ORGANIZATION TOTAL	11	872,371	
<b>FORT COLLINS</b>			
<b>COLORADO STATE UNIVERSITY ZIP CODE 80521</b>			
JAENKE, ROGER S.....	TOXICOLOGY OF ANTINEOPLASTIC AGENTS.....	3N01 CM12192-05	160,068
LUMB, WILLIAM V.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	2N01 HA42903-01	250,054
MC LEOD, FRANCIS D.....	ULTRASONIC DETECTION OF PERIPHERAL ATHEROSCLEROSIS.....	1N01 HV52965-00	143,280
NISWENDER, GORDON D.....	STUDY OF ENDOCRINE REGULATION OF THE CORPUS LUTEUM.....	2N01 HD92134-14	89,766
ORGANIZATION TOTAL	4	643,168	
<b>GRAND JUNCTION</b>			
<b>ST. MARY'S HOSPITAL ZIP CODE 81501</b>			
SACCOMANNO, GENO.....	MORPHOGENESIS OF LUNG CANCER.....	3N01 CP23233-04	38,642
ORGANIZATION TOTAL	1	38,642	
STATE TOTAL	22	2,095,463	
<b>CONNECTICUT</b>			
<b>FARMINGTON</b>			
<b>UNIVERSITY OF CONNECTICUT HEALTH CENTER ZIP CODE 06032</b>			
BAILIT, HOWARD L.....	COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52459-00	17,483
BIGAZZI, PIERLUIGI E.....	IMMUNOLOGIC STUDIES OF VASECTOMY.....	1N01 HD52842-00	54,315
DOHERTY, NEVILLE.....	COST EFFECTIVENESS OF VARIOUS CRIES PREVENTIVE AGENTS.....	1N01 DE52449-00	123,050
FREER, RICHARD J.....	CHEMOATTRACTANTS FOR LEUCOCYTES IN PERIODONTAL DISEASE.....	1N01 DE52477-00	59,180
GOLD, RONALD.....	CLINICAL EVALUATION OF BACTERIAL POLYSACCHARIDE VACCINES.....	2N01 AI22502-04	60,875
MAHER, JOHN F.....	PERITONEAL PERMEABILITY AND DRUG ENHANCEMENT IN UREMIA.....	1N01 AM52220-00	50,465
OWENS, GUY.....	STUDIES IN BRAIN TUMOR CHEMOTHERAPY.....	2N01 CM12181-05	37,800

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CONNECTICUT—Continued</b>			
TANZER, JASON M .....	PREVENTION OF HUMAN PERIODONTAL PLAQUE .....	5N01 DE42437-01	49,546
VIOLA, MICHAEL V .....	ETIOLOGY OF ALS AND PD IN RNA 'C' TYPE VIRUSES .....	1N01 NS52307-00	66,300
ORGANIZATION TOTAL	9 519,014		
<b>HARTFORD</b>			
<b>CONNECTICUT STATE DEPARTMENT OF HEALTH</b>		<b>ZIP CODE 06115</b>	
CHRISTINE, BARBARA W .....	EXPAND CONNECTICUT'S CERVICAL CANCER SCREENING PROGRAM .....	3N01 CN45074-02	24,660
CHRISTINE, BARBARA W .....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM .....	1N01 CN55266-00	160,309
CHRISTINE, BARBARA W .....	CANCER END RESULTS EVALUATION .....	2N01 CP43203-01	277,459
ORGANIZATION TOTAL	3 462,428		
<b>NEW HAVEN</b>			
<b>HOSPICE, INC.</b>		<b>ZIP CODE 06511</b>	
LACK, SYLVIA .....	DEVELOPMENT AND UTILIZATION OF REHABILITATION RESOURCES .....	1N01 CN55053-00	331,762
ORGANIZATION TOTAL	1 331,762		
<b>MEDICAL FILMS</b>		<b>ZIP CODE 06511</b>	
NOT APPLICABLE .....	PRODUCE 3 MOTION PICTURES .....	1N01 LM54728-00	8,000
ORGANIZATION TOTAL	1 8,000		
<b>YALE UNIVERSITY</b>		<b>ZIP CODE 06520</b>	
BERTINO, JOSEPH R .....	SELECTION AND DESIGN OF PROMISING ANTICANCER AGENTS .....	5N01 CM33711-02	26,378
BOUHUYS, A .....	STUDY OF PREVALENCE OF CHRONIC RESPIRATORY DISEASE .....	2N01 HR42912-01	205,971
CANELLAKIS, E S .....	BIOCHEMICAL SCREENING FOR ANTICANCER AGENTS .....	9N01 CM57029-00	84,000
FELIG, PHILIP .....	GLUCAGON AND AMINO ACIDS IN CARBOHYDRATE METABOLISM .....	3N01 AM42221-01	37,900
GERSHON, RICHARD K .....	STUDY OF THERAPY WITH NEURAMINIDASE-TREATED TUMOR CELLS .....	2N01 CB43865-01	100,631
GERSHON, RICHARD K .....	STUDY OF HUMORAL OR CELLULAR IMMUNOLOGIC RESPONSES .....	2N01 CB43994-01	71,028
MANDEL, HENRY R .....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK .....	1N01 CN55232-00	86,794
MARCHESI, VINCENT T .....	BIOCHEMISTRY AND DIAGNOSTIC USE OF HUMAN TUMOR ANTIGENS .....	2N01 CB43859-01	84,719
MEIGS, J WISTER .....	SUPPORT FOR CANCER EPIDEMIOLOGY PROGRAM .....	2N01 CP33235-03	313,826
PEARSON, HOWARD A .....	STUDY OF SICKLE CELLS .....	2N01 HB22950-05	44,663
RUDDLE, FRANCIS H .....	PROPAGATION OF HAPLOID AND PARTIAL MONOSOMIC CELL LINES .....	9N01 CP55673-00	105,551
SARTORELLI, ALAN C .....	AGENTS AFFECTING PLASMA MEMBRANES .....	1N01 CM53824-00	58,605
SHOPE, ROBERT E .....	TESTING OF ARBOVIRUS RESEARCH REAGENTS .....	2N01 AI42517-01	114,987
SPIRO, HOWARD M .....	THERAPY OF PATIENTS WITH PANCREATIC CARCINOMA .....	2N01 CM43797-02	188,014
SPIRO, HOWARD M .....	THERAPY OF PATIENTS WITH GASTRIC CARCINOMA .....	1N01 CM53843-00	102,200
WHITE, COLIN .....	EPIDEMIOLOGICAL STUDY OF ANTIFERTILITY METHODS .....	1N01 HD52800-00	110,965
ZARET, BARRY L .....	STUDIES IN ISCHEMIC, INFARCTED, AND SCARRED MYOCARDIUM .....	1N01 HV52988-00	333,805
ORGANIZATION TOTAL	17 2,070,037		
<b>STORRS</b>			
<b>UNIVERSITY OF CONNECTICUT</b>		<b>ZIP CODE 06268</b>	
FOX, MARTIN D .....	DEVELOP ULTRASOUND CONCEPT TO DETECT ATHEROSCLEROSIS .....	1N01 HV52963-00	59,156
ORGANIZATION TOTAL	1 59,156		
<b>WATERBURY</b>			
<b>WATERBURY HOSPITAL</b>		<b>ZIP CODE 06720</b>	
WRIGHT, CHARLOTTE C .....	ONCOLOGY NURSING PROGRAMS IN COMMUNITY HOSPITAL .....	2N01 CN45135-01	238,980
ORGANIZATION TOTAL	1 238,980		

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CONNECTICUT—Continued</b>			
<b>WOODBIDGE</b>			
<b>BIO-GANT CORPORATION</b>	<b>ZIP CODE 06525</b>		
JEWETT, WARREN R.....	NEW METHODS FOR PLASMA FRACTIONATION.....	2N01 HB32969-05	232,000
ORGANIZATION TOTAL	1	232,000	
STATE TOTAL	34	3,921,377	
<b>DELAWARE</b>			
<b>WILMINGTON</b>			
<b>WILMINGTON MEDICAL CENTER</b>	<b>ZIP CODE 19699</b>		
WHITNEY, LESLIE W.....	SCREENING FOR DETECTION OF BREAST CANCER.....	2N01 CN45047-01	185,327
WHITNEY, LESLIE W.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45151-01	301,004
WHITNEY, LESLIE W.....	RESERPINE AND BREAST CANCER.....	1N01 CP53553-00	2,074
ORGANIZATION TOTAL	3	488,405	
STATE TOTAL	3	488,405	
<b>DIST OF COL</b>			
<b>WASHINGTON</b>			
<b>AMERICAN BLOOD COMMISSION</b>	<b>ZIP CODE 20036</b>		
CORSON, JOHN J.....	BLOOD BANKING DATA NEEDS AND BLOOD BANKING AUTOMATION.....	1N01 HB53036-00	261,644
ORGANIZATION TOTAL	1	261,644	
<b>AMERICAN INSTITUTES FOR RESEARCH</b>	<b>ZIP CODE 20016</b>		
RUDOV, MELVIN H.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	1N01 CN55070-00	149,027
ORGANIZATION TOTAL	1	149,027	
<b>AMERICAN NATIONAL RED CROSS</b>	<b>ZIP CODE 20006</b>		
JAMIESON, GRAHAM A.....	ESTABLISHMENT OF HEPATITIS TESTING LABORATORY.....	2N01 AI22522-03	173,000
ORGANIZATION TOTAL	1	173,000	
<b>ASSOCIATION OF AMERICAN MEDICAL COLLEGES</b>	<b>ZIP CODE 20036</b>		
LARSON, THOMAS A.....	TABULATION OF MEDICAL SCHOOL DATA.....	1N01 OD52130-00	32,965
ORGANIZATION TOTAL	1	32,965	
<b>CHILDREN'S HOSPITAL NATIONAL MEDICAL CENTER</b>	<b>ZIP CODE 20009</b>		
PARROTT, ROBERT H.....	STUDY OF RESPIRATORY DISEASE.....	2N01 AI12091-08	198,336
ORGANIZATION TOTAL	1	198,336	
<b>COUNCIL OF GRADUATE SCHOOLS IN THE UNITED STATES</b>	<b>ZIP CODE 20036</b>		
PAGE, J BOYD.....	COST MODELS OF GRADUATE EDUCATION IN BIOSCIENCE.....	3N01 RG42176-01	15,735
ORGANIZATION TOTAL	1	15,735	
<b>COURTESY ASSOCIATES</b>	<b>ZIP CODE 20006</b>		
MORANDIERE, ANNE.....	SUPPORT CONFERENCES FOR NATIONAL CANCER INSTITUTE.....	1N01 CB53891-00	477,656
NOT APPLICABLE.....	WORKSHOP ON DIET AND NUTRITION.....	1N01 CP53534-00	6,910



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>DIST OF COL—Continued</b>			
STAMFELI, SHEILA.....	CONFERENCE ON THE GENETICS OF HUMAN CANCER.....	1N01 CP53538-00	3,000
STAMFELI, SHEILA.....	BIOLOGICAL MODELS SEGMENT WORKSHOP.....	1N01 CP55627-00	3,003
TO BE APPOINTED.....	WORKING CONFERENCE—VIRUS CANCER PROGRAM, NCI.....	1N01 CP53514-00	26,167
TO BE APPOINTED.....	CONFERENCES ON THE CARCINOGENICITY OF CYCLAMATE.....	1N01 CP53569-00	4,000
TO BE APPOINTED.....	PROSTATE WORKSHOP.....	1N01 CP55628-00	2,865
TO BE APPOINTED.....	PLANNING CONFERENCE—COLON CANCER.....	1N01 CP55631-00	5,990
TO BE APPOINTED.....	STRUCTURE/ACTIVITY CARCINOGENESIS SEMINAR.....	1N01 CP55632-00	500
TO BE APPOINTED.....	THIRD CARCINOGENESIS COLLABORATIVE CONFERENCE.....	1N01 CP55638-00	47,594
TO BE APPOINTED.....	SUPPORT 2-DAY CONFERENCE.....	1N01 CP55642-00	11,674
TO BE APPOINTED.....	CARCINOGENESIS WORKSHOP.....	1N01 CP55658-00	1,000
TO BE APPOINTED.....	PROGRAM REVIEW MEETINGS.....	1N01 CP55684-00	11,750
TO BE APPOINTED.....	FOURTH ANNUAL CARCINOGENESIS COLLABORATIVE MEETING.....	1N01 CP55700-00	50,000
TO BE APPOINTED.....	PROGRAM REVIEW MEETING/BIOASSAY.....	1N01 CP55716-00	500
ORGANIZATION TOTAL	15	652,609	
<b>GEORGE WASHINGTON UNIVERSITY ZIP CODE 20006</b>			
ALFORD, T CRANDALL.....	IMMUNE RESPONSES TO SOLUBLE MEMBRANE ANTIGENS.....	3N01 CP23251-04	85,670
DAVIS, DAVID O.....	CLINICAL EVAL. OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY.....	5N01 CB43981-01	90,293
HOLLINSHEAD, ARIEL C.....	STUDY ON MALIGNANT AND NONMALIGNANT CELLS.....	3N01 CB92176-10	176,383
LA ROSA, JOHN C.....	SUPPORT FOR LIPID RESEARCH CLINIC CENTER.....	2N01 HV32931-05	1,272,000
NOT APPLICABLE.....	DEVELOPMENT OF MEDLEARN SYSTEM.....	2N01 LM44701-03	46,547
RIOS, JORGE.....	ECG CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52941-00	71,128
SHAW, LAWRENCE W.....	RISK OF SERIOUS COMPLICATIONS IN IUD WEARERS.....	1N01 HD52852-00	299,837
STRAW, JAMES A.....	SOLID TUMOR PHARMACOLOGY IN LABORATORY ANIMALS.....	5N01 CM12206-06	68,987
ZOOK, BERNARD C.....	PROVIDE/MAINTAIN ANIMALS FOR VIRAL ANTISERUM PRODUCTION.....	2N01 AI42544-01	2,250
ORGANIZATION TOTAL	9	2,113,095	
<b>GEORGETOWN UNIVERSITY ZIP CODE 20007</b>			
ABERNATHY, MARGARET R.....	EARLY DETECTION OF CANCER OF THE BREAST.....	2N01 CN45062-02	183,188
BINDER, RICHARD A.....	SUPPLY OF BLOOD AND TISSUE CANCER SPECIMENS.....	3N01 CP33404-02	6,000
CHAMBERS, ROBERT W.....	VIRAL STUDIES IN SUPPORT OF CANCER CHEMOTHERAPY PATIENTS.....	2N01 CM12123-08	181,285
FELLER, WILLIAM F.....	ETIOLOGY OF HUMAN CANCER OF THE BREAST.....	3N01 CP50053-20	8,000
HIMMELSBACH, CLIFTON K.....	SUPPORT SERVICES FOR EASTERN COOPERATIVE ONCOLOGY GROUP.....	3N01 CM33745-02	207,560
KATZ, EDWARD.....	PREPARATION OF ACTINOMYCIN ANALOGS.....	2N01 CM43732-02	69,162
MUSHKIN, SELMA J.....	TRENDS IN COST OF DISEASE RELATED TO BIOMEDICAL RESEARCH.....	1N01 OD52121-00	48,691
RIDLEY, JEANNE C.....	STUDY OF LOW-FERTILITY COHORTS.....	3N01 HD32799-03	22,913
RUBIN, MARTIN.....	SYSTEM FOR LABORATORY SAMPLES.....	3N01 GM22107-06	6,144
SREEVALSAN, T.....	EFFECTS ON CULTURED CELLS BY LIPOPHILIC COMPOUNDS.....	1N01 NS52319-00	84,782
SVERHA, SUSAN.....	ONCOLOGY NURSING PROGRAMS IN MEDICAL CENTERS.....	1N01 CN55240-00	132,089
ORGANIZATION TOTAL	11	949,814	
<b>GORGAS MEMORIAL INSTITUTE OF TROPICAL AND PREVENTIVE MEDICINE ZIP CODE 20006</b>			
GALINDO, PEDRO.....	SUPPORT FOR VIROLOGY LABORATORY.....	2N01 AI22514-05	292,500
ORGANIZATION TOTAL	1	292,500	
<b>HERNER &amp; COMPANY ZIP CODE 20037</b>			
NOT APPLICABLE.....	INDEXING OF BIOMEDICAL LITERATURE FOR MEDLARS.....	2N01 LM34717-03	120,000
ORGANIZATION TOTAL	1	120,000	
<b>HOWARD UNIVERSITY ZIP CODE 20001</b>			
FUNDERBURK, WILLIAM W.....	STUDY OF DIAGNOSIS OF CANCER OF THE BREAST.....	2N01 CP43287-01	34,578
HASTINGS, ALICIA E.....	DEMONSTRATION OF CANCER REHABILITATION FACILITY.....	1N01 CN55300-00	400,585
KAPADIA, GOVIND J.....	POTENTIAL CARCINOGENS FROM PLANTS.....	2N01 CP33266-04	138,403
WHITE, JACK E.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55230-00	85,259
WOOD, DON H.....	PROGNOSIS AFTER STROKE.....	5N01 NS42329-01	139,006
ORGANIZATION TOTAL	5	797,831	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>DIST OF COL—Continued</b>			
<b>LEONARD WOOD MEMORIAL      ZIP CODE 20037</b>			
REICH, CLAUDE V.....	EVALUATE CHEMOTHERAPEUTIC AGENTS IN LEPROSY.....	1N01 A152509-00	149,993
ORGANIZATION TOTAL	1      149,993		
<b>MEDICAL RESEARCH ASSOCIATES      ZIP CODE 20005</b>			
GOLDSTEIN, ROBERT A.....	TEST MYCOBACTERIAL FRACTIONS BY LYMPHOCYTE BLASTOGENESIS.....	1N01 A152508-00	4,500
GOLDSTEIN, ROBERT A.....	TEST MYCOBACTERIAL FRACTIONS BY LYMPHOCYTE BLASTOGENESIS.....	1N01 A152522-00	4,900
GOLDSTEIN, ROBERT A.....	TEST MYCOBACTERIAL FRACTIONS BY LYMPHOCYTE BLASTOGENESIS.....	1N01 A152528-00	29,400
ORGANIZATION TOTAL	3      38,800		
<b>MEDICAL SERVICE CONSULTANTS      ZIP CODE 20036</b>			
BAUER, WILLIAM.....	SUPPORT SERVICES FOR THE NATIONAL COMMISSION ON DIABETES.....	1N01 AM52206-00	295,734
ORGANIZATION TOTAL	1      295,734		
<b>NATIONAL ACADEMY OF SCIENCES      ZIP CODE 20418</b>			
ALLEN, LEROY.....	CANCER IN JAPANESE ATOMIC BOMB SURVIVORS.....	2N01 CP43202-01	184,763
DUNHAM, CHARLES L.....	SUPPORT FOR INTERNATIONAL COUNCIL OF PATHOLOGY SOCIETIES.....	2N01 C035410-08	4,815
DUNHAM, CHARLES L.....	SUPPORT FOR INTL COUNCIL OF SOCIETIES OF PATHOLOGY.....	3N01 C035412-06	158,745
DUNHAM, CHARLES L.....	SUPPORT ACTIVITIES OF THE DRUG RESEARCH BOARD.....	2N01 GM40044-1817	4,455
DUNHAM, CHARLES L.....	SUPPORT ACTIVITIES OF THE DRUG RESEARCH BOARD.....	2N01 GM40044-2405	65,893
GARDNER, PHYLLIS A.....	SUPPORT FOR INTERNATIONAL UNION AGAINST CANCER.....	3N01 C025409-16	21,900
HRUBEC, ZDENEK.....	NAS-NRC TWIN REGISTRY.....	1N01 HV53010-00	64,590
JABLON, SEYMOUR.....	EPIDEMIOLOGICAL STUDIES.....	9N01 CP53573-00	102,000
JABLON, SEYMOUR.....	CONTINUATION OF THE MEDICAL FOLLOW-UP AGENCY STUDIES.....	1N01 OD52138-00	131,960
JOHNSON, PAUL E.....	EVALUATION OF HUMAN NUTRIENT REQUIREMENTS.....	2N01 AM42209-02	25,850
KELLY, WILLIAM C.....	EFFECT OF NIH TRAINING PROGRAMS ON MEDICAL MANPOWER.....	2N01 OD40044-0560	86,574
KELLY, WILLIAM C.....	NEED FOR BIOMEDICAL AND BEHAVIORAL RESEARCH PERSONNEL.....	1N01 OD52109-00	331,486
NORMAN, JAMES.....	AMYTROPHIC LATERAL SCLEROSIS.....	2N01 NS52315-03	19,535
NOT APPLICABLE.....	GEOCHEMICAL ENVIRONMENT ON HEALTH—WORKSHOP.....	2N01 CP45616-01	30,000
NOT APPLICABLE.....	SUPPORT FOR JOINT US-USSR SYMPOSIUM ON NUCLEIC ACIDS.....	1N01 CP53563-00	34,750
PARKER, H S.....	ADVISORY SERVICES TO THE TOXICOLOGY INFORMATION PROGRAM.....	2N01 LM40044-1247	34,000
ROSS, PHILIP.....	EXPOSURE TO HERBICIDES AND BIRTH DEFECTS IN VIETNAM.....	1N01 ES52102-00	5,000
SHEPPARD, HARVEY E.....	PARTIAL SUPPORT OF VTH INTERNATIONAL BIOPHYSICS CONGRESS.....	1N01 AM52201-00	5,000
SIMOPOULOS, ARTEMIS P.....	EVALUATION OF TESTING FOR CYSTIC FIBROSIS.....	1N01 AM52200-00	50,000
SIMOPOULOS, ARTEMIS P.....	RESEARCH IN MATERNAL AND CHILD HEALTH.....	1N01 HD52818-00	60,000
SIMOPOULOS, ARTEMIS P.....	EVALUATION OF TESTING FOR CYSTIC FIBROSIS.....	1N01 HR52904-00	50,000
SIMOPOULOS, ARTEMIS P.....	STUDY OF MANPOWER RESOURCES.....	2N01 NS52314-06	25,000
SPENDEL, WILLIAM.....	IMPROVE NOMENCLATURE SPECS FOR BIOCHEMICAL COMPOUNDS.....	1N01 GM52153-00	17,800
VOSBURG, ALBERT.....	INTERNATIONAL CONFERENCE ON DNA RECOMBINANTS.....	1N01 OD52103-00	100,000
WHITE, ROBERT R.....	FORUM ON RESEARCH WITH HUMANS: VALUES IN CONFLICT.....	1N01 OD52116-00	59,250
YAGER, ROBERT H.....	SUPPORT OF INSTITUTE OF LABORATORY ANIMAL RESOURCES.....	9N01 CM53850-00	20,000
YAGER, ROBERT H.....	CONFERENCES ON LABORATORY ANIMAL RESOURCES.....	9N01 CM57013-00	42,000
YAGER, ROBERT H.....	SUPPORT OF THE FIFTH INTERNATIONAL BIOPHYSICS CONGRESS.....	1N01 GM52136-00	13,314
YAGER, ROBERT H.....	SUPPORT WORK OF INSTITUTE OF LABORATORY ANIMAL RESOURCES.....	1N01 RR52128-00	98,000
YAGER, ROBERT H.....	ESTABLISH A COMMITTEE ON VETERINARY MEDICAL SCIENCES.....	1N01 RS52125-00	15,000
ORGANIZATION TOTAL	30      1,861,680		
<b>PAN AMERICAN HEALTH ORGANIZATION      ZIP CODE 20037</b>			
KLEIN, ROBERT E.....	A STUDY OF NUTRITION AND DEVELOPMENT.....	3N01 HD50640-16	727,512
MATA, LEONARDO J.....	ANALYSIS OF DATA FROM ECOLOGICAL STUDY IN GUATEMALA.....	3N01 HD22737-05	5,213
MELENDEZ, L V.....	ESTABLISH A NONHUMAN PRIMATE PROGRAM.....	1N01 RS52151-00	86,491
ORGANIZATION TOTAL	3      819,216		
<b>RESOURCES FOR THE FUTURE      ZIP CODE 20036</b>			
RIDKER, RONALD G.....	STUDY OF CONSEQUENCES OF POPULATION CHANGE.....	3N01 HD42805-03	82,413
ORGANIZATION TOTAL	1      82,413		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>DIST OF COL—Continued</b>			
<b>ROY LITTLEJOHN ASSOCIATES      ZIP CODE 20005</b>			
CATES, MARJORIE.....	SICKLE CELL EDUCATION PROGRAM.....	1N01 HB53033-00	150,000
ORGANIZATION TOTAL	1      150,000		
<b>TELE SEC      ZIP CODE 20006</b>			
NOT APPLICABLE.....	PREPARATION AND MAINTENANCE OF LIBRARY MATERIALS.....	3N01 LM34737-03	45,500
NOT APPLICABLE.....	FILE MAINTENANCE.....	2N01 LM44741-02	62,789
TARVER, HELGA.....	BINDERY PREPARATION AND SERIALS MAINTENANCE.....	1N01 LM54727-00	92,359
TARVER, HELGA.....	DATA PREPARATION FOR A MASTER SERIAL SYSTEM.....	4N01 LM54743-00	91,077
TARVER, HELGA.....	PROOFREADING AND UPDATING MEDLARS II NAME AUTHORITY FILE.....	4N01 LM54744-00	58,316
ORGANIZATION TOTAL	5      350,041		
<b>U.S. SMALL BUSINESS ADMINISTRATION      ZIP CODE 20416</b>			
BUFFINGTON, THOMAS.....	SUPPORT SERVICES FOR THE DCCR COMMUNICATIONS BRANCH.....	1N01 CN55317-00	286,355
BUFFINGTON, THOMAS.....	SERVICES FOR THE OFFICE OF CANCER COMMUNICATIONS.....	1N01 C055316-00	289,722
TING, ROBERT C.....	SUPPORTIVE SERVICES IN VIROLOGY AND TISSUE CULTURE.....	3N01 CM43719-01	157,303
ORGANIZATION TOTAL	3      733,380		
<b>U.S. SMITHSONIAN INSTITUTION      ZIP CODE 20560</b>			
FOSTER, WILLIS R.....	NCP ANALYSIS OF 1975 GRANTS AND CONTRACTS.....	1N01 C055196-00	118,766
LAKAMP, DAVID W.....	INFORMATION SYSTEM ON TOXICOLOGY AND RELATED PROGRAMS.....	1N01 LM54742-00	76,888
PAWSON, DAVID L.....	REGISTRY OF TUMORS IN LOWER ANIMALS.....	2N01 CB33874-02	113,635
ORGANIZATION TOTAL	3      309,289		
<b>UNITED STATES BOOK EXCHANGE      ZIP CODE 20018</b>			
BALL, ALICE D.....	FILLING THE GAPS IN THE MISSING NLM COLLECTION.....	2N01 LM14731-07	15,000
ORGANIZATION TOTAL	1      15,000		
<b>URBAN INSTITUTE      ZIP CODE 20037</b>			
BERGSMAN, JOEL.....	POPULATION STUDIES IN METROPOLITAN AREAS.....	3N01 HD42807-02	18,030
ORGANIZATION TOTAL	1      18,030		
<b>WASHINGTON HOSPITAL CENTER      ZIP CODE 20010</b>			
REBA, RICHARD C.....	RADIOISOTOPE LABELING OF BLEOMYCIN.....	2N01 CM43710-03	37,000
ORGANIZATION TOTAL	1      37,000		
<b>XEROX CORPORATION-REPRODUCTION CENTER      ZIP CODE 20016</b>			
NOT APPLICABLE.....	CARD CATALOG REPRODUCTION AND DISTRIBUTION.....	2N01 LM24724-05	15,000
ORGANIZATION TOTAL	1      15,000		
STATE TOTAL	103      10,632,132		

## FLORIDA

### FORT LAUDERDALE

<b>LEO GOODWIN INSTITUTE FOR CANCER RESEARCH      ZIP CODE 33314</b>			
HOWLAND, I W, JR.....	OPERATION OF A GERMFREE RODENT COLONY.....	1N01 CM53814-00	428,749
WARREN, JOEL.....	ESTABLISH A PRIMARY GENETIC PRODUCTION CENTER.....	3N01 CM33729-02	9,420
ORGANIZATION TOTAL	2      438,169		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>FLORIDA—Continued</b>			
<b>GAINESVILLE</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA      ZIP CODE 32611</b>			
BARD, DAVID S.....	STUDY OF PREPARATION OF CONJUGATED ESTROGENS.....	2N01 HD32761-02	60,358
COHEN, JOEL B.....	ATTITUDINAL FACTORS IN CONTRACEPTIVE DECISIONS.....	1N01 HD52805-00	59,710
DAWSON, WILLIAM W.....	STUDY OF MATERIALS FOR A SENSORY PROSTHESIS.....	2N01 NS12286-04	69,148
MORELAND, ALVIN F.....	VIRAL INDUCED MALFORMATIONS IN RHESUS MONKEYS.....	1N01 NS52318-00	167,936
SLOAN, FRANK A.....	INFECTIONS AND ALLERGIC DISEASE IMPACT ON HEALTH.....	2N01 AI42558-04	51,469
SMITH, RICHARD T.....	PLASMA THERAPY OF OSTEOSARCOMA.....	1N01 CB53933-00	100,595
WALDMAN, ROBERT H.....	EVALUATION OF EFFECT OF BGG THERAPY IN LUNG CANCER.....	2N01 CB43857-01	101,320
YOST, WILLIAM A.....	AUDITORY SENSITIVITY & DISCRIMINATION IN YOUNG CHILDREN.....	1N01 NS52313-00	84,849
ORGANIZATION TOTAL	8      695,385		
<b>JACKSONVILLE</b>			
<b>FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES—DIVISION OF HEALTH      ZIP CODE 32201</b>			
EDMAN, JOHN D.....	CERTIFICATION OF ARTHROPOD BLOOD-MEAL ANTISERA.....	3N01 AI42521-01	7,387
FARRELL, E. W.....	STUDY OF EFFICACY OF AMINE FLUORIDE MOUTH RINSE.....	2N01 DE32427-03	79,634
ORGANIZATION TOTAL	2      87,021		
<b>ST. VINCENT'S MEDICAL CENTER      ZIP CODE 32204</b>			
MC CLOW, MARVIN.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	1N01 CN55210-00	177,000
MC CLOW, MARVIN V.....	RESERPINE AND BREAST CANCER.....	1N01 CP53550-00	1,400
ORGANIZATION TOTAL	2      178,400		
<b>MELBOURNE</b>			
<b>DBA SYSTEMS, INC.      ZIP CODE 32901</b>			
TO BE APPOINTED.....	DEVELOPMENT OF A PHOTOGRAMMETRIC FUNDUS CAMERA.....	1N01 EY52156-00	125,517
ORGANIZATION TOTAL	1      125,517		
<b>MIAMI</b>			
<b>FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES—DADE COUNTY HEALTH DEPARTMENT      ZIP CODE 33125</b>			
SASLAN, MILTON S.....	STUDY OF MULTIPLE-RISK FACTOR IN CORONARY HEART DISEASE.....	2N01 HV42933-02	347,346
ORGANIZATION TOTAL	1      347,346		
<b>PAPANICOLAOU CANCER RESEARCH INSTITUTE      ZIP CODE 33136</b>			
ALTMAN, NORMAN H.....	BREEDING RHESUS AND SQUIRREL MONKEYS.....	1N01 RS52131-00	319,787
LEIF, ROBERT C.....	STAINING GYNECOLOGIC CYTOPATHOLOGIC SPECIMENS.....	2N01 CB43962-02	150,000
RYAN, UNA S.....	STUDY OF FINE STRUCTURE OF NORMAL LUNG CELLS.....	2N01 HR33015-01	144,030
ZUCKER, ROBERT M.....	STUDY OF KINETICS OF TUMOR CELLS.....	2N01 CB33861-01	110,000
ORGANIZATION TOTAL	4      723,817		
<b>UNIVERSITY OF MIAMI      ZIP CODE 33152</b>			
BLANK, HARVEY.....	DRUG EFFICACY STUDY MUCOCUTANEOUS HERPES INFECTIONS.....	1N01 AI52531-00	96,732
GUNN, SAMUEL A.....	A COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55243-00	317,986
KALSER, MARTIN H.....	THERAPY OF PATIENTS WITH PANCREATIC CARCINOMA.....	2N01 CM43800-03	203,744
LAZZARA, RALPH.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52928-00	125,557
MACHEMER, ROBERT.....	EVALUATION OF EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY52142-00	103,107
PARRISH, FREDERICK W.....	COMPOSITION OF RESPIRATORY MUCUS.....	1N01 HR52953-00	159,461
ROSENBERG, EUGENE B.....	COLLECTION OF TUMOR AND SERUM SPECIMENS.....	2N01 CB43861-03	155,700
SIGEL, M MICHAEL.....	TEST FOR CYTOTOXICITY OF CHEMICAL AGENTS.....	2N01 CM02225-09	116,298
SIGEL, M MICHAEL.....	IMMUNODEPRESSANT ACTIVITY OF ANTICANCER DRUGS.....	1N01 CM57041-00	74,209

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>FLORIDA—Continued</b>			
SIGEL, M MICHAEL .....	IMMUNOLOGICAL STUDIES ON ANIMAL BREAST CARCINOMA .....	9N01 CP53532-00	115,014
WEINSTEIN, GERALD D .....	CLINICAL EVALUATION OF TOPICAL DRUGS FOR PSORIASIS .....	1N01 AM52223-00	132,042
ORGANIZATION TOTAL	11 1,599,850		
<b>MIAMI BEACH</b>			
MIAMI HEART INSTITUTE	ZIP CODE 33140		
GOSSELIN, AUTHUR J .....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY .....	2N01 HV32979-05	147,053
ORGANIZATION TOTAL	1 147,053		
MOUNT SINAI MEDICAL CENTER	ZIP CODE 33140		
BERNSTEIN, WILLIAM H .....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY .....	1N01 HV52933-00	167,878
ORGANIZATION TOTAL	1 167,878		
<b>SAINT PETERSBURG</b>			
LIFE SCIENCES, INC.	ZIP CODE 33710		
BEARD, JOSEPH W .....	STUDY OF AVIAN LEUKOSIS VIRUSES .....	2N01 CP33291-02	418,825
FARROW, WENDALL M .....	PRODUCTION AND MAINTENANCE OF GERMFREE ANIMALS .....	2N01 CP33210-02	389,924
FRANKEL, JACK W .....	STUDY OF THE MAREK'S DISEASE HERPES VIRUS .....	3N01 CP33205-03	510,130
ORGANIZATION TOTAL	3 1,318,879		
<b>TALLAHASSEE</b>			
STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY	ZIP CODE 32306		
BOUTWELL, RICHARD .....	SELF-INSTRUCTIONAL UNITS IN THE BASIC SCIENCES .....	1N01 LM54730-00	78,058
WINCHESTER, JOHN W .....	RESPIRATORY IRRITANT ASSOCIATED RED TIDES .....	1N01 ES52113-00	28,296
ORGANIZATION TOTAL	2 106,364		
<b>TAMPA</b>			
ST. JOSEPH'S HOSPITAL	ZIP CODE 33607		
SZAKACS, JENO E .....	STUDY OF HUMAN SARCOMA AND THEIR POSSIBLE VIRAL ETIOLOGY .....	2N01 CP33393-03	60,000
ORGANIZATION TOTAL	1 60,000		
STATE TOTAL	39 5,995,679		
<b>GEORGIA</b>			
<b>ATHENS</b>			
UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA	ZIP CODE 30601		
MC CALL, JOHN W .....	FILARIASIS REPOSITORY RESEARCH SERVICE .....	9N01 AI52519-00	57,961
ORGANIZATION TOTAL	1 57,961		
<b>ATLANTA</b>			
EMORY UNIVERSITY	ZIP CODE 30322		
BROWN, ROBERT L .....	BREAST CANCER DETECTION DEMONSTRATION PROJECT .....	9N01 CN55277-00	217,511
EGAN, ROBERT L .....	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER .....	1N01 CN55179-00	223,224
GONNELLA, CARMELLA .....	EFFECTIVENESS OF CANCER REHABILITATION SYSTEMS .....	5N01 CN45134-02	326,373
HALL, DALLAS W .....	EFFECTS OF CONTRACEPTIVE STEROIDS ON BLOOD PRESSURE .....	1N01 HD52831-00	214,400

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>GEORGIA—Continued</b>			
HALSTEAD, CHARLES L.....	PRODUCTION OF MEDIATED, SELF-INSTRUCTIONAL DENTAL COURSE.....	2N01 LM34726-02	54,539
HERSH, THEODORE.....	EVALUATION OF ASSAYS OF ASSOCIATED ANTIGENS.....	2N01 CB43887-01	52,322
HUGULEY, CHARLES M.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	1N01 CN55131-00	474,742
KALISH, RUTH A.....	DEVELOPMENT OF CANCER TRAINING PROGRAMS FOR THERAPISTS.....	5N01 CN45045-02	105,716
MC CLURE, HAROLD M.....	SUPPORT FOR COLONY OF MONKEYS.....	2N01 CP33343-02	28,000
MC CLURE, HAROLD M.....	INDUCE ORAL FACIAL MALFORMATIONS IN THE RHESUS MONKEY.....	1N01 DE52452-00	101,520
MC GARITY, WILLIAM C.....	ENTEROSTOMAL THERAPY EDUCATION PROGRAM.....	5N01 CN45102-01	58,963
NAHMIAS, ANDRE J.....	CELLULAR IMMUNITY STUDIES TO HERPES SIMPLEX ANTIGENS.....	2N01 CP43393-01	172,624
NAHMIAS, ANDRE J.....	STUDIES OF HERPES VIRUS INDUCTION OF CANCER.....	3N01 NS22301-03	73,811
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY FOR THE SOUTHEASTERN REGION.....	2N01 LM24712-03	266,779
NOT APPLICABLE.....	PRODUCE TWO SELF-INSTRUCTIONAL SEGMENTS IN NURSING.....	1N01 LM54702-00	45,600
POPOVIC, VOJIN P.....	PRESERVATION OF GRANULOCYTES FOR TRANSFUSION.....	3N01 HB42950-04	63,300
SCHLANT, ROBERT C.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52917-00	157,823
TUTTLE, ELBERT P.....	COOPERATIVE STUDY OF HYPERTENSION.....	3N01 HV22938-08	31,577
VOGEL, CHARLES L.....	EVALUATION OF ASSAYS OF ASSOCIATED ANTIGENS.....	2N01 CB43888-01	26,545
VOGEL, CHARLES L.....	STUDY OF HORMONE THERAPY PLUS CHEMOTHERAPY.....	2N01 CB43916-01	35,000
VOGEL, CHARLES L.....	PHASE II CHEMOTHERAPY STUDIES.....	2N01 CM43764-01	9,760
ORGANIZATION TOTAL	21 2,740,129		
<b>GEORGIA BAPTIST HOSPITAL ZIP CODE 30312</b>			
LETTON, A HAMBLIN.....	RESERPINE AND BREAST CANCER.....	1N01 CP53541-00	1,595
ORGANIZATION TOTAL	1 1,595		
<b>GEORGIA DEPARTMENT OF HUMAN RESOURCES ZIP CODE 30334</b>			
LANDRUM, JACK M.....	EXPANSION OF GEORGIA CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55204-00	179,294
ORGANIZATION TOTAL	1 179,294		
<b>INDIVIDUAL AWARD—DRATH, BILL ZIP CODE 30309</b>			
DRATH, BILL.....	MEDICAL ILLUSTRATION SERVICES.....	1N01 LM54734-00	12,600
ORGANIZATION TOTAL	1 12,600		
<b>MEDICAL ASSOCIATION OF GEORGIA ZIP CODE 30309</b>			
COONEY, JAMES P.....	THIRD NATIONAL CANCER SURVEY.....	3N01 CP90047-12	4,767
ORGANIZATION TOTAL	1 4,767		
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA INSTITUTE OF TECHNOLOGY ZIP CODE 30332</b>			
CRENSHAW, J W.....	POLYGENIC ASSAY FOR INDUCED POINT MUTATIONS IN MICE.....	1N01 ES52135-00	76,578
POWERS, JAMES C.....	SYNTHESIS OF ELASTASE INHIBITORS.....	3N01 HR42939-01	2,100
ORGANIZATION TOTAL	2 78,678		
<b>AUGUSTA</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA ZIP CODE 30902</b>			
BLACK, OWEN.....	POTENTIAL FOR METABOLIC ACTIVATION IN ANIMAL PANCREAS.....	1N01 CP55656-00	78,588
BURNETT, GEORGE A.....	SCREENING ANTIPLAQUE AGENTS AND FOOD ADDITIVES.....	1N01 DE52483-00	162,000
HUISMAN, TITUS H.....	CHROMATOGRAPHIC SCREENING FOR HEMOGLOBINOPATHIES.....	2N01 HB33007-02	55,033
MAHESH, VIRENDRA B.....	STUDY OF STEROIDAL ORAL CONTRACEPTIVES.....	3N01 HD12297-07	15,887
SCOTT, DAVID F.....	STUDY OF NEOPLASTIC MAMMARY-GLAND TISSUES.....	2N01 CB33909-03	74,900
ORGANIZATION TOTAL	5 386,408		
<b>CLAXTON</b>			
<b>EVANS COUNTY HEALTH DEPARTMENT ZIP CODE 30417</b>			
HAMES, CURTIS G.....	EFFECTS OF CONTRACEPTIVE STEROIDS ON BLOOD PRESSURE.....	1N01 HD52830-00	154,899
HAMES, CURTIS G.....	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION.....	3N01 HV12434-06	312,370



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>GEORGIA—Continued</b>			
ORGANIZATION TOTAL	2	467,269	
STATE TOTAL	35	3,928,701	
<b>HAWAII</b>			
<b>HONOLULU</b>			
<b>HAWAII DEPARTMENT OF HEALTH ZIP CODE 96801</b>			
QUISENBERRY, WALTER B.....	PLANNING FOR A CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55208-00	50,000
ORGANIZATION TOTAL	1	50,000	
<b>KUAKINI MEDICAL CENTER ZIP CODE 96817</b>			
STEMMERMANN, GRANT N.....	STUDY OF CANCER DATA IN JAPAN-HAWAII POPULATION.....	2N01 CP33216-05	390,057
STEMMERMANN, GRANT N.....	DATA COLLECTION IN CLINICAL PATHOLOGY AND MORBID ANATOMY.....	9N01 HV53009-00	169,717
ORGANIZATION TOTAL	2	559,774	
<b>PACIFIC HEALTH RESEARCH INSTITUTE ZIP CODE 96813</b>			
GILBERT, FRED I, JR.....	SCREENING FOR DETECTION OF BREAST CANCER.....	2N01 CN45046-01	171,966
GILBERT, FRED I, JR.....	RESERPINE AND BREAST CANCER.....	1N01 CP53554-00	1,200
MC NAMARA, JOSEPH J.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52936-00	124,861
ORGANIZATION TOTAL	3	298,027	
<b>ST. FRANCIS HOSPITAL ZIP CODE 96817</b>			
LAU, THOMAS K L.....	DEVELOPMENT OF CANCER REHABILITATION SERVICES.....	5N01 CN45118-01	186,256
LAU, THOMAS K L.....	AT-HOME REHABILITATION PROGRAMS.....	1N01 CN55201-00	236,803
ORGANIZATION TOTAL	2	423,059	
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA ZIP CODE 96822</b>			
GUBLER, DUANE.....	STUDY OF INFECTIOUS DISEASES IN THE PACIFIC.....	3N01 AI02228-06	168,728
HADFIELD, MICHAEL G.....	DEVELOPMENT OF LABORATORY MARICULTURE TECHNIQUES.....	5N01 RR42168-02	46,284
HIROHATA, TOMIO.....	DIET AND NONCONTRACEPTIVE ESTROGENS IN BREAST CANCER.....	1N01 CB53884-00	100,000
PIETTE, LAWRENCE H.....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM.....	1N01 CN55267-00	135,950
PIETTE, LAWRENCE H.....	OPERATION OF A GERMFREE RODENT COLONY.....	9N01 CP53511-00	454,193
SAGAWA, YONEO.....	COLLECTION OF INDIGENOUS AND EXOTIC PLANTS.....	5N01 CM33747-06	79,359
WORTH, ROBERT M.....	COLLECTION AND ANALYSIS OF DATA ON LEPROSY.....	1N01 AI52507-00	7,785
YASUNOBU, KERRY T.....	SEPARATION AND CHARACTERIZATION OF LUNG ELASTIN.....	2N01 HR42944-01	55,160
ORGANIZATION TOTAL	8	1,047,459	
STATE TOTAL	16	2,378,319	
<b>IDAHO</b>			
<b>BOISE</b>			
<b>ST. LUKE'S HOSPITAL ZIP CODE 83702</b>			
DAWSON, JOHN J.....	PSYCHOSOCIAL PROBLEMS, REHABILITATION OF CANCER PATIENTS.....	1N01 CN55189-00	123,681
WARD, ELISABETH B.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	9N01 CN55305-00	245,000
WARD, ELISABETH B.....	RESERPINE AND BREAST CANCER.....	1N01 CP53546-00	3,385
ORGANIZATION TOTAL	3	372,066	
STATE TOTAL	3	372,066	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ILLINOIS</b>			
<b>CHICAGO</b>			
<b>AMERICAN COLLEGE OF RADIOLOGY ZIP CODE 60606</b>			
LESTER, RICHARD G.....	COORDINATION OF MAMMOGRAPHY EDUCATION PROGRAMS.....	1N01 CN55177-00	131,321
LESTER, RICHARD G.....	MAMMOGRAPHY TEACHING MATERIALS IN DCCR PROGRAMS.....	1N01 CN55275-00	250,000
PRESENT, ARTHUR J.....	METHOD OF PREPARATION PREPARATORY TO COLONOSCOPY.....	2N01 CB43974-01	122,806
VENET, LOUIS.....	CONFERENCE TO DETECT AND TREAT EARLY BREAST CANCER.....	1N01 CN55217-00	82,500
ORGANIZATION TOTAL	4 586,627		
<b>AMERICAN COLLEGE OF SURGEONS ZIP CODE 60611</b>			
BERGAN, JOHN J.....	DEVELOPMENT OF TRANSPLANTATION REGISTRY.....	3N01 JT90095-09	192,400
ORGANIZATION TOTAL	1 192,400		
<b>AMERICAN DENTAL ASSOCIATION ZIP CODE 60611</b>			
GIFT, HELEN C.....	STUDY OF METHODS OF DELIVERING CARIES PREVENTION.....	2N01 DE32423-04	65,843
HEFFERREN, JOHN J.....	STUDY OF TECHNIQUES FOR DETERMINING FLUORIDE CONTENT.....	5N01 DE32428-01	28,650
ORGANIZATION TOTAL	2 94,493		
<b>CHICAGO HEART ASSOCIATION ZIP CODE 60602</b>			
OGLESBY, PAUL.....	SYMPOSIUM ON THE EPIDEMIOLOGY OF HYPERTENSION.....	1N01 HV52905-00	19,625
ORGANIZATION TOTAL	1 19,625		
<b>CHICAGO PARK DISTRICT ZIP CODE 60605</b>			
FISHER, LESTER E.....	MAINTENANCE OF A MARMOSET BREEDING COLONY.....	2N01 CP33271-02	22,675
ORGANIZATION TOTAL	1 22,675		
<b>CHILDREN'S MEMORIAL HOSPITAL ZIP CODE 60614</b>			
PAUL, M H.....	DEVELOPMENT OF CATHETER-TRANSDUCER ASSEMBLY.....	2N01 HV32995-02	58,061
ORGANIZATION TOTAL	1 58,061		
<b>HEKTOEN INSTITUTE FOR MEDICAL RESEARCH ZIP CODE 60612</b>			
SZANTO, PAUL B.....	SUPPLY OF MATERIALS FROM NEOPLASTIC SUBJECTS.....	3N01 CP43344-01	3,712
ORGANIZATION TOTAL	1 3,712		
<b>IIT RESEARCH INSTITUTE ZIP CODE 60616</b>			
BAXTER, DAVID W.....	SUPPLY OF HAMSTERS TREATED WITH RESPIRATORY CARCINOGENS.....	3N01 CP43289-01	150,486
BRUESCHKE, ERICH E.....	DEVELOPMENT OF IMPLANTABLE VASECTOMY DEVICES.....	2N01 HD12229-06	213,644
BRUESCHKE, ERICH E.....	DEVELOPMENT OF INTRAUTERINE STERILIZATION SYSTEM.....	3N01 HD12233-06	398,698
BRUESCHKE, ERICH E.....	TEST AND EVALUATION FACILITY.....	2N01 HV92125-13	56,196
GRAY, ALLAN P.....	SYNTHESIS OF ANTIFERTILITY COMPOUNDS.....	3N01 HD42836-01	3,901
HENRY, MARY C.....	EFFECTS OF INGESTED ASBESTOS IN HAMSTERS.....	1N01 ES52157-00	230,033
KEITH, J N.....	CHEMICAL REPOSITORY.....	1N01 CP55646-00	451,007
PORT, CURTIS D.....	STUDY OF MODULATING FACTORS IN CARCINOGENESIS.....	2N01 CP23292-03	392,415
SCHIFF, LEONARD J.....	OPERATION OF AN ANIMAL DISEASE DIAGNOSTIC LABORATORY.....	1N01 CM53829-00	114,367
SCHIPMA, PETER B.....	COMPUTER SUPPORT FOR CANCER INFORMATION DISSEMINATION.....	1N01 CO55221-00	301,471
SHEFNER, ALAN M.....	SERVICES IN SUPPORT OF DRUG-SCREENING PROGRAM.....	5N01 CM43755-03	212,949
SHEFNER, ALAN M.....	IN VIVO SCREENING FOR ANTICANCER ACTIVITY.....	1N01 CM57004-00	1,197,513
SHEFNER, ALAN M.....	SCREENING CHEMICAL AGENTS AGAINST ANIMAL TUMORS.....	3N01 CM81021-11	16,172
ORGANIZATION TOTAL	13 3,738,852		
<b>ILLINOIS CANCER COUNCIL ZIP CODE 60603</b>			
TAYLOR, SAMUEL G, II.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55245-00	75,076
ORGANIZATION TOTAL	1 75,076		

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ILLINOIS—Continued</b>			
<b>JOHN CRERAR LIBRARY      ZIP CODE 60616</b>			
NOT APPLICABLE.....	SUPPORT FOR REGIONAL MEDICAL LIBRARY.....	2N01 LM14709-12	276,763
ORGANIZATION TOTAL	1      276,763		
<b>MERCY HOSPITAL AND MEDICAL CENTER      ZIP CODE 60616</b>			
HAWRYLEWICZ, E J.....	SERUM LDH ISOENZYMES IN WOMEN WITH BREAST TUMORS.....	1N01 C853855-00	25,000
ORGANIZATION TOTAL	1      25,000		
<b>NORTHWESTERN UNIVERSITY      ZIP CODE 60611</b>			
HARING, OLGA M.....	CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52929-00	134,604
MITTAL, KAMAL K.....	STUDY OF EFFECTS OF MATCHED PLATELET TRANSFUSIONS.....	2N01 HB32958-03	80,164
ROXE, DAVID M.....	COMPARISONS OF MAINTENANCE PERITONEAL AND HEMODIALYSIS.....	1N01 AM52208-00	63,000
SCHNEIDER, K A.....	SUPPORT FOR LABORATORY TO DETECT HYPERTENSION.....	2N01 HV32933-02	410,727
STAMLER, JEREMIAH.....	STUDY HYPERTENSION IN THE GENERAL POPULATION.....	2N01 HV12441-09	290,872
STAMLER, JEREMIAH.....	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE.....	2N01 HV22978-06	727,360
YOUNG, GUY P.....	PREPARATION OF A MYCOBACTERIAL RIBOSOMAL VACCINE.....	1N01 AI52501-00	10,100
ORGANIZATION TOTAL	7      1,716,827		
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER      ZIP CODE 60612</b>			
BARAM, PETER.....	EFFECT OF TRANSFER FACTOR ON VIRUS-INDUCED TUMORS.....	2N01 CB43951-02	99,451
DEINHARDT, FRIEDRICH W.....	STUDY OF TUMOR VIRUSES IN PRIMATES.....	3N01 CP33219-02	600,000
HENDRICKSON, FRANK R.....	DEMONSTRATION PROJECT FOR HEAD AND NECK CANCER.....	3N01 AM54159-02	8,994
SCHOENBERGER, JAMES A.....	STUDY OF CORONARY HEART DISEASE.....	2N01 HV42930-01	321,507
SCHOENBERGER, JAMES A.....	CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52919-00	134,346
ORGANIZATION TOTAL	5      1,164,298		
<b>ST. JOSEPH HOSPITAL      ZIP CODE 60657</b>			
BERKSON, DAVID M.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52927-00	140,130
ORGANIZATION TOTAL	1      140,130		
<b>UNIVERSITY OF CHICAGO      ZIP CODE 60637</b>			
BIBBO, MARLUCE.....	DIAGNOSTIC VALUE OF GYNECOLOGIC CYTOPATHOLOGY SAMPLES.....	2N01 CB43919-01	62,500
DE SOMBRE, EUGENE R.....	NATURE OF HORMONE DEPENDENCY IN BREAST CANCER.....	2N01 CB23873-03	112,000
FOX, EUGENE N.....	IMMUNIZATION WITH GROUP A STREPTOCOCCAL M PROTEINS.....	2N01 AI32519-08	94,468
HARPER, PAUL V.....	QUANTIFICATION OF ISCHEMIC & INFARCTED MYOCARDIUM.....	1N01 HV52980-00	100,566
HARVEY, RONALD G.....	DERIVATIVES OF CARCINOGENIC POLYCYCLIC HYDROCARBONS.....	2N01 CP33385-03	84,715
JARABAK, JOSEPH W.....	STUDY OF HUMAN DIHYDROFOLATE REDUCTASES.....	2N01 CM33748-03	25,854
JENSEN, ELWOOD V.....	PREDICTION OF RESPONSE TO ADRENALECTOMY.....	2N01 CB43969-01	96,200
JENSEN, ELWOOD V.....	ESTROGEN-RECEPTOR SUBSTANCES OF OVULOID AND UTERUS.....	3N01 HD92108-09	88,600
MATHEWS, MARTIN B.....	PREPARE ACID MUCOPOLYSACCHARIDE STANDARDS.....	1N01 AM52205-00	59,375
MOOSA, A R.....	EARLY DETECTION OF PANCREATIC CANCER.....	2N01 CB43976-01	169,194
ROWLEY, DONALD A.....	SELECTIVE STIM. OR SUPPRESSION OF IMMUNOLOGIC RESPONSES.....	2N01 CB43998-01	59,039
SKAGGS, LESTER S.....	PROTON BEAM IN TISSUE DENSITOMETRY.....	2N01 CB43918-01	84,079
VESSELINOVITCH, STAN D.....	SENSITIVITY OF CARCINOGENESIS BIOASSAY SYSTEMS.....	5N01 CP43317-01	144,681
WIED, GEORGE L.....	DEVELOPMENT OF AUTOMATED CELL RECOGNITION SYSTEM.....	5N01 CB33873-03	150,469
ORGANIZATION TOTAL	14      1,331,740		
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER      ZIP CODE 60680</b>			
CHATTERTON, ROBERT T, JR.....	DETECTION OF OVULATION BY A STEROID INDICATOR.....	1N01 HD52849-00	40,932
DI MAYORCA, GIAMPIERO.....	TEMPERATURE-SENSITIVE MUTANTS IN CARCINOGENESIS.....	2N01 CP23303-05	165,000
DI MAYORCA, GIAMPIERO.....	MOLECULAR MECHANISM OF CARCINOGENESIS BY ONCOGENIC VIRUS.....	2N01 CP43318-01	140,154
DRAY, SHELDON.....	STUDY OF TRANSFER OF TUMOR IMMUNITY.....	2N01 CP23205-03	84,081
FARNESWORTH, NORMAN R.....	DEVELOPMENT OF ANTITUMOR AGENTS FROM NATURAL SOURCES.....	2N01 CM22078-07	103,805
GOLDBERG, MORTON F.....	STUDIES IN SICKLE CELL DISEASE.....	2N01 HB22956-05	75,700
JONASSON, OLGA.....	HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI22529-05	79,595
ORGANIZATION TOTAL	7      689,267		



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ILLINOIS—Continued</b>			
<b>EDWARDSVILLE</b>			
<b>SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE      ZIP CODE 62025</b>			
BAHN, ARTHUR N .....	IMMUNIZATION WITH ENZYMES FROM CARIOGENIC STREPTOCOCCI .....	3N01 DE12330-06	5,671
ORGANIZATION TOTAL	1      5,671		
<b>EVANSTON</b>			
<b>EVANSTON HOSPITAL      ZIP CODE 60201</b>			
KILLIP, THOMAS .....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY .....	1N01 HV52935-00	146,050
SCANLON, EDWARD F. ....	THERAPY OF STAGE II & STAGE III OF BREAST CARCINOMA .....	1N01 CB53917-00	170,000
ORGANIZATION TOTAL	2      316,050		
<b>GALESBURG</b>			
<b>KNOX COLLEGE      ZIP CODE 61401</b>			
GEER, BILLY W .....	EFFECTS OF DIET ON MUTAGENIC TREATMENT .....	1N01 ES52126-00	44,583
ORGANIZATION TOTAL	1      44,583		
<b>JOLIET</b>			
<b>AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE      ZIP CODE 60435</b>			
GARVEY, JOSEPH J. ....	ACCREDITATION PROGRAM FOR LABORATORY ANIMAL CARE .....	1N01 RR52114-00	5,000
ORGANIZATION TOTAL	1      5,000		
<b>NORMAL</b>			
<b>ILLINOIS STATE UNIVERSITY      ZIP CODE 61761</b>			
WALSH, ROBERT H. ....	ANALYSIS OF VARIABLES OF ATTITUDES ON FERTILITY .....	1N01 HD52811-00	12,283
ORGANIZATION TOTAL	1      12,283		
<b>NORTHBROOK</b>			
<b>BIOLABS, INC.      ZIP CODE 60062</b>			
CASIO, BRUCE C. ....	IN VITRO INTERACTION BETWEEN CHEM. & VIRAL CARCINOGENS .....	5N01 CP45615-03	100,000
GOODHEART, CLYDE R .....	PREPARATION OF PURIFIED ONCOGENIC HERPES VIRUSES .....	3N01 CP22068-05	9,500
ORGANIZATION TOTAL	2      109,500		
<b>NORTH CHICAGO</b>			
<b>ABBOTT LABORATORIES      ZIP CODE 60064</b>			
BARLOW, GRANT H. ....	STUDY OF HUMAN GRANULOCYTE CONDITIONING FACTOR .....	5N01 CM43704-02	122,273
BARLOW, GRANT H. ....	ISOLATE AND TEST ANTITHROMBIN III .....	5N01 HB42946-01	84,300
PLOTNIKOFF, N P .....	SYNTHESIS OF NEW ANTICONVULSANT DRUGS .....	3N01 NS32314-01	59,383
ORGANIZATION TOTAL	3      265,956		
<b>SPRINGFIELD</b>			
<b>ILLINOIS DEPARTMENT OF PUBLIC HEALTH      ZIP CODE 62706</b>			
FRANCIS, BYRON J. ....	A STATE CERVICAL CANCER SCREENING PROGRAM .....	1N01 CN55082-00	209,059
ORGANIZATION TOTAL	1      209,059		

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
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**ILLINOIS—Continued**

**URBANA**

**UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN      ZIP CODE 61801**

KAMBERER, JACK.....	PLATO IV COMPUTER HEALTH SCIENCE EDUCATION NETWORK.....	4N01 LM54737-00	11,000
RINEHART, KENNETH L, JR.....	STUDY OF THE STREPTOVARICINS AND RELATED COMPOUNDS.....	2N01 CM23208-04	55,000
ORGANIZATION TOTAL	2      66,000		
STATE TOTAL	75      11,169,648		

**INDIANA**

**CUMBERLAND**

**HARLAN INDUSTRIES      ZIP CODE 46229**

HARLAN, HAL P.....	PRODUCTION OF AGED RATS.....	1N01 CP55647-00	277,396
ORGANIZATION TOTAL	1      277,396		

**ELKHART**

**MILES LABORATORIES      ZIP CODE 46514**

GAVIN, JOHN J.....	STUDY OF SPECIFIC LOCUS MUTANTS IN NEUROSPORA CRASSA.....	2N01 ES32113-05	65,945
ORGANIZATION TOTAL	1      65,945		

**INDIANAPOLIS**

**INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS      ZIP CODE 46202**

BELL, NORMAN H.....	INVESTIGATE CARBOHYDRATE AND FAT METABOLISM IN UREMIA.....	2N01 AM42223-01	60,000
CHRISTIAN, JOE C.....	STUDY OF ADULT MALE TWINS.....	3N01 HV12307-06	40,728
DYKEN, MARK L.....	STUDY OF TRANSIENT ISCHEMIC ATTACKS.....	2N01 NS22324-02	86,295
KAPLAN, JEROME I.....	STUDIES IN ISCHEMIC, INFARCTED & SCARRED MYOCARDIUM.....	1N01 HV52993-00	50,736
MAICKEL, ROGER P.....	PANCREAS UPTAKE EXCRETION: RATS AND GUINEA PIGS.....	1N01 CP55654-00	117,743
MEALEY, JOHN, JR.....	EXPERIMENTAL CHEMOTHERAPY OF SELECTED BRAIN TUMORS.....	2N01 CM02028-09	22,524
ROESKE, ROGER W.....	SYNTHESIS OF LH-RH ANALOGS.....	3N01 HD32732-01	71,542
ORGANIZATION TOTAL	7      449,568		

**INDIANAPOLIS CENTER FOR ADVANCED RESEARCH      ZIP CODE 46202**

FRANKLIN, THOMAS D.....	ULTRASOUND IN ISCHEMIC AND INFARCTED MYOCARDIUM.....	1N01 HV53004-00	82,000
FRY, FRANCIS J.....	STUDY OF ULTRASONIC DIAGNOSTIC TECHNIQUES.....	2N01 NS32319-04	131,066
ORGANIZATION TOTAL	2      213,066		

**LABORATORY SUPPLY COMPANY      ZIP CODE 46241**

COX, ELDON J.....	GENETIC RODENT PRODUCTION CENTER.....	3N01 CM02041-13	14,045
COX, ELDON J.....	CONVENTIONAL ENVIRONMENT RODENT PRODUCTION CENTER.....	1N01 CM53775-00	109,015
ORGANIZATION TOTAL	2      123,060		

**NEW CASTLE**

**INDIANA STATE DEPARTMENT OF MENTAL HEALTH—NEW CASTLE STATE HOSPITAL      ZIP CODE 47362**

BROCK, JOSEPH T.....	STUDY OF CARBAMAZEPINE AS AN ANTICONVULSANT AGENT.....	2N01 NS81310-10	91,052
ORGANIZATION TOTAL	1      91,052		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>INDIANA—Continued</b>			
<b>NOTRE DAME</b>			
<b>UNIVERSITY OF NOTRE DAME</b>	<b>ZIP CODE 46556</b>		
POLLARD, MORRIS.....	MICROFLORA OF LEUKEMIC LABORATORY ANIMALS.....	3N01 CM23718-03	29,647
ORGANIZATION TOTAL	1 29,647		
STATE TOTAL	15 1,249,734		
<b>IOWA</b>			
<b>DES MOINES</b>			
<b>IOWA LUTHERAN HOSPITAL</b>	<b>ZIP CODE 50316</b>		
YOUNG, DONALD C.....	SCREENING FOR EARLY DETECTION OF CANCER.....	2N01 CN45067-02	173,080
ORGANIZATION TOTAL	1 173,080		
<b>IOWA CITY</b>			
<b>UNIVERSITY OF IOWA</b>	<b>ZIP CODE 52242</b>		
ABRAMSON, MARCIA.....	PSYCHOSOCIAL REHABILITATION OF CANCER PATIENTS.....	1N01 CN55061-00	182,821
BRADFORD, B.....	STUDY ON PLATELET TYPING.....	2N01 HB32957-02	138,820
ISACSON, EDWIN P.....	POPULATION-BASED CANCER EPIDEMIOLOGY RESEARCH CENTER.....	3N01 CP43200-01	379,507
MAC KENZIE, IAN C.....	NUTRITION ON THE EPITHELIUM OF ORAL MUCOUS MEMBRANES.....	5N01 DE42441-01	91,274
OSBORNE, JAMES W.....	ANIMAL MODELS FOR CIRCULATING TUMOR ASSOCIATED ANTIGENS.....	2N01 CB43891-01	90,219
RICHERSON, H B.....	ANIMAL MODEL OF PULMONARY FIBROSIS.....	1N01 HR53013-00	98,050
WATZKE, ROBERT C.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32123-03	62,465
WEI, STEPHEN H.....	EVALUATION OF TECHNIQUES TO DETERMINE FLUORIDE CONTENT.....	5N01 DE32429-02	41,670
WURSTER, DALE E.....	DEVELOPMENT OF PARENTERAL DOSAGE FORMS.....	5N01 CM43743-02	125,413
ORGANIZATION TOTAL	9 1,210,239		
STATE TOTAL	10 1,383,319		
<b>KANSAS</b>			
<b>KANSAS CITY</b>			
<b>UNIVERSITY OF KANSAS</b>	<b>ZIP CODE 66103</b>		
AZARNOFF, DANIEL L.....	PHARMACOKINETICS OF ANTICANCER DRUGS.....	5N01 CM12184-05	99,980
BRACKETT, CHARLES E, JR.....	STUDY OF POST-TRAUMATIC EPILEPSY FOLLOWING HEAD INJURY.....	2N01 NS22313-03	85,494
DIEDERICH, DENNIS A.....	ROLE OF HEMOGLOBIN CARBAMYLATION IN SICKLE CELL ANEMIA.....	2N01 HB22919-04	88,000
HOOGSTRATEN, BARTH.....	STUDY OF NEW ANTICANCER AGENTS.....	2N01 CM43802-04	151,085
HUMPHREY, LOREN J.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	9N01 CN55303-00	259,216
REDDY, JANARDAN K.....	STUDY OF HISTOGENESIS OF PANCREATIC ADENOCARCINOMA.....	2N01 CP23271-02	38,010
ORGANIZATION TOTAL	6 721,785		
<b>LAWRENCE</b>			
<b>UNIVERSITY OF KANSAS</b>	<b>ZIP CODE 66045</b>		
HIGUCHI, TAKERU.....	DEVELOPMENT OF PARENTERAL DOSAGE FORMS.....	5N01 CM23217-06	95,000
KIESLER, SARA B.....	STUDY OF SOCIAL NORMS INFLUENCING FAMILY SIZE.....	2N01 HD22703-07	94,572
MARANELL, GARY M.....	PROCESS OF FAMILY FORMATION.....	3N01 HD12213-04	13,323
WEIR, JOHN A.....	OPERATION OF GENETIC CENTER FOR RODENTS.....	1N01 CM53819-00	98,175



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director		Purpose of contract	Contract No.	Dollars
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## KANSAS—Continued

ORGANIZATION TOTAL	4	301,070
STATE TOTAL	10	1,022,855

## KENTUCKY

### FRANKFORT

#### KENTUCKY DEPARTMENT FOR HUMAN RESOURCES ZIP CODE 40601

HERNANDEZ, C.....	EXPANSION OF KENTUCKY CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45083-02	142,191
ORGANIZATION TOTAL	1	142,191	

### LEXINGTON

#### UNIVERSITY OF KENTUCKY ZIP CODE 40506

BLACKER, H M.....	STUDIES IN BRAIN TUMOR CHEMOTHERAPY.....	3N01 CM71173-14	27,326
GOLDENBERG, DAVID M.....	STUDY OF CARCINOEMBRYONIC ANTIGENS.....	3N01 CB33869-02	12,500
MILLER, WILLIAM.....	REMOVAL OF HLA ANTIGENS FROM BLOOD.....	2N01 HB12409-07	49,096
ORGANIZATION TOTAL	3	88,922	

## LOUISVILLE

#### UNIVERSITY OF LOUISVILLE ZIP CODE 40208

CHRISTOPHERSON, WILLIAM M.....	EVALUATION OF MASS SCREENING FOR UTERINE CANCER.....	5N01 CN45059-01	41,684
MOORE, CONDUCT.....	NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45149-01	324,656
MOORE, CONDUCT.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	9N01 CN55307-00	242,558
MOORE, CONDUCT.....	RESERPINE AND BREAST CANCER.....	1N01 CP53542-00	5,300
SONGSTER, CURTIS.....	DETECTION OF SMALL AMOUNTS OF HUMAN BLOOD IN FECES.....	5N01 CB43968-01	60,678
TAMBURRO, CARLO H.....	DEMONSTRATION CANCER CONTROL PROGRAM IN INDUSTRY.....	1N01 CN55212-00	875,117
ORGANIZATION TOTAL	6	1,549,993	
STATE TOTAL	10	1,781,106	

## LOUISIANA

### BATON ROUGE

#### GULF SOUTH RESEARCH INSTITUTE ZIP CODE 70808

ELIAS, KLEIN.....	EVALUATION OF MEMBRANES AND MATERIALS.....	2N01 AM22221-05	94,474
GREER, WILLIAM E.....	SUPPORTING SERVICES ON VIRAL RESEARCH PROJECT.....	3N01 NS80993-13	451,753
ORGANIZATION TOTAL	2	546,227	

### COVINGTON

#### TULANE UNIVERSITY DELTA REGIONAL PRIMATE RESEARCH CENTER ZIP CODE 70433

ALLEN, WILLIAM P.....	STUDY OF HEPATITIS IN CHIMPANZEES.....	2N01 AI12197-05	28,914
ALLEN, WILLIAM P.....	ROLE OF IMMUNITY IN OUTCOME OF INFECTION.....	2N01 CP33396-03	82,500
GERONE, PETER J.....	EVALUATION OF ANTIVIRAL SUBSTANCES IN ANIMALS.....	1N01 AI52525-00	122,799
ORGANIZATION TOTAL	3	234,213	

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>LOUISIANA—Continued</b>			
<b>NEW ORLEANS</b>			
<b>ALTON OCHSNER MEDICAL FOUNDATION      ZIP CODE 70121</b>			
SEGALOFF, ALBERT.....	STUDY OF INTERACTION OF RADIATION AND ESTROGENS.....	2N01 CP43229-01	94,000
ORGANIZATION TOTAL	1      94,000		
<b>GULF SOUTH RESEARCH INSTITUTE—LAKE PONTCHARTRAIN LABORATORIES      ZIP CODE 70186</b>			
KLEIN, ELIAS.....	STUDY ON SYNTHETIC POLYPEPTIDES.....	3N01 AM80709-10	15,000
ORGANIZATION TOTAL	1      15,000		
<b>LOUISIANA HLTH AND SOCIAL AND REHAB SRVCS ADMIN—CHARITY HOSPITAL OF LOUISIANA      ZIP CODE 70140</b>			
KREMENTZ, EDWARD T.....	STUDY OF CANCER DATA.....	3N01 CP43259-01	2,700
KREMENTZ, EDWARD T.....	SUPPORT FOR LOUISIANA TUMOR REGISTRY.....	2N01 CP43262-02	198,021
ORGANIZATION TOTAL	2      200,721		
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS      ZIP CODE 70119</b>			
LILLIE, RALPH D.....	DEVELOPMENT OF SUBSTITUTES FOR HEMATOXYLIN.....	2N01 CB43912-02	37,599
STRONG, JACK P.....	STUDY OF PREMALIGNANT LESIONS IN LARGE INTESTINE.....	3N01 CP43281-01	19,180
STRONG, JACK P.....	EPIDEMIOLOGY AND GEOGRAPHIC PATHOLOGY OF CANCER.....	9N01 CP53521-00	95,600
ORGANIZATION TOTAL	3      152,379		
<b>TULANE UNIVERSITY      ZIP CODE 70118</b>			
BOWERS, CYRIL Y.....	STUDIES OF SMALL PEPTIDES WHICH RELEASE LH AND FSH.....	2N01 HD22713-04	120,533
BURNS, KENNETH F.....	GENETIC CENTER FOR RODENTS IN A GERM-FREE ENVIRONMENT.....	3N01 CM33701-02	26,456
BURNS, KENNETH F.....	OPERATION OF A GERM-FREE RODENT COLONY.....	1N01 CM53815-00	179,985
FISHER, JAMES W.....	STUDY OF ANEMIA IN PATIENTS WITH RENAL DISEASE.....	3N01 AM02112-04	10,000
KTSANES, VIRGINIA K.....	REGULATION OF FERTILITY BY THE YOUNG.....	1N01 HD52833-00	63,941
SCHLEGEL, JORGEN U.....	IMMUNOLOGIC AND MORPHOLOGIC EFFECTS OF VASECTOMY.....	3N01 HD32758-05	69,265
ORGANIZATION TOTAL	6      470,180		
STATE TOTAL	18      1,712,720		
<b>MAINE</b>			
<b>BAR HARBOR</b>			
<b>JACKSON LABORATORY      ZIP CODE 04609</b>			
CHERRY, MARIANNA.....	PROD. OF H-2 RECOMB. OR MUTANT COGENIC MICE.....	2N01 CB43988-01	22,938
CHERRY, MARIANNA.....	PREPARATION AND DISTRIBUTION OF RABBIT SERUM COMPLEMENT.....	1N01 CB53870-00	102,545
MEIER, HANS.....	NATURAL OCCURRENCE OF RNA TUMOR VIRUSES.....	3N01 CP33255-03	521,317
RODERICK, THOMAS H.....	DEVELOPMENT OF SYSTEM FOR DETECTING LETHAL MUTATIONS.....	5N01 ES42156-01	27,000
RODERICK, THOMAS H.....	DEVELOPMENT OF A NEW MOUSE STRAIN.....	5N01 ES42159-02	33,800
ORGANIZATION TOTAL	5      707,600		
STATE TOTAL	5      707,600		
<b>MARYLAND</b>			
<b>BALTIMORE</b>			
<b>IPCO HOSPITAL SUPPLY CORPORATION—COMMUNITY BLOOD AND PLASMA SERVICES DIVISION      ZIP CODE 21231</b>			
SCHMIDT, PAUL J.....	SUPPLY OF PLATELETHESIS.....	3N01 CL42150-07	20,065

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
ORGANIZATION TOTAL	1 20,065		
<b>JOHN F. KENNEDY INSTITUTE ZIP CODE 21205</b>			
STARK-SEITZ, RACHEL E.....	SENSORY & PERCEPTUAL FUNCTIONS IN LANGUAGE DEVELOPMENT.....	1N01 NS52323-00	254,169
ORGANIZATION TOTAL	1 254,169		
<b>JOHNS HOPKINS UNIVERSITY ZIP CODE 21218</b>			
ALEXANDER, KARL L.....	CONSEQUENCES OF CHILDBEARING AND CHILDSACING PATTERNS.....	1N01 HD52836-00	80,944
ANDERSON, PAUL N.....	ANTITUMOR REACTIVITY IN CANCER PATIENTS.....	2N01 CP33337-02	55,425
AURELIAN, LAURE.....	HERPES VIRUS ANTIGENS AND VIRIONS IN NEOPLASTIC CELLS.....	2N01 CP33345-02	80,000
AURELIAN, LAURE.....	HERPES SIMPLEX ASSOCIATED ANTIGENS IN CANCER PATIENTS.....	2N01 CP43330-01	234,714
BOYER, SAMUEL H.....	PRENATAL DIAGNOSIS OF INHERITED BLOOD DISEASES.....	2N01 HB12403-07	31,080
EDIDIN, MICHAEL A.....	STUDY OF MEMBRANE COMPONENTS OF CELL SURFACE.....	2N01 CB43922-01	58,657
EWING, LARRY L.....	CONTRACEPTIVE EFFECTS OF TESTOSTERONE.....	3N01 HD32745-03	85,826
FROST, JOHN K.....	EARLY DETECTION, LOCALIZATION AND THERAPY OF LUNG CANCER.....	2N01 CB92172-10	350,000
FROST, JOHN K.....	STUDY OF EARLY DETECTION OF CANCER OF THE LUNGS.....	2N01 CM45037-01	407,941
HARDY, JANET B.....	ANALYSIS OF COOPERATIVE PERINATAL STUDY.....	2N01 NS22321-04	77,441
HARPER, PAUL A.....	INTERPREGNANCY INTERVAL—FETAL, INFANT, CHILD MORTALITY.....	1N01 HD52839-00	16,789
HENNEY, CHRISTOPHER S.....	STUDY OF PROTEIN SYNTHETIC REQUIREMENTS FOR CYTOLYSIS.....	2N01 CB43932-01	53,380
HENNEY, CHRISTOPHER S.....	IMPROVEMENT OF ASSAYS FOR CELL-MEDIATED IMMUNITY.....	2N01 CB43965-01	76,885
HOLLIS, DONALD P.....	NUCLEAR MAGNETIC RESONANCE TO BE STUDIED IN NEOPLASTIC.....	5N01 CB43911-01	50,150
HUMPHREY, RICHARD L.....	DEVELOPMENT OF METHOD FOR ENUMERATION OF TUMOR CELLS.....	5N01 CM43718-01	37,589
JOHNSON, RICHARD T.....	STUDY OF NEW PAPOVIRUSES ISOLATED FROM MAN.....	3N01 HD32665-02	69,919
KAIZER, H.....	PEDIATRIC TUMOR RESOURCE.....	2N01 CP33245-02	32,000
KAUFMAN, JOYCE J.....	EFFECTS ON CULTURED CELLS OF LIPOPHILIC COMPOUNDS.....	1N01 NS52320-00	42,358
KAZAZIAN, HAIG H, JR.....	PRENATAL DIAGNOSIS OF INHERITED BLOOD DISEASES.....	2N01 HB12401-07	28,342
KWITEROVICH, PETER O.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	3N01 HV12158-08	70,000
LEHNINGER, ALBERT L.....	STUDY OF MAMMALIAN CELL TRANSPORT SYSTEMS.....	2N01 CP45610-01	244,745
LENHARD, RAYMOND E, JR.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55241-00	329,289
MEYER, MARY B.....	MATERNAL SMOKING RELATED TO OTHER RISK FACTORS ON FETUS.....	3N01 HD42867-01	2,916
MICHEL, RONALD G.....	EVALUATION OF EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY52145-00	117,209
PIERCE, NATHANIEL F.....	ADDITIONAL STUDIES OF ANTITOXIC IMMUNITY IN CHOLERA.....	2N01 AO2051-11	65,950
ROSEMAN, SAUL.....	BIOCHEMISTRY OF NORMAL AND TUMOR CELL SURFACE ANTIGENS.....	2N01 CB43985-01	73,228
SCHUETZ, ALLEN W.....	STUDY OF DYNAMICS OF SPERMATOGENESIS.....	2N01 HD32794-02	68,466
STRANDBERG, JOHN D.....	PATHOLOGY SERVICES AND STUDIES.....	2N01 CP43288-02	110,000
TS'O, PAUL P.....	STUDIES ON SIGNIFICANCE OF MUTATION IN CARCINOGENESIS.....	1N01 CP55713-00	101,875
WEISS, MICHAEL S.....	SUPPORT FOR INFORMATION CENTER ON HUMAN COMMUNICATIONS.....	2N01 NS12281-11	259,266
ORGANIZATION TOTAL	30 3,312,384		
<b>MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE ZIP CODE 21201</b>			
SAWADA, EDWARD A.....	EXPANSION OF MARYLAND CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55166-00	206,291
ORGANIZATION TOTAL	1 206,291		
<b>OMNI RESEARCH ZIP CODE 21215</b>			
NOT APPLICABLE.....	BUILDING TOXICOLOGY DATA FILES.....	2N01 LM44738-05	239,933
ORGANIZATION TOTAL	1 239,933		
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 21211</b>			
SHERWIN, ROGER W.....	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE.....	2N01 HV22980-04	963,945
ORGANIZATION TOTAL	1 963,945		
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND AT BALTIMORE ZIP CODE 21201</b>			
ENTWISLE, G.....	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION.....	2N01 HV12439-08	570,222
GARCIA, JULIO H.....	CAPILLARY ANGIOGENESIS IN ACUTE CEREBRAL ISCHEMIA.....	1N01 NS52310-00	31,564
HORNICK, RICHARD B.....	STUDY OF VIRAL VACCINE IN MAN.....	3N01 AI32503-05	10,505
KNATTERUD, GENELL L.....	STUDY OF RETINOPATHY.....	5N01 EY32129-03	299,000
KROL, WILLIAM F.....	COORDINATING CENTER—ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52901-00	198,757



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
RAITI, SALVATORE.....	PITUITARY GLAND STORAGE BANK.....	3N01 AM71153-12	410,680
TRUMP, BENJAMIN F.....	HISTOGENESIS OF RENAL CARCINOMA.....	2N01 CP23206-03	91,957
TRUMP, BENJAMIN F.....	STUDY OF TRACHEOBRONCHIAL EPITHELIUM.....	3N01 CP43237-02	113,259
WENTZ, DENNIS K.....	SUPPORT FOR MEDICAL AND LABORATORY PROGRAMS.....	3N01 CM43748-02	4,653,700
ORGANIZATION TOTAL	9 6,379,644		
<b>WESTINGHOUSE ELECTRIC CORPORATION—WESTINGHOUSE DEFENSE AND ELECTRONIC SYSTEMS DIVISION ZIP CODE 21203</b>			
DEEDS, SIGRID G.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	1N01 CN55094-00	133,027
ORGANIZATION TOTAL	1 133,027		
<b>BETHESDA</b>			
<b>AMERICAN PHYSIOLOGICAL SOCIETY ZIP CODE 20014</b>			
NOT APPLICABLE.....	PLAN FOUR SELF-INSTRUCTIONAL UNITS IN PHYSIOLOGY COURSES.....	1N01 LM54703-00	83,071
ORGANIZATION TOTAL	1 83,071		
<b>AMERICAN SOCIETY OF HOSPITAL PHARMACISTS ZIP CODE 20014</b>			
REILLY, MARY J.....	EXTRACTION OF DATA ON DRUGS.....	1N01 LM54750-00	53,776
ORGANIZATION TOTAL	1 53,776		
<b>ELECTRO-NUCLEONICS LABORATORIES ZIP CODE 20014</b>			
LEMP, JOHN F, JR.....	PRODUCTION OF ONCOGENIC VIRUSES.....	2N01 CP23249-07	780,221
LEMP, JOHN F, JR.....	DEVELOPMENT OF PROPAGATION PROCEDURES OF VIRUSES.....	2N01 CP33355-03	359,247
LEMP, JOHN F, JR.....	VIRUS PROCESSING AND PRODUCTION FACILITY.....	2N01 CP43334-01	310,317
ORGANIZATION TOTAL	3 1,449,785		
<b>INFORMATION SERVICES ZIP CODE 20014</b>			
JOHNSON, DALLAS.....	CANCER PUBLIC INFORMATION PUBLICATION.....	1N01 C055227-00	64,200
ORGANIZATION TOTAL	1 64,200		
<b>INTERNATIONAL BUSINESS MACHINES CORPORATION ZIP CODE 20034</b>			
NOT APPLICABLE.....	TO PROVIDE SYSTEMS ENGINEERING SUPPORT TO NLM.....	1N01 LM54706-00	67,900
ORGANIZATION TOTAL	1 67,900		
<b>MICROBIOLOGICAL ASSOCIATES ZIP CODE 20014</b>			
ATHEY, W L.....	GENETIC CENTER IN BIOCONTAINMENT ENVIRONMENT.....	1N01 CM53818-00	158,900
BERMAN, J.....	CANCER CHEMOTHERAPY CHEMICALS/DRUGS STORAGE/DISTRIBUTION.....	5N01 CM43793-01	408,800
COSTLOW, R.....	CHEMOTHERAPY, DRUG DISTRIBUTION AND GENETIC CENTER.....	3N01 CM33728-05	877,057
DUBOIS, RONALD J.....	SYNTHESIS OF UNIQUE COMPOUNDS FOR CANCER CHEMOTHERAPY.....	5N01 CM43761-02	323,850
HOUSEWRIGHT, RILEY D.....	STUDY OF ETIOLOGY OF CANCER.....	3N01 CP43240-01	839,525
KOURI, R E.....	SCREENING METHOD TO DETERMINE SMOKING HAZARDS.....	2N01 CP43309-02	44,250
KOURI, R E.....	MICROSOMAL ENZYME STUDIES.....	1N01 CP55605-00	99,900
MADISON, R.....	PROVIDE SERVICES IN SUPPORT OF CARCINOGENESIS BIOASSAYS.....	2N01 CP02199-11	810,743
MC KINNEY, ROBERT.....	PREPARATION AND DELIVERY OF VARIOUS CELL CULTURES.....	1N01 NS52301-00	59,480
MISHRA, NIRMAL K.....	STUDIES OF TYPE C RNA TUMOR VIRUSES.....	3N01 CP43254-01	468,440
MISHRA, NIRMAL K.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	1N01 CP55670-00	171,740
NIMS, ROBERT M.....	BIO-ASSAYS OF ANIMAL TUMOR VIRUSES.....	3N01 CP33248-03	740,500
PARKER, JOHN C.....	VIRUS TYPING AND DIAGNOSTIC REAGENTS.....	2N01 CP33288-03	508,235
PRICE, PAUL J.....	STUDY OF BIOCHEMISTRY AND NEURAL CODING OF BRAIN CELLS.....	2N01 HI92245-13	30,850
TRAPANI, ROBERT J.....	MAINTENANCE OF HISTOCOMPATIBILITY-TYPING CENTER.....	3N01 CB43915-02	17,551
TRAPANI, ROBERT J.....	HUMAN HISTOCOMPATIBILITY TYPING CENTER.....	3N01 CB92177-11	94,520
VERNON, MINA LEE.....	TYPE-C RNA TUMOR VIRUSES DIAGNOSTIC TESTING.....	1N01 CP53519-00	825,917
ORGANIZATION TOTAL	17 6,480,258		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
<b>SIGMA DATA COMPUTING CORPORATION      ZIP CODE 20014</b>			
SCHEER, JEROME D.....	PROGRAMMING IN SUPPORT OF CONTRACT MANAGEMENT SYSTEM.....	1N01 C055203-00	24,138
ORGANIZATION TOTAL	1      24,138		
<b>UNIVERSITIES ASSOCIATED FOR RESEARCH AND EDUCATION IN PATHOLOGY      ZIP CODE 20014</b>			
EARLE, KENNETH.....	COLLECTION OF SERIALLY SECTIONED BRAIN SPECIMENS.....	5N01 NS42303-02	49,749
HANSEN, JAMES L.....	TISSUE EVALUATION OF CONTRACEPTIVE STEROIDS.....	2N01 HD22729-07	145,272
ORGANIZATION TOTAL	2      195,021		
<b>CHEVERLY</b>			
<b>INFORMATICS, INC.—INFORMATION SYSTEMS COMPANY      ZIP CODE 20785</b>			
HYATT, CECIL A, JR.....	PREPARATION OF MEDLARS ABSTRACTS.....	3N01 LM44703-01	296,753
ORGANIZATION TOTAL	1      296,753		
<b>CHEVY CHASE</b>			
<b>UNIVERSITY RESEARCH CORPORATION      ZIP CODE 20015</b>			
STEINBERG, S.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	1N01 CN55087-00	284,382
ORGANIZATION TOTAL	1      284,382		
<b>COLLEGE PARK</b>			
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND COLLEGE PARK CAMPUS      ZIP CODE 20742</b>			
CRANE, LANGTON T.....	MATHEMATICAL MODELING OF THE KIDNEY.....	1N01 HI52900-00	52,000
ORGANIZATION TOTAL	1      52,000		
<b>GAITHERSBURG</b>			
<b>GEOMET, INC.      ZIP CODE 20760</b>			
COOK, JONATHAN D.....	THIRD NATIONAL CANCER SURVEY DATA PROCESSING SERVICES.....	1N01 CP53522-00	125,082
ORGANIZATION TOTAL	1      125,082		
<b>KENSINGTON</b>			
<b>LITTON INDUSTRIES—LITTON BIONETICS      ZIP CODE 20795</b>			
DARROW, CLEMENT C.....	PRODUCTION OF STANDARDIZED ALS.....	3N01 CB02103-12	50,500
DARROW, CLEMENT C.....	BREEDING COLONY OF RHESUS MONKEYS MACACA MULATTA.....	1N01 RR52155-00	317,159
DEAN, JACK H.....	IMMUNOLOGICAL ASSAY FOR DNA AND RNA VIRUS.....	2N01 CP43333-01	265,425
KEIJI, OHE.....	PROCUREMENT OF EMBRYONIC CELL LINES.....	2N01 CM22062-07	185,619
KINGSBURY, ELIZABETH W.....	PREPARATION OF EXPERIMENTAL BIOLOGICAL MATERIALS.....	2N01 CP22063-04	133,141
KINGSBURY, ELIZABETH W.....	EM LOCALIZATION OF HYDROLYTIC ENZYMES OF THE RAT.....	3N01 DE32417-02	91,238
MACKLER, BRUCE F.....	ISOLATION OF ANTIGENS FROM HUMAN DENTAL PLAQUE.....	3N01 DE22414-06	194,865
MARTIN, DAVID P.....	MODELS OF ATHEROSCLEROSIS.....	1N01 HV53031-00	499,484
MATTHEWS, EDWIN J.....	IN VITRO TESTS FOR TUMOR SPECIFIC ANTIGENS.....	3N01 CB02207-11	20,353
MATTHEWS, EDWIN J.....	MELANOMA CELL VACCINE - ASSAYS FOR CYTOTOXICITY.....	1N01 CB53916-00	290,453
MC COY, JAMES L.....	CANCER STUDIES.....	3N01 CB02320-09	145,814
MC COY, JAMES L.....	MEASUREMENT OF IMMUNOLOGICAL REACTIVITY TO HUMAN CANCER.....	2N01 CB23227-04	554,930
NORRIS, SHIRLEY.....	SUPPLY OF CANCER TISSUES.....	2N01 CP43260-02	152,345
RABIN, HARVEY.....	SUPPORT FOR PRIMATE DIAGNOSTIC LABORATORY.....	3N01 CP43224-01	1,448,968
RABIN, HARVEY.....	SUSPECTED ONCOGENIC VIRUSES IN NONHUMAN PRIMATES.....	1N01 CP53509-00	319,900
REIN, ALAN.....	STUDY OF CANCER OF THE BREAST.....	2N01 CP43249-02	460,024
SETHI, VIDYA S.....	COMPOUNDS FOR ANTIVIRAL AND ANTITUMOR ACTIVITY.....	2N01 CM33741-03	302,680
SIBINOVIC, KYLE H.....	SUPPLY OF ANTITHYROID SUBSTANCES.....	3N01 AM42208-01	26,795

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
SIBINOVIC, KYLE H.....	STUDY PLASMA CELL TUMORS IN MICE.....	2N01 CB92142-15	200,682
SIBINOVIC, KYLE H.....	OPERATION OF ANIMAL DISEASE DIAGNOSTIC LABORATORY.....	1N01 CM53778-00	66,599
STEVENSON, ROBERT E.....	SUPPORT FOR CANCER RESEARCH CENTER.....	3N01 C025423-17	25,799,965
VALERIO, MARION G.....	STUDY OF CARCINOGENESIS IN HUMAN BRONCHIAL TISSUES.....	2N01 CP43274-03	95,240
WALLEN, W C.....	IMMUNOLOGIC STUDY OF VIRAL ETIOLOGY OF CANCER.....	2N01 CP43252-02	251,188
WALLEN, WILLIAM.....	IMMUNE RESPONSE TO TUMOR ASSOCIATED ANTIGENS.....	1N01 CB53889-00	182,134
WU, ALAN M.....	DEVELOP NEW APPROACHES TO CANCER CHEMOTHERAPY.....	3N01 CM12340-08	1,583,672
WU, ALAN M.....	MOLECULAR TRANSFORMATION BY RNA ONCOGENIC VIRUSES.....	3N01 CP33211-04	761,800
ORGANIZATION TOTAL	26 34,400,973		
<b>LAUREL</b>			
<b>PHARMACOPATHICS RESEARCH LABORATORIES ZIP CODE 20810</b>			
TEGERIS, ANDREW S.....	MAINTAIN ANIMAL HOLDING FACILITY/PROVIDE RESEARCH SERV.....	3N01 CB33887-02	132,405
ORGANIZATION TOTAL	1 132,405		
<b>RIVERDALE</b>			
<b>DIGITAL EQUIPMENT CORPORATION ZIP CODE 20840</b>			
STREET, DAVID.....	PROVIDE A MODEM DC10E FOR THE NIH PROPHET SYSTEM.....	1N01 RR52139-00	5,060
ORGANIZATION TOTAL	1 5,060		
<b>ROCKVILLE</b>			
<b>AMERICAN FOUNDATION FOR BIOLOGICAL RESEARCH—BIOMEDICAL RESEARCH INSTITUTE ZIP CODE 20852</b>			
PERRY, VERNON P.....	FREEZE-DRYING OF TYPING SERA.....	3N01 AI32508-04	170,585
ORGANIZATION TOTAL	1 170,585		
<b>AMERICAN TYPE CULTURE COLLECTION ZIP CODE 20852</b>			
DONOVICK, RICHARD.....	PREPARE AND DISTRIBUTE VIRAL REFERENCE REAGENTS.....	1N01 AI52526-00	233,890
DONOVICK, RICHARD.....	COLLECTION OF LIVING REFERENCE STRAINS.....	2N01 RR42158-01	449,976
ORGANIZATION TOTAL	2 683,866		
<b>ASPEN SYSTEMS CORPORATION ZIP CODE 20852</b>			
SEIFERT, GERALD.....	A SURVEY OF CANCER CONTROL LAWS.....	3N01 CN45117-01	19,651
ORGANIZATION TOTAL	1 19,651		
<b>BIOSPHERICS, INC. ZIP CODE 20852</b>			
BARRETT, JEANNE.....	CANCER RELATED PUBLIC INQUIRIES TECH. WRITING SERVICES.....	3N01 C045419-01	339,426
ORGANIZATION TOTAL	1 339,426		
<b>BIOTECH RESEARCH LABORATORIES ZIP CODE 20852</b>			
TING, ROBERT C.....	IN VITRO TRANSFORMATION BY VIRUSES AND CARCINOGENS.....	1N01 CP55640-00	121,143
ORGANIZATION TOTAL	1 121,143		
<b>CAPITOL SYSTEMS GROUP ZIP CODE 20852</b>			
BOOTH, JAMES M.....	SERVICES FOR THE NATIONAL COMMISSION ON ARTHRITIS.....	1N01 AM52225-00	197,992
CREAGER, WILLIAM A.....	STATISTICAL SERVICES.....	3N01 CB43913-01	207,382
ORGANIZATION TOTAL	2 405,374		
<b>CONTROL DATA CORPORATION ZIP CODE 20852</b>			
THOMPSON, KENNETH L.....	PROCESSING OF CLINICAL PATIENT RESEARCH DATA.....	3N01 CM33739-04	62,155
ORGANIZATION TOTAL	1 62,155		



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
<b>COR BEL LABORATORIES      ZIP CODE 20852</b>			
ALLCOCK, NELSON R.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	3N01 NS32301-02	67,731
RICKMAN, WILLIAM M. JR.....	ANIMAL-HOLDING FACILITIES.....	3N01 CP23299-02	15,701
ORGANIZATION TOTAL      2	83,432		
<b>E &amp; G, INC.—MASON RESEARCH INSTITUTE      ZIP CODE 20852</b>			
LAKE, WILLIAM.....	COMPUTING SUPPORT FOR THE THIRD NATIONAL CANCER SURVEY.....	3N01 CP33254-04	77,080
TIDWELL, DALTON.....	DATA-PROCESSING SERVICES FOR CANCER BIOASSAY SYSTEM.....	2N01 CP43257-05	385,030
TO BE APPOINTED.....	PREPARE MICROFICHE COPIES OF VOL. I-IV OF PHS-149 SERIES.....	1N01 CP55717-00	3,111
ORGANIZATION TOTAL      3	465,221		
<b>ENVIRO CONTROL      ZIP CODE 20852</b>			
HAYWARD, A.....	SMOKING & HEALTH PRIME CONTRACT.....	4N01 CP55666-00	5,643,648
ORGANIZATION TOTAL      1	5,643,648		
<b>FLOW LABORATORIES      ZIP CODE 20852</b>			
ADKINS, HARRY F.....	REPOSITORY FOR PROCESSING LEUKOCYTE-TYPING SERA.....	2N01 AI22515-09	320,920
ADKINS, HARRY F.....	LOW-TEMPERATURE REPOSITORY AND CELL LINES.....	2N01 CP33201-03	169,219
GILDEN, RAYMOND V.....	MAINTENANCE OF ANIMAL-BREEDING COLONY.....	2N01 AI81406-13	141,174
GILDEN, RAYMOND V.....	VIRUS AND REAGENT PRODUCTION AND PURIFICATION.....	9N01 CP53528-00	820,000
GILDEN, RAYMOND V.....	STUDIES ON HERPES VIRUSES.....	9N01 CP53529-00	377,000
GILDEN, RAYMOND V.....	STUDIES ON TYPE-C VIRUSES WITH ONCOGENIC POTENTIAL.....	9N01 CP53530-00	1,988,686
HAUGHOM, JOAN R.....	GROWTH OF HUMAN TROPHOBLAST CELLS IN CULTURE.....	3N01 HD12133-09	34,950
TORGENSEN, JUDITH.....	ANIMAL FACILITY TO SUPPORT RESEARCH ON RNA VIRUSES.....	9N01 CP53566-00	114,951
ORGANIZATION TOTAL      8	3,966,900		
<b>FLOW LABORATORIES—FLOW RESEARCH INSTITUTE      ZIP CODE 20852</b>			
GILDEN, RAYMOND V.....	SUPPORT FOR VIRUS AND TISSUE-CULTURE LABORATORIES.....	2N01 AI32521-04	226,391
ORGANIZATION TOTAL      1	226,391		
<b>INFORMATICS, INC.      ZIP CODE 20852</b>			
ELIAS, ARTHUR.....	DEVELOPMENT OF NATIONAL CANCER INFORMATION SYSTEM.....	3N01 C035403-09	12,284
WOLFE, MOLLY A.....	REGISTRIES OF HUMAN CLINICAL PROTOCOLS IN CANCER THERAPY.....	1N01 CB53888-00	82,641
ORGANIZATION TOTAL      2	94,925		
<b>TOUSIMIS RESEARCH CORPORATION      ZIP CODE 20852</b>			
TOUSIMIS, A J.....	SCANNING ELECTRON MICROSCOPY OF GI TRACT.....	1N01 AM52203-00	15,000
ORGANIZATION TOTAL      1	15,000		
<b>TRACOR, INC.—JITCO, INC.      ZIP CODE 20852</b>			
BURNS, THOMAS B. JR.....	CATALOGING OF FOREIGN LANGUAGE PUBLICATIONS.....	4N01 LM54748-00	18,011
NOT APPLICABLE.....	RECATALOGING JOURNALS TO TITLE ENTRY.....	3N01 LM44737-02	6,000
WESSLEL, CARL.....	BIOASSAY PRIME CONTRACT.....	2N01 CP43350-08	8,475,000
ORGANIZATION TOTAL      3	8,499,011		
<b>WESTAT RESEARCH, INC.      ZIP CODE 20852</b>			
BEATTY, RICHARD L.....	DATA ON HIRING NEW BIOMEDICAL SCIENTISTS.....	1N01 OD52107-00	39,884
CAHILL, JOHN.....	PREVALENCE AND COST OF VISUAL DISORDERS AND DISABILITIES.....	1N01 EY52108-00	68,489
JAFFE, SIDNEY A.....	PRICE DEFLATOR FOR BIOMEDICAL RESEARCH AND DEVELOPMENT.....	1N01 OD52134-00	71,079
MAFFEO, C.....	INCIDENCE, PREVALENCE & COSTS OF INTRACRANIAL NEOPLASMS.....	3N01 NS42336-02	31,836
MC KENNA, THOMAS W.....	SURVEY OF TRAINING PROGRAMS.....	2N01 CB23891-08	3,183
ORGANIZATION TOTAL      5	214,471		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
<b>SILVER SPRING</b>			
<b>APPLIED MANAGEMENT SCIENCES      ZIP CODE 20910</b>			
BLOOM, MARTIN V.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	1N01 CN55069-00	139,602
MESSER, JOSEPH A.....	SYSTEM FOR WRITING ABSTRACTS FOR AUDIOVISUAL MATERIALS.....	3N01 LM44736-01	75,905
ORGANIZATION TOTAL	2      215,507		
<b>AUTOMATION INDUSTRIES-VITRO LABORATORIES      ZIP CODE 20906</b>			
CRAIN, ROBERT D.....	SERVICES FOR THE CANCER CHEMOTHERAPY PROGRAM.....	3N01 CM33717-05	142,732
HESS, HELEN.....	SUPPORT FOR ADMINISTRATIVE AND TECHNICAL SERVICES.....	3N01 CM33732-03	106,920
ORGANIZATION TOTAL	2      249,652		
<b>MESSER ASSOCIATES      ZIP CODE 20910</b>			
MESSER, DONALD H.....	NATIONAL SURVEY OF CANCER-CONTROL PROGRAM ACTIVITIES.....	3N01 CN35031-08	11,774
ORGANIZATION TOTAL	1      11,774		
<b>TOWSON</b>			
<b>BECTON, DICKINSON AND COMPANY-HUNTINGDON RESEARCH CENTER      ZIP CODE 21002</b>			
STEPHEN, W F.....	TOBACCO SMOKE CONSTITUENTS.....	2N01 CP45622-01	71,670
WILSNAK, ROGER.....	PREPARATION OF ANTISERA TO ONCOGENIC VIRAL ANTIGENS.....	2N01 CP33223-03	345,912
ORGANIZATION TOTAL	2      417,582		
<b>GREATER BALTIMORE MEDICAL CENTER      ZIP CODE 21204</b>			
PROUT, THADDEUS E.....	ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52932-00	123,843
ORGANIZATION TOTAL	1      123,843		
STATE TOTAL	147      77,253,819		
<b>MASSACHUSETTS</b>			
<b>BEDFORD</b>			
<b>MITRE CORPORATION      ZIP CODE 01730</b>			
SHARPE, EDWARD G.....	TECHNICAL SUPPORT OF A SYSTEMS PLANNING BRANCH.....	1N01 C055421-00	457,151
SHARPE, EDWARD G.....	SUPPORT OF OFFICE OF CANCER COMMUNICATIONS.....	9N01 C055424-00	314,922
ORGANIZATION TOTAL	2      772,073		
<b>BOSTON</b>			
<b>BETH ISRAEL HOSPITAL      ZIP CODE 02215</b>			
FREEDBERG, IRWIN M.....	RESPONSE TO THERAPY OF CUTANEOUS HERPES SIMPLEX.....	1N01 AI52530-00	106,105
ORGANIZATION TOTAL	1      106,105		
<b>BOSTON HEALTH AND HOSPITALS DEPARTMENT      ZIP CODE 02118</b>			
HOOD, WILLIAM B, JR.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52937-00	142,715
KASS, EDWARD H.....	EFFECTS OF ORAL CONTRACEPTIVES ON BLOOD PRESSURE.....	1N01 HD52832-00	199,455
KASS, EDWARD H.....	STUDY OF PREVALENCE OF RESPIRATORY DISEASES.....	2N01 HR32906-02	90,500
KASS, EDWARD H.....	STUDY OF HYPERTENSION IN THERAPY.....	2N01 HV12433-06	628,305
KLEIN, JEROME O.....	VACCINE FOR PREVENTION OF OTITIS MEDIA.....	1N01 AI52536-00	132,033
TAGER, IRA.....	STUDY OF IMMUNOGENETIC FACTORS.....	2N01 HR22944-03	49,450
ORGANIZATION TOTAL	6      1,242,458		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>BOSTON HEALTH AND HOSPITALS DEPARTMENT—BOSTON CITY HOSPITAL      ZIP CODE 02110</b>			
SARAVIS, CALVIN A.....	DETECTION OF CARCINOEMBRYONIC ANTIGENS IN HUMANS.....	2N01 CP33264-02	115,073
ORGANIZATION TOTAL	1      115,073		
<b>BOSTON UNIVERSITY      ZIP CODE 02215</b>			
ALBERT, ARTHUR E.....	DETERMINE OPTIMAL FREQUENCY OF SCREENING STRATEGIES.....	1N01 CB53863-00	113,000
CONWAY, MARY E.....	ENTEROSTOMAL THERAPY EDUCATION PROGRAM.....	3N01 CN45112-01	96,709
DAWBER, THOMAS R.....	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE.....	2N01 HV33106-04	990,327
DAWBER, THOMAS R.....	REEXAMINATION OF FRAMINGHAM HEART STUDY COHORT.....	1N01 HV52971-00	348,096
DECKER, PETER J.....	TUMOR SPECIFIC IMMUNOTHERAPY WITH RNA.....	2N01 CB43949-01	57,630
ELKORT, RICHARD J.....	CARCINOGENESIS OF THE PANCREAS.....	2N01 CP23297-04	41,422
FRANZBLAU, CARL.....	SEPARATION AND CHARACTERIZATION OF LUNG ELASTIN.....	5N01 HR42934-01	115,482
GOULD, JEFFREY B.....	STUDY OF MONOZYGOUS AND DIZYGOUS TWINS.....	2N01 HD32789-03	180,900
HOOD, WILLIAM B.....	STUDIES IN ISCHEMIC MYOCARDIUM AND INFARCT SIZE.....	1N01 HV53001-00	162,371
JICK, HERSCHEL.....	COLLABORATIVE DRUG SURVEILLANCE PROGRAM.....	2N01 GM42148-07	424,369
LAING, RONALD A.....	NONINVASIVE MEASUREMENT OF VASCULAR CONDITIONS.....	2N01 HV32993-03	77,822
LOWENSTEIN, LEAH M.....	LIPID ABNORM. & ATHEROGENESIS IN CHRONIC RENAL FAILURE.....	3N01 AM42212-01	84,044
SLONE, DENNIS.....	MATERNAL DRUG INGESTION AND FETAL ABNORMALITIES.....	3N01 NS22322-02	20,000
SNIDER, GORDON L.....	ESTABLISHMENT OF AN ANIMAL MODEL OF PULMONARY FIBROSIS.....	1N01 HR53011-00	67,050
SWAZEY, JUDITH P.....	CATEGORICAL RESEARCH TO BASIC SCIENCE RESEARCH-KNOWLEDGE.....	1N01 CO55315-00	75,000
TO BE APPOINTED.....	ONCOLOGY NURSING PROGRAMS IN CANCER CENTERS.....	1N01 CN55142-00	117,179
ORGANIZATION TOTAL	16      2,971,401		
<b>CENTER FOR BLOOD RESEARCH      ZIP CODE 02115</b>			
PENNELL, ROBERT B.....	PREPARATION OF INTRAVENOUS IGG.....	2N01 HB32940-02	33,485
ORGANIZATION TOTAL	1      33,485		
<b>CHILDREN'S HOSPITAL MEDICAL CENTER      ZIP CODE 02115</b>			
BERNHARD, WILLIAM F.....	CLINICAL EVALUATION OF LEFT VENTRICULAR ASSIST DEVICE.....	1N01 HV53007-00	200,616
COLTEN, HARVEY R.....	CARCINOGENS ON THE SYNTHESIS OF COMPLEMENT COMPONENTS.....	2N01 CP45612-01	73,778
GALLOP, PAUL M.....	SEPARATION AND CHARACTERIZATION OF FETAL ELASTIN.....	5N01 HR42941-01	122,685
KEVY, SHERWIN V.....	TOXICITY STUDIES OF PLASTIC DEVICES IN CONTACT W BLOOD.....	9N01 HB52906-00	78,412
NATHAN, DAVID G.....	SICKLING AND HOST RESISTANCE TO INFECTION.....	2N01 HB42973-01	52,023
PARKMAN, ROBERTSON.....	EVALUATION OF HYBRID TUMOR CELLS.....	2N01 CB43876-01	33,000
SMITH, DAVID H.....	HEMOPHILUS INFLUENZAE TYPE B VACCINE.....	2N01 AI42550-01	125,833
YESSAYAN, LIZA.....	PREGNANCY FACTORS AND RESULTANT CHILD OUTCOME.....	5N01 NS80014-09	50,714
ORGANIZATION TOTAL	8      737,061		
<b>FORSYTH DENTAL CENTER      ZIP CODE 02115</b>			
DE PAOLA, PAUL F.....	COMMUNITY CARIES PREVENTIVE DEMONSTRATION PROGRAM.....	1N01 DE52461-00	119,048
ORGANIZATION TOTAL	1      119,048		
<b>HARVARD UNIVERSITY      ZIP CODE 02138</b>			
ADAMS, RAYMOND D.....	CYTOMYELO AND DENDRITIC ARCHITECTURE OF MONKEY BRAIN.....	2N01 NS60940-15	38,000
AMOS, HAROLD.....	ANTITUMOR EFFECTS OF NATURALLY OCCURRING SUGARS.....	1N01 CM53825-00	52,376
BENJAMIN, THOMAS L.....	GENETIC AND BIOCHEMICAL STUDY OF CELLS AND VIRUSES.....	3N01 CP43299-02	99,590
COLE, PHILIP T.....	STUDY OF EPIDEMIOLOGY AND ETIOLOGY OF BREAST CANCER.....	2N01 CP33326-04	40,332
DALEN, JAMES.....	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE.....	2N01 HV22979-04	986,195
DOGON, I LEON.....	COMMUNITY CARIES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52475-00	203,177
JONES, T C.....	STUDY OF ONCOGENIC HERPES VIRUSES.....	2N01 CP33390-04	94,467
LITTLE, JOHN B.....	STUDY OF RESPIRATORY CARCINOGENESIS.....	2N01 CP33273-02	152,937
MORGAN, ALFRED P.....	MULTIVARIATE ANALYSIS OF DIALYSIS EFFICACY.....	2N01 AM42216-01	48,465
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY SERVICES.....	3N01 LM14723-12	27,740
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM SERVICES.....	4N01 LM54724-00	179,239
ROTHMAN, KENNETH J.....	EVALUATING EFFECT OF ANTIFERTILITY AGENTS.....	1N01 HD52801-00	87,130
SALHANICK, HILTON A.....	PROCEDURES FOR INHIBITORS OF PROGESTERONE SYNTHESIS.....	3N01 HD02319-05	38,385
VALLEE, BERT L.....	STUDY OF TUMOR ANGIOGENIC FACTOR.....	2N01 CB43942-01	175,656



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
ORGANIZATION TOTAL	14 2,223,689		
<b>JOSLIN DIABETES FOUNDATION ZIP CODE 02215</b>			
BRADLEY, ROBERT F.....	DIABETIC RETINOPATHY—CLINICAL CENTER.....	5N01 EY42170-01	72,873
ORGANIZATION TOTAL	1 72,873		
<b>MASSACHUSETTS EYE AND EAR INFIRMARY ZIP CODE 02114</b>			
MC MEEL, J WALLACE.....	DIABETIC RETINOPATHY STUDY.....	5N01 EY42172-01	60,917
MC MEEL, J WALLACE.....	EVALUATION OF VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY52144-00	65,803
ORGANIZATION TOTAL	2 126,720		
<b>MASSACHUSETTS GENERAL HOSPITAL ZIP CODE 02114</b>			
ALPERT, MORTON E.....	STUDY OF TUMOR-ASSOCIATED ANTIGENS OF THE GI TRACT.....	2N01 CB43889-01	61,436
BLACK, PAUL H.....	STUDY OF ACTIVATION OF ONCOGENIC VIRUSES.....	2N01 CP43222-02	121,370
BLOCK, PETER.....	QUANTIFICATION OF INFARCT SIZE.....	1N01 HV52992-00	70,000
CORREIA, JOHN A.....	COMPUTERIZED TRANSAXIAL NUCLIDE RECONSTRUCTION.....	1N01 CB53913-00	69,135
FITZPATRICK, THOMAS B.....	DIAGNOSIS OF CUTANEOUS MALIGNANT MELANOMA.....	1N01 CN55225-00	319,996
HERBST, ARTHUR L.....	SYNTHETIC ESTROGENS & GENITAL ANOMALIES IN OFFSPRING.....	2N01 CN45157-02	441,924
KAPLAN, EDWARD M.....	DATA COORDINATING CENTER FOR ANGINA PECTORIS STUDY.....	1N01 HV53027-00	56,762
MUNDTH, ELDRED D.....	STUDY OF CORONARY ARTERY SURGERY.....	2N01 HV32985-06	226,768
NEW, PAUL J.....	CLINICAL EVAL. OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY.....	2N01 CB43983-02	105,000
NOT APPLICABLE.....	PARTICIPATION IN BIOMEDICAL DATA NETWORK.....	2N01 LM24716-06	61,497
PLATE, JANET.....	EFFECTS OF STREPTOCOCCAL SERUM FACTORS ON LYMPHOCYTES.....	1N01 CB53959-00	24,000
POLLEN, DANIEL A.....	STUDY FEASIBILITY OF A SENSORY PROSTHESIS.....	2N01 NS02276-05	81,700
POWELL, WILLIAM J.....	INFARCT SIZE IN EXTRACELLULAR OSMOLALITY.....	1N01 HV53002-00	115,000
ROBINSON, DWIGHT R.....	ROLE OF PROSTAGLANDINS IN MAMMARY GLAND NEOPLASIA.....	2N01 CB33918-02	52,000
ZAMECNIK, PAUL C.....	STUDY OF NUCLEIC ACIDS OF THE AVIAN MYELOBLASTOSIS VIRUS.....	2N01 CP33366-02	140,000
ORGANIZATION TOTAL	15 1,946,588		
<b>MASSACHUSETTS OFFICE OF HUMAN SERVICES ZIP CODE 02202</b>			
DUFFY, BENEDICT.....	PLANNING FOR A CERVICAL CANCER SCREENING CENTER.....	1N01 CN55167-00	45,802
ORGANIZATION TOTAL	1 45,802		
<b>NEW ENGLAND MEDICAL CENTER HOSPITAL ZIP CODE 02111</b>			
BOREL, YVES.....	STUDY OF STIMULATION OF IMMUNOLOGIC RESPONSES.....	2N01 CB43970-01	70,459
MARCHANT, DOUGLAS.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45054-03	280,107
WALLACH, DONALD F.....	ORGANIZ. & DYNAMICS OF CELL SURFACE MEMBRANE COMPONENTS.....	2N01 CB44000-01	88,147
ORGANIZATION TOTAL	3 438,713		
<b>NORTHEASTERN UNIVERSITY ZIP CODE 02115</b>			
SOLOWAY, ALBERT H.....	SYNTHESIS OF CNS ANTITUMOR AGENTS.....	1N01 CM53741-00	55,709
ORGANIZATION TOTAL	1 55,709		
<b>PETER BENT BRIGHAM HOSPITAL ZIP CODE 02115</b>			
BRAUNWALD, EUGENE.....	MINIMIZATION OF INFARCT SIZE.....	1N01 HV53000-00	311,383
DRINKER, PHILIP A.....	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY.....	5N01 HR42918-01	78,000
ORGANIZATION TOTAL	2 389,383		
<b>ROBERT B. BRIGHAM HOSPITAL ZIP CODE 02120</b>			
CHURCHILL, WINTHROP H.....	TUMOR IMMUNITY AND IMMUNOTHERAPY OF RAT MAMMARY TUMOR.....	2N01 CB33896-03	171,916
DAVID, JOHN R.....	QUANTITATIVE ASSAYS OF MONOCYTE-MACROPHAGE FUNCTION.....	1N01 CB53869-00	107,332
SCHUR, PETER H.....	STUDY OF TUMOR-ASSOCIATED ANTIGENS OF THE GI TRACT.....	2N01 CB43958-01	54,296
ORGANIZATION TOTAL	3 333,544		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>SIDNEY FARBER CANCER CENTER</b>	<b>ZIP CODE 02115</b>		
CHESS, LEONARD .....	ISOLATION OF PERIPHERAL BLOOD MONONUCLEAR CELLS .....	2N01 CB43964-01	72,226
CHESS, LEONARD .....	IN VITRO SENSITIZATION OF HUMAN LYMPHOCYTES .....	1N01 CB53881-00	56,512
FOLEY, GEORGE E. ....	ISOLATING TYPE C VIRUS FROM CULTURED HUMAN LEUKEMIC CELL .....	9N01 CP53539-00	118,330
FRECHETTE, ALFRED L. ....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK .....	1N01 CN55229-00	90,282
FREI, EMIL, III. ....	THERAPY OF PATIENTS WITH GASTRIC CARCINOMA .....	2N01 CM43781-03	62,053
FREI, EMIL, III. ....	THERAPY OF PATIENTS WITH PANCREATIC CARCINOMA .....	2N01 CM43799-04	181,208
FREI, EMIL, III. ....	PHASE I STUDIES OF NEW ANTICANCER AGENTS .....	1N01 CM53839-00	94,210
FREI, EMIL, III. ....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA .....	1N01 CM57035-00	125,122
WEINER, ROY S. ....	IMPROVEMENT OF ASSAYS FOR CELL-MEDIATED IMMUNITY .....	2N01 CB43885-01	63,384
ORGANIZATION TOTAL	9 863,327		
<b>TUFTS UNIVERSITY</b>	<b>ZIP CODE 02111</b>		
BLAIR, HENRY E. ....	PREPARE GLUCOCEREBROSIDASE FROM HUMAN PLACENTAL TISSUE .....	1N01 NS52321-00	99,254
GRADY, GEORGE F. ....	PROPHYLAXIS OF PERSONS ACCIDENTALLY EXPOSED TO HAA .....	2N01 HB22951-06	258,616
WHITE, GEORGE E. ....	SYSTEM FOR EARLY DETECTION OF DENTAL CARIES .....	1N01 DE52476-00	75,173
ORGANIZATION TOTAL	3 433,043		
<b>UNIVERSITY HOSPITAL</b>	<b>ZIP CODE 02118</b>		
BLACKLOW, NEIL R. ....	STUDY OF AGENTS OF ACUTE NONBACTERIAL GASTROENTERITIS .....	2N01 AI32505-03	48,000
ORGANIZATION TOTAL	1 48,000		
<b>BURLINGTON</b>			
<b>DIAGNOSTIC ELECTRONICS CORPORATION</b>	<b>ZIP CODE 01803</b>		
WILLIAMS, JAMES B. ....	HIGH RESOLUTION ULTRASONIC IMAGING SYSTEM .....	1N01 HV52967-00	87,010
ORGANIZATION TOTAL	1 87,010		
<b>CAMBRIDGE</b>			
<b>ABCOR, INC.</b>	<b>ZIP CODE 02139</b>		
COOPER, WILLIAM W. ....	STUDY OF CLINICAL SAFETY OF FROZEN-THAWED RED CELLS .....	3N01 HB42925-01	36,722
NUWAYSER, ELIE S. ....	DEVELOPMENT OF NEW STERILIZATION TECHNIQUES .....	2N01 HD12227-05	186,476
NUWAYSER, ELIE S. ....	STUDY OF DELIVERY OF DRUGS TO THE CERVIX .....	3N01 HD32738-03	160,589
NUWAYSER, ELIE S. ....	DEVELOPMENT OF MICROFABRIC SURFACES .....	2N01 HV12047-11	43,835
WILLIAMS, DAVID L. ....	AEROSOL OF MICROCAPSULES FOR CARIOSTATIC AGENTS .....	1N01 DE52448-00	164,466
ORGANIZATION TOTAL	5 592,088		
<b>AMERICAN SCIENCE AND ENGINEERING</b>	<b>ZIP CODE 02139</b>		
COBB, CAROLUS. ....	UPTAKE OF 67GA BY CELLS FROM THE HUMAN UTERINE CERVIX .....	1N01 CB53931-00	49,633
STEIN, JAY A. ....	COMPUTERIZED TRANSAXIAL X-RAY RECONSTRUCTION .....	1N01 CB53858-00	500,000
ORGANIZATION TOTAL	2 549,633		
<b>ARTHUR D. LITTLE, INC.</b>	<b>ZIP CODE 02140</b>		
BURG, ALAN W. ....	STUDY OF CONTRACEPTIVE DRUGS .....	3N01 HD42802-02	195,625
CARTER, JERRY J. ....	STUDY OF MUTAGENIC ACTIVITY OF 85 COMPOUNDS .....	2N01 CP33392-03	144,047
KENSLE, CHARLES J. ....	COORDINATED PROGRAM IN CANCER CHEMOTHERAPY .....	3N01 CM33727-06	855,077
KETTERINGHAM, JOHN M. ....	PREPARATION OF POLYALKYLSULFONE HOMO- AND CO-POLYMERS .....	2N01 HB32916-03	123,286
MERKER, PHILIP .....	EVALUATION OF COMBINED CHEMOTHERAPY AND MODALITY STUDIES .....	1N01 CM53765-00	728,308
SIVAK, ANDREW .....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS .....	1N01 CP55711-00	304,655
THAYER, PHILIP A. ....	BIOASSAYS OF THE CYTOTOXICITY OF CIGARETTE SMOKE .....	3N01 CP33284-05	15,165
WECHSLER, A. E. ....	BIOMEDICAL ENGINEERING RESEARCH SERVICES .....	3N01 CM23711-06	159,335
WODINSKY, I. ....	PRIMARY IN VIVO SCREENING FOR ANTICANCER ACTIVITY .....	1N01 CM57006-00	835,287
YESAIR, DAVID W. ....	PHARMACOLGGY AND TUMOR BANK .....	1N01 CM53849-00	1,153,111

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
ORGANIZATION TOTAL	10	4,513,896	
<b>BOLT, BERANEK, AND NEWMAN ZIP CODE 02138</b>			
CASTLEMAN, PAUL A.....	DEVELOPMENT OF SOFTWARE FOR DATA-PROCESSING PROGRAMS.....	5N01 RR42147-05	477,432
KALIKOW, DANIEL N.....	INSTRUMENT FOR ASSESSING SPEECH DISCRIMINATION.....	3N01 NS42322-02	40,904
ORGANIZATION TOTAL	2	518,336	
<b>ENVIRONMENTAL IMPACT CENTER ZIP CODE 02139</b>			
BRUMMER, S BARRY.....	STUDY OF ELECTRICAL STIMULATION OF THE NERVOUS SYSTEM.....	2N01 NS32313-04	85,574
ORGANIZATION TOTAL	1	85,574	
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY ZIP CODE 02139</b>			
BALTIMORE, DAVID.....	STUDIES OF LEUKEMIA VIRUS DNA POLYMERASE.....	9N01 CP53562-00	142,055
CATSIMPOOLAS, NICHOLAS.....	LYMPHOCYTES AND MACROPHAGES.....	2N01 CB43928-02	111,441
HECHT, SIDNEY M.....	SYNTHESIS OF BLEOMYCIN & STRUCTURAL MODIFICATIONS.....	5N01 CM43712-02	65,051
ROGERS, ADRIANNE E.....	DIET AND CHEMICAL CARCINOGENESIS STUDY.....	2N01 CP33238-03	126,755
WOLF, GEORGE D.....	ROLE OF VITAMIN A IN RESPIRATORY TRACT CARCINOGENESIS.....	3N01 CP43253-01	101,259
ORGANIZATION TOTAL	5	546,561	
<b>EVERETT</b>			
<b>AVCO CORPORATION—EVERETT RESEARCH LABORATORY ZIP CODE 02149</b>			
NYILAS, EMERY.....	DEVELOPMENT AND TESTING OF SPECIMENS.....	2N01 HB32917-03	62,950
NYILAS, EMERY.....	IMPROVED BIOLOGICAL TEST PROCEDURES FOR BLOOD EVALUATION.....	5N01 HB42961-02	141,944
ORGANIZATION TOTAL	2	204,894	
<b>FRAMINGHAM</b>			
<b>FRAMINGHAM UNION HOSPITAL ZIP CODE 01701</b>			
TEDESCHI, LUKE.....	PERFORMANCE OF BETA QUANTIFICATIONS.....	2N01 HV02243-05	5,317
ORGANIZATION TOTAL	1	5,317	
<b>MAYNARD</b>			
<b>DIGITAL EQUIPMENT CORPORATION ZIP CODE 01754</b>			
STREET, DAVID.....	PROCESSOR, CORE MEMORY UNITS, DISC AND DRUM SYSTEM.....	3N01 RR12524-17	14,154
ORGANIZATION TOTAL	1	14,154	
<b>SHREWSBURY</b>			
<b>WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY ZIP CODE 01545</b>			
BRODIE, HARRY J.....	INHIBITORS TO ESTROGEN BIOSYNTHESIS.....	3N01 HD02158-07	71,522
BURSTEIN, SUMNER H.....	ROLE OF PROSTAGLANDINS IN MAMMARY GLANDS.....	2N01 CB33920-03	34,500
DAVIS, BRIAN K.....	STUDY OF CONTROL OF SPERM-FERTILIZING CAPACITY.....	2N01 HD32781-04	72,180
FAIRBANKS, GRANT.....	CHARACTERIZATION OF MAMMARY EPITHELIAL CELL MEMBRANE.....	2N01 CB33908-02	40,500
LONGCOPE, CHRISTOPHER L.....	STUDY OF BREAST CANCER ESTRIOL DYNAMICS.....	2N01 CB33902-03	42,450
MAUDSLEY, DAVID V.....	ROLE OF CYCLIC AMP IN MAMMARY GLAND NEOPLASIA.....	2N01 CB33919-04	57,000
WELSCH, FEDERICO.....	STUDY OF ESTROGEN-BINDING AND ESTROPHILE PROTEINS.....	2N01 CB43867-03	70,700
WELSCH, FEDERICO.....	MEASUREMENT OF STEROID SULFATE CONTENT IN BLOOD.....	2N01 CB43898-01	98,300
WILLIAMS, KENNETH I.....	STUDY OF STEROIDAL ORAL CONTRACEPTIVES.....	3N01 HD12294-06	16,200
WILLIAMS, KENNETH I.....	EFFECT OF DRUGS ON CONTRACEPTIVE STEROID METABOLISM.....	2N01 HD32719-04	12,600
WILLIAMS, KENNETH I.....	METABOLIC EFFECTS OF STEROIDAL CONTRACEPTIVES.....	9N01 HD52858-00	184,005
ORGANIZATION TOTAL	11	699,957	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>WALTHAM</b>			
<b>COLLABORATIVE RESEARCH, INC.</b>	<b>ZIP CODE 02154</b>		
FRIEDMAN, ORRIE M.	PREPARATION OF POLYMERIC MATERIALS	2N01 CM12326-05	90,495
FRIEDMAN, ORRIE M.	STUDY OF ENZYMES AND PRODUCTION OF HOMOFOLIC ACID	2N01 CM60506-17	89,544
ORGANIZATION TOTAL	2 180,039		
<b>EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION</b>	<b>ZIP CODE 02154</b>		
MILUNSKY, AUBREY	COLLECTION OF DATA ON MIDTRIMESTER	3N01 HD12451-06	1,550
ORGANIZATION TOTAL	1 1,550		
<b>FIRST DATA CORPORATION</b>	<b>ZIP CODE 02154</b>		
FRIESEN, DAVID D.	COMPUTER SYSTEM	3N01 RR22019-09	546,844
ORGANIZATION TOTAL	1 546,844		
<b>THERMO ELECTRON CORPORATION</b>	<b>ZIP CODE 02154</b>		
BORNHORST, WALTER J.	IMPLANTABLE ARTIFICIAL HEART DEVICES	3N01 HV12065-10	336,478
BORNHORST, WALTER J.	DEVELOPMENT OF FLOCKING MATERIALS	3N01 HV32915-06	114,540
FINE, DAVID	METHODS OF N-NITROSO COMPOUNDS	2N01 CP45623-02	99,885
HAGEN, KENNETH G.	DEVELOPMENT OF CIRCULATORY-DEVICE POWER SYSTEM	2N01 HV42909-01	666,994
HAGEN, KENNETH G.	BLOOD PUMP STUDIES AS RESULT OF ENDOGENOUS HEAT RESEARCH	9N01 HV52909-00	135,376
HUFFMAN, FRED N.	EVALUATION OF LEFT VENTRICULAR-ASSIST PUMPS	3N01 HV32946-03	907,535
HUFFMAN, FRED N.	DEVELOPMENT OF CARDIAC-ASSIST DEVICES	3N01 HV42910-04	318,283
HUFFMAN, FRED N.	STUDY OF EFFECT OF ENDOGENOUS HEAT	3N01 HV60982-15	23,583
KEISER, JOHN M.	LEFT VENTRICULAR ASSIST DEVICE: CLINICAL EVALUATION	1N01 HV53008-00	384,405
TO BE APPOINTED	PRODUCTION AND DELIVERY OF THERMAL ENERGY ANALYZERS	4N01 CP55715-00	250,000
ORGANIZATION TOTAL	10 3,237,079		
<b>WHITTAKER CORPORATION—SPACE SCIENCES DIVISION</b>	<b>ZIP CODE 02154</b>		
AISENBERG, SOL	APPLICATION OF COATINGS TO SUBSTRATE MATERIALS	2N01 HB32919-04	48,597
AISENBERG, SOL	DEVELOPMENT OF AN IMPLANTABLE OXYGEN SENSOR	2N01 HR33003-02	178,065
SHEENA, DAVID	DEVELOPMENT OF PHOTOGRAPHIC TECHNIQUE FOR ANGIOGRAPHY	2N01 EY32132-03	25,536
ORGANIZATION TOTAL	3 252,198		
<b>WILMINGTON</b>			
<b>CHARLES RIVER BREEDING LABORATORIES</b>	<b>ZIP CODE 01887</b>		
FOSTER, HENRY L.	OPERATION OF A GERM-FREE RODENT COLONY	1N01 CM53812-00	1,005,849
FOSTER, HENRY L.	RODENT PRODUCTION CENTER IN MODIFIED ENVIRONMENT	1N01 CM53848-00	195,080
FOSTER, HENRY L.	SUPPORT FOR LONG-TERM RAT COLONY	2N01 HD32725-05	97,854
FOSTER, HENRY L.	SUPPLY OF MICE FOR AGING STUDIES	2N01 HD42811-03	104,116
FOSTER, HENRY L.	SUPPLY OF AGING RATS IN ISOLATOR ENVIRONMENT	5N01 HD42843-01	47,624
FOSTER, HENRY L.	FEASIBILITY OF DOMESTIC PRODUCTION OF RHESUS MONKEYS	1N01 RR52132-00	99,081
OTIS, ALBERT P.	MAINTAIN GENETIC CENTER	2N01 CM22004-07	270,780
PUCAK, GEORGE J.	GNOTOBIOTE ORIGINATED RODENT PRODUCTION COLONY	1N01 CP55651-00	133,177
ORGANIZATION TOTAL	8 1,953,561		
<b>WORCESTER</b>			
<b>E G &amp; G, INC.—MASON RESEARCH CENTER</b>	<b>ZIP CODE 01608</b>		
BAKER, JOHN	CARCINOGENESIS BIOASSAY OF ENVIRONMENTAL CHEMICALS	3N01 CP43297-02	31,628
BOGDEN, ARTHUR E.	DEVELOPMENT OF NEW IN VIVO TUMOR SYSTEMS	1N01 CM57030-00	142,581
BOGDEN, ARTHUR E.	IMMUNOLOGICAL CHARACTERIZATION STUDIES	2N01 CB31146-31	164,300
BOGDEN, ARTHUR E.	EVALUATION OF CANCER THERAPEUTIC AGENTS	2N01 CB43914-01	126,300
BOGDEN, ARTHUR E.	IN VIVO SCREENING FOR ANTICANCER ACTIVITY	1N01 CM57003-00	935,075

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
BOGDEN, ARTHUR E.....	ROLE OF HORMONES IN INDUCTING BREAST TUMORS.....	2N01 CP33358-02	100,964
GRALLA, EDWARD J.....	CHELATING AGENTS FOR THE TREATMENT OF COOLEY'S ANEMIA.....	1N01 AM52212-00	54,510
KRAMER, ANNE W.....	COMPUTING SERVICES IN CLINICAL AND DIAGNOSTIC TRIALS.....	9N01 CP53524-00	93,058
LISIECKI, EDWIN J.....	BIOLOGICAL RESOURCES MANAGEMENT INFORMATION SYSTEM.....	9N01 CP53531-00	142,143
MASON, MARCUS M.....	COMPILATION OF ANTI-UTEROTROPIC ASSAY DATA.....	3N01 CB44010-01	3,576
MASON, MARCUS M.....	STUDY OF CARCINOGENS AND THEIR EFFECT ON THE PROSTATE.....	2N01 CP23238-04	97,839
ROSENKRANTZ, H.....	EVALUATION OF ACTIVITY OF ANTIFERTILITY DRUGS & DEVICES.....	3N01 HD22746-09	463,828
ORGANIZATION TOTAL	12 2,355,802		
<b>MEMORIAL HOSPITAL ZIP CODE 01605</b>			
LEVINE, PETER H.....	STUDY OF FACTOR VIII INHIBITOR IN HEMOPHILIA.....	1N01 HB53019-00	32,644
ORGANIZATION TOTAL	1 32,644		
<b>ST. VINCENT HOSPITAL ZIP CODE 01610</b>			
FRIEDEL, GILBERT H.....	SUPPORT FOR PATHOLOGY LABORATORY.....	3N01 CB80704-14	19,000
ORGANIZATION TOTAL	1 19,000		
STATE TOTAL	171 29,470,232		
<b>MICHIGAN</b>			
<b>ANN ARBOR</b>			
<b>UNIVERSITY OF MICHIGAN ZIP CODE 48104</b>			
BLANKESPOOR, HARVEY D.....	SUPPLY OF SCHISTOSOME-INFECTED ANIMALS.....	3N01 A42504-01	113,749
BORER, ROBERT.....	NEONATAL RESPIRATORY INSUFFICIENCY-EDUCATIONAL PROGRAM.....	1N01 HR52960-00	216,112
GARN, STANLEY M.....	DEVELOPMENT OF PHYSICAL GROWTH MEASUREMENT DATA.....	1N01 NS52308-00	149,124
HAWKINS, JOSEPH E, JR.....	EFFECT OF NOISE AND OTOTOXIC DRUGS ON HEARING LOSS.....	5N01 ES22110-08	95,000
HIGUCHI, WILLIAM I.....	SYSTEMS APPROACH TO VAGINAL CONTRACEPTIVE DRUGS.....	3N01 HD32740-03	61,115
KAHN, RAYMOND H.....	ORGAN CULTURE DEVELOPMENT OF HUMAN AND ANIMAL PROSTATE.....	9N01 CP55720-00	122,274
KAHN, RAYMOND H.....	DEVELOP INTIMAL LININGS UTILIZING SERUM.....	2N01 HB12054-10	150,895
MC NAMARA, JAMES A, JR.....	MECHANISMS OF MUSCLE REATTACHMENT AND MIGRATION.....	1N01 DE52478-00	114,636
NAPIER, EDWARD A, JR.....	STUDY OF COMMON PLASTICIZERS IN HUMANS.....	3N01 HB32936-05	8,700
NAPIER, EDWARD A, JR.....	TOXICITY AND METABOLISM OF COMMON PLASTICIZERS IN HUMANS.....	9N01 HB52902-00	37,463
SCHOCH, HENRY K.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52913-00	105,118
SCHULTZ, JEROME S.....	COMPATIBILITY OF MATERIALS IN CONTACT WITH BLOOD.....	5N01 HB42962-02	90,813
SHREFFLER, DONALD C.....	DETECTION AND DEVELOPMENT OF GENETIC STRAINS.....	3N01 CB43936-01	18,865
WHITEHOUSE, WALTER M.....	EARLY DETECTION OF CANCER OF THE BREAST.....	2N01 CN45049-02	200,470
ORGANIZATION TOTAL	14 1,484,334		
<b>DETROIT</b>			
<b>ASH STEVENS, INC. ZIP CODE 48202</b>			
ASH, ARTHUR B.....	RESYNTHESIS OF BULK CHEMICALS AND DRUGS.....	1N01 CM57012-00	236,600
ORGANIZATION TOTAL	1 236,600		
<b>CHILD RESEARCH CENTER OF MICHIGAN ZIP CODE 48201</b>			
STULBERG, CYRIL S.....	STUDY OF IDENTIFICATION OF CANCER CELLS IN VITRO.....	2N01 CP33333-03	135,000
ORGANIZATION TOTAL	1 135,000		
<b>HENRY FORD HOSPITAL ZIP CODE 48202</b>			
GOLDSTEIN, SIDNEY.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52925-00	153,242
ORGANIZATION TOTAL	1 153,242		

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MICHIGAN—Continued</b>			
<b>MICHIGAN CANCER FOUNDATION</b>	<b>ZIP CODE 48201</b>		
ALBERT, SAMUEL.....	COLLECTION OF LARGE QUANTITIES OF HUMAN MILK.....	2N01 CP43391-01	100,000
BRENNAN, MICHAEL J.....	DETERMINE OPTIMAL FREQUENCY OF SCREENING STRATEGIES.....	1N01 CB53907-00	114,412
BRENNAN, MICHAEL J.....	INELASTIC LASER LIGHT-SCATTERING STUDIES.....	3N01 CP33226-03	266,790
BRENNAN, MICHAEL J.....	STUDY OF HIGH-RISK BREAST-CANCER FAMILIES.....	2N01 CP33347-06	530,000
BRENNAN, MICHAEL J.....	SUPPORT FOR POPULATION-BASED CANCER REGISTRY.....	3N01 CP43264-01	468,842
KESSEL DAVID.....	CHARACTERIZATION OF ANTITUMOR DRUGS.....	1N01 CM53789-00	55,089
ORGANIZATION TOTAL	6 1,535,133		
<b>MICHIGAN STATE DEPARTMENT OF MENTAL HEALTH-LAFAYETTE CLINIC</b>	<b>ZIP CODE 48207</b>		
RODIN, E.....	EVALUATION OF CARBAMAZEPINE IN EPILEPSY.....	3N01 NS22310-03	55,341
ORGANIZATION TOTAL	1 55,341		
<b>NATIONAL ASSOCIATION FOR SICKLE CELL DISEASE</b>	<b>ZIP CODE 48235</b>		
WHITTEN, CHARLES E.....	SICKLE CELL EDUCATION PROGRAM.....	1N01 HB53032-00	200,000
ORGANIZATION TOTAL	1 200,000		
<b>PARKE, DAVIS &amp; COMPANY</b>	<b>ZIP CODE 48207</b>		
DION, H W.....	SUPPLY OF NEW ANTINEOPLASTIC DRUGS.....	3N01 CM43754-01	661,650
ELSLAGER, EDWARD F.....	PREPARATION OF BULK CHEMICALS AND DRUGS.....	3N01 CM23708-06	327,684
ORGANIZATION TOTAL	2 989,334		
<b>WAYNE STATE UNIVERSITY</b>	<b>ZIP CODE 48202</b>		
JANZEN, ERICA.....	ONCOLOGY NURSING PROGRAMS.....	1N01 CN55239-00	96,910
LUSHER, JEANNE M.....	COOPERATIVE STUDY OF FACTOR VIII IN HEMOPHILIA.....	1N01 HB53025-00	92,020
MARGHERIO, RAYMOND R.....	DIABETIC RETINOPATHY STUDY—CLINICAL CENTER.....	5N01 EY42171-01	50,064
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM SERVICES.....	4N01 LM54715-00	213,972
PRASAD, ANADA S.....	STUDY OF SICKLE CELL DISEASE.....	2N01 HB22918-04	105,700
PRASAD, ANADA S.....	CONTRACEPTIVE STEROIDS AND DIETARY NUTRIENTS.....	2N01 HD22786-05	7,195
ROSE, NOEL R.....	IMMUNOLOGIC STUDIES OF VASECTOMY.....	1N01 HD52841-00	61,950
ORGANIZATION TOTAL	7 627,811		
<b>EAST LANSING</b>			
<b>MICHIGAN STATE UNIVERSITY</b>	<b>ZIP CODE 48823</b>		
DAUGHERTY, SANDRA A.....	STUDY OF HYPERTENSION.....	2N01 HV22939-07	971,807
KALLEN, DAVID J.....	FACTORS INFLUENCING CONTRACEPTION IN UNMARRIED STUDENTS.....	1N01 HD52803-00	73,240
MAATSCH, JACK.....	STUDY FOR SIMULATION TECHNOLOGY IN MEDICAL EDUCATION.....	1N01 LM54752-00	96,264
NOT APPLICABLE.....	INSTRUCTIONAL MATERIALS IN NEUROPATHOLOGY AND NEUROLOGY.....	1N01 LM54704-00	88,170
SWEENEY, CHARLES C.....	ISOLATE & EVALUATE PRODUCTS FROM PLASMA FRACTIONATION.....	5N01 HB42947-01	116,919
ORGANIZATION TOTAL	5 1,346,400		
<b>KALAMAZOO</b>			
<b>UPIJOHN COMPANY</b>	<b>ZIP CODE 49002</b>		
NEIL, GARY L.....	SUPPLY OF ANTINEOPLASTIC ANTIBIOTICS.....	5N01 CM43753-02	1,248,400
ORGANIZATION TOTAL	1 1,248,400		
<b>LANSING</b>			
<b>MICHIGAN DEPARTMENT OF PUBLIC HEALTH</b>	<b>ZIP CODE 48914</b>		
ISBISTER, JOHN L.....	STATE CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45076-02	161,833
MC CALL, KEITH B.....	PREPARATION OF GAMMA GLOBULIN.....	2N01 HB32941-04	84,172
OLSEN, B H.....	TISSUE-CULTURE ASSAYS.....	2N01 CM33702-03	54,166



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MICHIGAN—Continued</b>			
SZWEJDA, LOUIS F.....	COMMUNITY CARES PREVENTION DEMONSTRATION PROJECTS.....	1N01 DE52466-00	171,240
WILCOX, KENNETH R, JR.....	IMPROVED METHOD FOR INACTIVATION OF RABIES VIRUS.....	2N01 AI12199-03	47,730
ORGANIZATION TOTAL	5 519,141		
<b>MIDLAND</b>			
<b>DOW CHEMICAL COMPANY ZIP CODE 48640</b>			
BARKLEY, EMMETT W.....	RESEARCH AND DEVELOPMENT OF BIOHAZARDS FACILITIES.....	2N01 CP33243-04	344,630
COLLINS, G R.....	PREPARATION OF BULK CHEMICALS AND DRUGS.....	1N01 CM53768-00	220,620
MALELLO, J A.....	EFFECTS OF ANTICANCER AGENTS ON REPRODUCTION.....	2N01 CM23712-04	239,063
SCHWETZ, B A.....	EFFECT OF ENVIRONMENT ON REPRODUCTION AND ONCOGENESIS.....	2N01 ES32102-05	297,615
TREPANIER, D L.....	SYNTHESIS OF DERIVATIVES OF 3-FORMYLRIFAMYCIN-SV.....	5N01 CM33724-02	148,915
ORGANIZATION TOTAL	5 1,250,843		
STATE TOTAL	50 9,781,579		
<b>MINNESOTA</b>			
<b>AUSTIN</b>			
<b>UNIVERSITY OF MINNESOTA ZIP CODE 55912</b>			
JENKIN, HOWARD M.....	IN VITRO CULTIVATION OF TREPONEMA PALLIDUM.....	2N01 AI42537-01	72,000
ORGANIZATION TOTAL	1 72,000		
<b>DULUTH</b>			
<b>UNIVERSITY OF MINNESOTA ZIP CODE 55812</b>			
CARTER, ROBERT E.....	STUDY OF EFFECT OF ASBESTOS FIBERS ON TISSUES.....	3N01 ES42149-03	3,000
ORGANIZATION TOTAL	1 3,000		
<b>MINNEAPOLIS</b>			
<b>HENNEPIN COUNTY MEDICAL CENTER ZIP CODE 55415</b>			
SHAPIRO, FRED L.....	ASSESSMENT OF ADEQUACY OF DIALYSIS.....	2N01 AM22225-03	86,338
WATHEN, RONALD L.....	ACID-BASE REGULATION IN HEMODIALYSIS.....	1N01 AM52221-00	89,628
ORGANIZATION TOTAL	2 175,966		
<b>HONEYWELL ZIP CODE 55408</b>			
TO BE APPOINTED.....	CLINICAL LABORATORY INFORMATION SYSTEM.....	3N01 CL42174-02	25,684
ORGANIZATION TOTAL	1 25,684		
<b>MINNEAPOLIS WAR MEMORIAL BLOOD BANK ZIP CODE 55404</b>			
POLESKY, H F.....	HISTOCOMPATIBILITY ANTIGENS-POOR BLOOD.....	2N01 HB12410-05	32,245
ORGANIZATION TOTAL	1 32,245		
<b>MINNESOTA DEPARTMENT OF HEALTH ZIP CODE 55440</b>			
FINKELSTEIN, SIDNEY.....	CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55264-00	312,500
ORGANIZATION TOTAL	1 312,500		
<b>MOUNT SINAI HOSPITAL ZIP CODE 55404</b>			
SEGAL, MARVIN S.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52926-00	124,017
ORGANIZATION TOTAL	1 124,017		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MINNESOTA—Continued</b>			
<b>NORTH STAR RESEARCH AND DEVELOPMENT INSTITUTE      ZIP CODE 55406</b>			
PETERSEN, ROBERT J.	EVALUATION OF FLUOROPOLYMER MEMBRANES IN OXYGENATORS	9N01 HB52940-00	70,050
ROZELLE, LEE T.	PROVIDE MEMBRANES FOR EVALUATION IN BLOOD OXYGENATORS	3N01 HB12364-08	3,968
ORGANIZATION TOTAL	2      74,018		
<b>UNIVERSITY OF MINNESOTA      ZIP CODE 55455</b>			
BANTLI, HEINRICH	ELECTRICAL STIMULATION OF THE CEREBELLUM	2N01 NS42332-01	80,152
BARTSCH, GLENN E.	EARLY VITRECTOMY IN DIABETIC RETINOPATHY	1N01 EY52147-00	283,125
BLACKBURN, HENRY	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE	2N01 HV22976-04	167,383
BLACKSHEAR, PERRY L.	STUDY OF FLUID DYNAMICS OF BLOOD CELLS	2N01 AM22207-05	78,193
BLACKSHEAR, PERRY L.	DEVELOPMENT OF IMPLANTABLE LEFT VENTRICULAR ASSIST PUMP	2N01 HV32967-04	30,247
EDSON, J. ROGER	COOPERATIVE STUDY OF FACTOR VII INHIBITOR IN HEMOPHILIA	1N01 HB53022-00	74,136
FISCH, ROBERT	RESEARCH PREGNANCY FACTORS AND RESULTANT CHILD OUTCOME	3N01 NS80009-13	49,579
FRANTZ, IVAN D, JR.	SUPPORT FOR LIPID RESEARCH CLINIC	2N01 HV22915-04	1,670,000
GILBERTSON, VICTOR A.	SCREENING TECHNIQUE FOR DETECTING EARLY CANCER OF BOWEL	1N01 CB53862-00	308,437
GILBERTSON, VICTOR A.	IMPACT OF MULTISITE SCREENING ON CANCER MORTALITY	1N01 CB53906-00	69,212
GIMNIT, ROBERT J.	A COMPREHENSIVE EPILEPSY PROGRAM	1N01 NS52327-00	878,062
HALBEIG, FRANY	RHYTHMOMETRY ON FEMALE VOLUNTEERS OF DIFFERENT AGES	1N01 CP55702-00	269,600
KERSEY, JOHN H.	IMMUNODEFICIENCY-CANCER REGISTRY	2N01 CP43384-03	25,975
LAZAROW, ARNOLD	INDEX OF DIABETES-RELATED LITERATURE	2N01 AM70663-14	102,221
LILJEMARK, WILLIAM F.	AGENTS AFFECTING ADHERENCE OF CARIOGENIC MICROORGANISMS	2N01 DE22407-03	35,495
MC KHANN, CHARLES F.	ROLE OF CIRCULATING TUMOR ANTIGENS IN IMMUNOTHERAPY	2N01 CB43946-01	85,000
MC KHANN, CHARLES F.	STUDY OF ANTIGENS OF SOLID TUMORS	2N01 CP92061-11	59,425
NAJARIAN, JOHN S.	COLLECTION OF SERA FROM HIGH-CANCER RISK PATIENTS	2N01 CB33915-02	78,255
PLAGEMANN, PETER G.	CHARACTERIZATION OF ANTITUMOR DRUGS—DRUG MECHANISMS	5N01 CM43788-01	65,948
QUIE, PAUL G.	PNEUMOCOCCAL OTITIS MEDIA IN ANIMAL MODEL	1N01 AI52533-00	69,970
SCHMIDTKE, JON R.	MACROPHAGES IN TUMOR IMMUNOLOGY	2N01 CB43948-01	70,738
SCHUMAN, LEONARD M.	STUDY OF CANCER MORTALITY	2N01 CP33325-02	20,715
SCHUMAN, LEONARD M.	THIRD NATIONAL CANCER SURVEY	3N01 CP90045-13	6,306
SIMMONS, RICHARD L.	STUDY OF IMMUNOTHERAPY OF PATIENTS WITH CANCER	2N01 CB23885-02	102,449
VENNES, JACK A.	ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY	1N01 AM52213-00	66,891
VESLEY, DONALD	TRAINING COURSES ON LABORATORY BIOHAZARDS	2N01 CP43285-01	84,810
WATTENBERG, LEE W.	STUDY OF POLYCYCLIC HYDROCARBON METABOLISM	2N01 CP33364-02	123,195
YUNIS, EDMOND J.	HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION	2N01 AI22530-04	94,229
YUNIS, EDMOND J.	ASSAYS FOR IMMUNE DEPRESSION IN CANCER PATIENTS	2N01 CB43853-01	117,366
ORGANIZATION TOTAL	29      5,167,114		
<b>ROCHESTER</b>			
<b>MAYO FOUNDATION      ZIP CODE 55901</b>			
AHMANN, DAVID L.	CHEMOTHERAPY UTILIZING 5-FU, CYTOXAN AND PREDNISONE	2N01 CB33899-02	90,000
AHMANN, DAVID L.	CHEMOTHERAPY STUDIES IN PATIENTS WITH BREAST CANCER	1N01 CM53772-00	243,067
BAKER, HILLIER L, JR.	CLINICAL EVAL. OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY	5N01 CB43982-01	133,285
BARNHORST, DONALD A.	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY	2N01 HV32984-05	116,405
BEAHR, OLIVER H.	DEMONSTRATION OF CANCER REHABILITATION FACILITIES	5N01 CM45120-01	257,320
DI MAGNO, EUGENE P.	PHYSIOLOGICAL REFLUX IN THE PANCREATIC DUCT	1N01 CP55660-00	98,300
DOUGLASS, BRUCE E.	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NEWTORK	1N01 CM55242-00	279,708
DYCK, PETER J.	HISTOLOGIC AND LIPID EVALUATION OF BIOPSIED NERVE	2N01 AM22200-05	79,620
EDMONSON, J. H.	STUDIES OF PATIENTS WITH SOLID DISSEMINATED TUMORS	1N01 CM57044-00	400,000
FONTANA, R. S.	DETECTION AND LOCALIZATION OF BRONCHOGENIC CARCINOMA	9N01 CB53886-00	708,627
GO, VAYLIANG L.	DIAGNOSTIC STUDY OF CARCINOMA OF THE BOWEL	2N01 CB23854-03	187,573
GO, VAYLIANG L.	EARLY DIAGNOSIS OF PANCREATIC CANCER	5N01 CB43895-01	143,512
HARRISON, CARLOS E.	DEVELOPMENT OF ULTRASONIC DETECTION OF ATHEROSCLEROSIS	3N01 HV42904-01	302,306
HOUSER, OTIS	TOMOGRAPHY IN CEREBROVASCULAR DISEASE	5N01 NS42333-01	123,080
KUEPPERS, FRIEDRICH	IN VITRO TEST FOR SARCOIDOSIS	5N01 HR42959-01	40,410
MILLER, R. DREW	STUDIES OF RISK FACTORS FOR COPD	2N01 HR22942-05	53,180
MOERTEL, CHARLES G.	CANCER IMMUNOTHERAPY: PHASE I STUDY	1N01 CB53874-00	141,449
MOERTEL, CHARLES G.	NEW DRUGS FOR TREATMENT OF GASTROINTESTINAL CANCER	2N01 CM02066-10	100,000

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MINNESOTA—Continued</b>			
MOERTEL, CHARLES G.....	THERAPY OF PATIENTS WITH GASTRIC CANCER .....	2N01 CM43783-02	122,045
MOERTEL, CHARLES G.....	THERAPY OF PATIENTS WITH PANCREATIC CARCINOMA .....	2N01 CM43796-02	203,841
MOERTEL, CHARLES G.....	PHASE I STUDIES OF NEW ANTICANCER AGENTS .....	1N01 CM53838-00	165,715
MOERTEL, CHARLES G.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA .....	1N01 CM57033-00	151,703
ROBB, RICHARD A.....	TEST ALGORITHMS—COMPUTERIZED TRANSAXIAL RECONSTRUCTION .....	1N01 CB53857-00	58,126
SCHUTT, ALLAN J.....	ESTABLISHMENT AND MAINTENANCE OF BLOOD SERUM BANK .....	2N01 CB23879-03	111,500
SIEKERT, ROBERT G.....	BIBLIOGRAPHY ON CEREBROVASCULAR DISEASES.....	2N01 NS60933-11	27,000
TOFT, DAVID O.....	ROLE OF STEROID HORMONE RECEPTOR IN REPRODUCTIVE BIOLOGY.....	2N01 HD32769-05	93,160
ORGANIZATION TOTAL	26 4,430,932		
<b>SAINT PAUL</b>			
<b>PLANNED PARENTHOOD OF MINNESOTA ZIP CODE 55104</b>			
HANSON, MILDRED.....	CLINICAL STUDY OF ESTROGENS AS POSTCOITAL CONTRACEPTIVES.....	2N01 HD32762-03	53,777
ORGANIZATION TOTAL	1 53,777		
STATE TOTAL	66 10,471,253		
<b>MISSISSIPPI</b>			
<b>JACKSON</b>			
<b>MISSISSIPPI STATE BOARD OF HEALTH ZIP CODE 39205</b>			
TO BE APPOINTED.....	EXPANSION OF MISSISSIPPI'S CERVICAL CANCER SCREENING .....	5N01 CN45086-02	141,748
ORGANIZATION TOTAL	1 141,748		
<b>UNIVERSITY OF MISSISSIPPI MEDICAL CENTER ZIP CODE 39216</b>			
BYERS, BENJAMIN R.....	IRON CHELATING AGENTS IN TREATMENT OF COOLEY'S ANEMIA.....	5N01 AM42226-01	33,764
HUTCHINSON, RICHARD G.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52912-00	130,729
JABALEY, MICHAEL E.....	CANCER CONTROL PROJECT FOR HEAD AND NECK CANCER .....	1N01 CN55254-00	185,067
LANGFORD, HERBERT G.....	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION .....	2N01 HV12437-07	300,905
ORGANIZATION TOTAL	4 650,465		
<b>UNIVERSITY</b>			
<b>UNIVERSITY OF MISSISSIPPI ZIP CODE 38677</b>			
BAKER, JOHN K.....	DEVELOPMENT OF N-NITROSO COMPOUNDS .....	2N01 CP43347-01	44,675
ORGANIZATION TOTAL	1 44,675		
STATE TOTAL	6 836,888		
<b>MISSOURI</b>			
<b>COLUMBIA</b>			
<b>CANCER RESEARCH CENTER ZIP CODE 65201</b>			
RODES, NED D.....	SUPPORT OF CANCER-DETECTION PROGRAM.....	2N01 CN45095-01	274,960
TALBOT, TIMOTHY R, JR.....	DEVELOPMENT OF ADMINISTRATIVE AND FISCAL PROFILES .....	3N01 CQ45056-02	63,503
ORGANIZATION TOTAL	2 338,463		
<b>MISSOURI DEPARTMENT OF SOCIAL SERVICES—ELLIS FISCHEL STATE CANCER HOSPITAL ZIP CODE 65201</b>			
RODES, NED D.....	RESERPINE AND BREAST CANCER .....	1N01 CP53557-00	1,760



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MISSOURI—Continued</b>			
ORGANIZATION TOTAL	1	1,760	
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT COLUMBIA ZIP CODE 65201</b>			
GEHRKE, CHARLES W .....	DEVELOPMENT/APPLICATION OF GAS CHROMATOGRAPHIC TECHNIQUE.....	2N01 CM12323-08	173,264
HENTGES, DAVID J .....	EFFECT OF HIGH MEAT DIET ON THE BACTERIAL FLORA.....	3N01 CP33335-04	38,487
NOLPH, KARL D .....	ADHERENCE OF BLOOD COMPONENTS TO COIL MEMBRANES.....	3N01 AM22202-05	28,864
NOLPH, KARL D .....	EFFECTS OF INTRAPERITONEAL VASODILATORS.....	1N01 AM52216-00	46,330
SHARP, GORDON C .....	IMMUNOLOGIC AND MORPHOLOGIC CONSEQUENCES OF VASECTOMY.....	3N01 HD22772-03	30,965
ORGANIZATION TOTAL	5	317,910	
<b>INDEPENDENCE</b>			
<b>INDEPENDENCE NEIGHBORHOOD COUNCILS ZIP CODE 64050</b>			
SCHAEFER, ROY H .....	COMMUNITY CARES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52469-00	59,380
ORGANIZATION TOTAL	1	59,380	
<b>KANSAS CITY</b>			
<b>COMMUNITY BLOOD CENTER OF GREATER KANSAS CITY ZIP CODE 64111</b>			
BAYER, WILLIAM L .....	DEVELOPMENT OF SCREENING TEST FOR CYTOMEGALOVIRUS.....	2N01 HB22909-03	41,358
ORGANIZATION TOTAL	1	41,358	
<b>MIDWEST RESEARCH INSTITUTE ZIP CODE 64110</b>			
ENGLE, JAMES F .....	SYNTHESIS OF POLYCYCLIC HYDROCARBON DERIVATIVES.....	3N01 CP33387-03	351,005
FOTOPOULOS, S S .....	PSYCHOLOGICAL ASPECTS OF BREAST CANCER.....	1N01 CN55312-00	243,000
LEE, C C .....	LONG-RANGE TOXICOLOGIC EFFECT OF SPECIFIC FUNGICIDES.....	5N01 ES22084-07	156,300
SMITH, I C .....	APPRAISAL OF ENVIRONMENTAL EXPOSURE TO HEAVY METALS.....	2N01 ES22090-04	55,885
ORGANIZATION TOTAL	4	806,190	
<b>SAINT LOUIS</b>			
<b>JEWISH HOSPITAL OF ST. LOUIS ZIP CODE 63178</b>			
AVIOLI, LOUIS V .....	STUDY OF HORMONAL REGULATION OF BONE METABOLISM.....	2N01 AM02219-07	55,792
LITTLE, J RUSSELL .....	STUDY OF IMMUNOLOGICAL PROPERTIES.....	2N01 CB43872-01	69,465
ORGANIZATION TOTAL	2	125,257	
<b>ST. LOUIS COUNTY SPECIAL SCHOOL DISTRICT ZIP CODE 63131</b>			
HUSKEY, ROBERT L .....	HEARING AID EFFECTS ON AUDITORY SENSITIVITY IN CHILDREN.....	1N01 NS52324-00	79,758
ORGANIZATION TOTAL	1	79,758	
<b>ST. LOUIS UNIVERSITY ZIP CODE 63103</b>			
GREEN, MAURICE .....	STUDY OF ONCOGENESIS.....	3N01 CP43359-02	1,126,023
KAISER, GEORGE C .....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	2N01 HV32980-05	348,078
SMITH, KENNETH R, JR. ....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM57020-00	102,125
ORGANIZATION TOTAL	3	1,576,226	
<b>UNIVERSITY CITY</b>			
<b>WASHINGTON UNIVERSITY ZIP CODE 63130</b>			
BRUCE, ROBERT M .....	STUDY OF PROTEINASE INHIBITOR PHENOTYPES.....	2N01 HR12218-06	27,885
FLETCHER, ANTHONY P .....	STUDY CONTRACEPTIVE AGENTS EFFECT ON BLOOD COAGULATION.....	3N01 HD12302-06	78,155
KARDOS, J L .....	DEVELOPMENT OF MATERIALS FOR VASCULAR PROSTHESES.....	2N01 HB32909-04	64,140
MARSHALL, GARLAND R .....	SYNTHESIS AND NMR STUDIES ON L-GLUTAMATES.....	1N01 CT52106-00	11,488
SCHONFELD, GUSTAV .....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV22916-06	1,587,940

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MISSOURI—Continued</b>			
VIETTI, TERESA J.....	INTERACTION OF ANTICANCER AGENTS AT THE CELLULAR LEVEL.....	5N01 CM43731-02	106,085
ORGANIZATION TOTAL	6 1,875,693		
STATE TOTAL	26 5,221,995		
<b>MONTANA</b>			
<b>BOZEMAN</b>			
MONTANA STATE UNIVERSITY	ZIP CODE 59715		
DIERKS, RICHARD E.....	MODEL SYSTEM FOR RSV DISEASE IN CHILDREN.....	1N01 AI52518-00	49,036
ORGANIZATION TOTAL	1 49,036		
<b>GREAT FALLS</b>			
COLUMBUS HOSPITAL	ZIP CODE 59401		
STIMPELING, JACK H.....	PRODUCTION OF MUTANT CONGENIC MICE.....	2N01 CB43935-01	20,951
ORGANIZATION TOTAL	1 20,951		
<b>HELENA</b>			
MONTANA STATE DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES	ZIP CODE 59601		
TERRILL, A JACK.....	COMMUNITY CARIES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52467-00	44,260
ORGANIZATION TOTAL	1 44,260		
STATE TOTAL	3 114,247		
<b>NEBRASKA</b>			
<b>LINCOLN</b>			
UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA AT LINCOLN	ZIP CODE 68508		
BANERJEE, MIHIR R.....	CARCINOGEN-INDUCED NODULIGENESIS AND TUMORIGENESIS.....	3N01 CP33289-01	17,000
ORGANIZATION TOTAL	1 17,000		
<b>OMAHA</b>			
CREIGHTON UNIVERSITY	ZIP CODE 68178		
LYNCH, HENRY T.....	STUDY OF FAMILIES WITH A HIGH INCIDENCE OF BREAST CANCER.....	2N01 CB33901-02	61,500
LYNCH, HENRY T.....	BIOCHEMICAL AND PHYSIOLOGICAL INVESTIGATIONS.....	2N01 CB44003-02	114,300
TOWNLEY, ROBERT G.....	STUDIES ON RESPIRATORY DISEASES.....	2N01 HR22985-04	111,300
ORGANIZATION TOTAL	3 287,100		
UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER	ZIP CODE 68105		
FRIEDLANDER, WALTER.....	SUPPORT FOR CLINICAL NEUROLOGY INFORMATION CENTER.....	2N01 NS22300-02	141,563
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM.....	4N01 LM54717-00	184,355
SHUBIK, PHILIPPE.....	BIOASSAYS OF ENVIRONMENTAL CARCINOGENESIS.....	3N01 CP33278-01	2,993,753
ORGANIZATION TOTAL	3 3,319,671		
STATE TOTAL	7 3,623,771		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW HAMPSHIRE</b>			
<b>DURHAM</b>			
<b>UNIVERSITY OF NEW HAMPSHIRE SYSTEM—UNIVERSITY OF NEW HAMPSHIRE      ZIP CODE 03824</b>			
LYLE, ROBERT E.....	PREPARATION OF VARIOUS N-NITROSO COMPOUNDS.....	1N01 CP55675-00	43,374
ORGANIZATION TOTAL	1      43,374		
<b>HANOVER</b>			
<b>DARTMOUTH COLLEGE      ZIP CODE 03755</b>			
CURPHEY, THOMAS J.....	PANCREAS UPTAKE AND EXCRETION: RATS AND HAMSTERS.....	1N01 CP55708-00	131,167
LONGNECKER, DANIEL S.....	DELIVERY OF SYNTHETIC NITROSO COMPOUNDS TO THE PANCREAS.....	2N01 CP33378-01	121,115
MAURER, LLOYD H.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45146-01	325,000
MC INTYRE, O ROSS.....	SUPPORT FOR CLINICAL CHEMOTHERAPY PROGRAM.....	3N01 CN35017-04	41,174
ORGANIZATION TOTAL	4      618,456		
<b>MARY HITCHCOCK MEMORIAL HOSPITAL      ZIP CODE 03755</b>			
LANE, FRANK W.....	CONDUCT RADIATION THERAPY TREATMENT.....	2N01 CB12087-06	416,074
MC INTYRE, O ROSS.....	EXPANSION OF THE NORRIS COTTON CANCER CENTER.....	1N01 CN55199-00	4,268,023
ORGANIZATION TOTAL	2      4,684,097		
STATE TOTAL	7      5,345,927		
<b>NEW JERSEY</b>			
<b>BOUND BROOK</b>			
<b>UNION CARBIDE CORPORATION—BOUND BROOK TECHNICAL CENTER      ZIP CODE 08805</b>			
BYCK, JOSEPH S.....	IMPROVED ULTRATHIN WEB STRUCTURES.....	3N01 HV81388-14	108,460
KWIATKOWSKI, G T.....	BLOOD COMPATIBLE POLY-ELECTROLYTES.....	2N01 HB32950-03	57,643
ROBESON, LLOYD M.....	MATERIALS FOR EXTRAORAL MAXILLOFACIAL PROSTHESIS.....	5N01 DE42436-02	40,470
ORGANIZATION TOTAL	3      206,573		
<b>CALDWELL</b>			
<b>OSTERGAARD ASSOCIATES      ZIP CODE 07006</b>			
OSTERGAARD, PAUL B.....	ASSESSING HOSPITAL NOISE LEVELS.....	1N01 CB53925-00	6,977
ORGANIZATION TOTAL	1      6,977		
<b>CAMDEN</b>			
<b>INSTITUTE FOR MEDICAL RESEARCH      ZIP CODE 08103</b>			
CORIELL, LEWIS L.....	OPERATION OF HUMAN GENETIC MUTANT-CELL REPOSITORY.....	5N01 GM32112-07	264,951
LASFARGUES, ETIENNE Y.....	TISSUE CULTURE LINES FROM BREAST CANCER.....	2N01 CB23868-03	33,000
MOORE, DAN H.....	STUDY OF MILK AND MAMMARY TUMORS.....	9N01 CP53561-00	450,000
NICHOLS, WARREN W.....	GENETICALLY MARKED CELLS FOR AGING RESEARCH.....	3N01 HD42865-01	5,850
ORGANIZATION TOTAL	4      753,801		
<b>CHERRY HILL</b>			
<b>COMPUTER HORIZONS      ZIP CODE 08034</b>			
NARIN, FRANCIS.....	LINKAGE BETWEEN RESEARCH PUBLICATIONS AND NIH FUNDING.....	2N01 OD32109-05	74,958
ORGANIZATION TOTAL	1      74,958		



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW JERSEY—Continued</b>			
<b>FAIRFIELD</b>			
<b>TECHNICON CORPORATION—TECHNICON MEDICAL INFORMATION SYSTEMS CORPORATION</b>		<b>ZIP CODE 07006</b>	
TO BE APPOINTED .....	COMPUTER BASED HOSPITAL INFORMATION SYSTEM .....	1N01 CL52154-00	1,580,000
ORGANIZATION TOTAL	1 1,580,000		
<b>FREEHOLD</b>			
<b>RAYCOMM INDUSTRIES</b>		<b>ZIP CODE 07728</b>	
NOT APPLICABLE .....	MAINTENANCE SERVICES FOR ELECTRONIC EQUIPMENT .....	2N01 LM44715-01	34,600
ORGANIZATION TOTAL	1 34,600		
<b>WORTHINGTON BIOCHEMICAL CORPORATION</b>		<b>ZIP CODE 07728</b>	
FLORA, ROBERT M. ....	EXTRACT ANTIGENS FROM POLLEN OF LOLIUM PERENNE .....	1N01 AI52516-00	54,466
ORGANIZATION TOTAL	1 54,466		
<b>HIGHLAND PARK</b>			
<b>UNIVERSITY LABORATORIES</b>		<b>ZIP CODE 08904</b>	
BERNSTEIN, EUGENE H. ....	PRODUCTION OF ONCOGENIC VIRUSES AND ANTISERA .....	2N01 CP33222-05	411,521
ORGANIZATION TOTAL	1 411,521		
<b>LINDEN</b>			
<b>EXXON CORPORATION—ESSO RESEARCH AND ENGINEERING COMPANY</b>		<b>ZIP CODE 07036</b>	
ASHER, WILLIAM J. ....	LIQUID MEMBRANE CAPSULE SYSTEM FOR CHRONIC UREMIA .....	3N01 AM32224-03	117,873
ORGANIZATION TOTAL	1 117,873		
<b>MAYWOOD</b>			
<b>PFIZER, INC.</b>		<b>ZIP CODE 07607</b>	
AHMED, MUMTAZ .....	VIROLOGICAL STUDIES OF BREAST-CANCER .....	2N01 CP33239-03	150,000
LARSON, DAVID .....	PREPARATION AND PURIFICATION OF VIRAL COMPONENTS .....	1N01 CM53805-00	198,991
MAYYASI, SAMI .....	PRODUCTION OF HUMAN LYMPHOID CELLS IN CULTURE .....	2N01 CB12078-06	243,226
MAYYASI, SAMI .....	DEVELOPMENT OF VIRUS-CANCER TEST SYSTEM .....	2N01 CP33234-08	1,788,610
WOLFF, JOHN S., III .....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS .....	1N01 CP55703-00	144,994
ORGANIZATION TOTAL	5 2,525,821		
<b>NEWARK</b>			
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY</b>		<b>ZIP CODE 07103</b>	
BRIDDY, B. A. ....	MAINTENANCE OF VIRUS DIAGNOSTIC LABORATORY .....	5N01 CM43760-01	168,914
HUTTER, ROBERT V. ....	PROGRAM FOR EARLY DETECTION OF BREAST CANCER .....	2N01 CN35006-03	183,333
LASSER, NORMAN L. ....	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE .....	2N01 HV33104-03	494,340
ORGANIZATION TOTAL	3 846,587		
<b>NEW BRUNSWICK</b>			
<b>RUTGERS UNIVERSITY</b>		<b>ZIP CODE 08903</b>	
SIMPSON, ROBERT W. ....	MUTANTS OF RESPIRATORY VIRUSES AS VACCINE STRAINS .....	2N01 AI22504-03	99,252
ORGANIZATION TOTAL	1 99,252		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW JERSEY—Continued</b>			
<b>PISCATAWAY</b>			
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL		ZIP CODE 08854	
GOTTLIEB, MARISE S.....	STUDY OF CORONARY HEART DISEASE.....	2N01 HV42929-01	269,504
KUO, PETER T.....	CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52924-00	155,922
ORGANIZATION TOTAL	2	425,426	
<b>PRINCETON</b>			
EXCERPTA MEDICA FOUNDATION		ZIP CODE 08540	
VINKEN, PIERRE J.....	ABSTRACT SERVICES RELATIVE TO HUMAN GENETIC RESEARCH.....	1N01 GM52115-00	11,684
VINKEN, PIERRE J.....	SUPPORT FOR PUBLICATION OF EPILEPSY ABSTRACTS.....	2N01 NS32303-04	37,022
ORGANIZATION TOTAL	2	48,706	
PRINCETON UNIVERSITY		ZIP CODE 08540	
COALE, ANSLEY J.....	ANALYSIS OF THE DECLINE OF FERTILITY IN EUROPE.....	2N01 HD02077-10	30,062
COALE, ANSLEY J.....	SUPPORT OF PUBLICATION OF POPULATION INDEX.....	2N01 HD12138-06	99,333
WESTOFF, CHARLES F.....	NATIONAL FERTILITY SURVEY.....	3N01 HD51048-15	20,233
WESTOFF, CHARLES F.....	LONGITUDINAL STUDY OF FERTILITY.....	1N01 HD52819-00	589,950
ORGANIZATION TOTAL	4	739,578	
<b>RAHWAY</b>			
MERCK AND COMPANY		ZIP CODE 07065	
HILLEMAN, MAURICE M.....	ONCOGENIC VIRUS RESEARCH AND VACCINE DEVELOPMENT.....	3N01 CP12059-12	800,000
ORGANIZATION TOTAL	1	800,000	
MERCK AND COMPANY—MERCK INSTITUTE FOR THERAPEUTIC RESEARCH		ZIP CODE 07065	
BABSON, ROBERT.....	PREPARATION OF COMMERCIALY UNOBTAINABLE COMPOUNDS.....	3N01 CM22002-06	496,451
ORGANIZATION TOTAL	1	496,451	
<b>SUMMIT</b>			
CELANESE CORPORATION—SUMMIT LABORATORY		ZIP CODE 07901	
MODEL, FRANK S.....	OPTIMIZED HEMODIALYSIS MEMBRANES.....	2N01 AM32200-04	90,000
ORGANIZATION TOTAL	1	90,000	
<b>TRENTON</b>			
NEW JERSEY STATE DEPARTMENT OF HEALTH		ZIP CODE 08625	
FRASER, LEON.....	PLANNING FOR A CERVICAL CANCER SCREENING CENTER.....	1N01 CN55169-00	49,177
ORGANIZATION TOTAL	1	49,177	
<b>WESTMONT</b>			
KESSLER COMMUNICATIONS		ZIP CODE 08108	
NOT APPLICABLE.....	INDEXING OF JOURNAL ARTICLES IN BIOMEDICAL LITERATURE.....	1N01 LM54721-00	86,400
ORGANIZATION TOTAL	1	86,400	
STATE TOTAL	36	9,448,167	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW MEXICO</b>			
<b>ALBUQUERQUE</b>			
<b>UNIVERSITY OF NEW MEXICO</b>	<b>ZIP CODE 87131</b>		
BUECHLEY, ROBERT W.....	RELATIONSHIP BETWEEN MORTALITY AND AMBIENT AIR IN N Y C.....	1N01 ES52101-00	42,229
JENNE, JOHN W.....	STUDY OF IMMUNE MECHANISMS IN CHRONIC BRONCHITIS.....	2N01 HR22943-04	26,385
KEY, CHARLES R.....	SUPPORT FOR TUMOR REGISTRY.....	3N01 CP33344-04	342,629
TUNG, KENNETH S.....	IMMUNOPATHOLOGIC CONSEQUENCES OF VASECTOMY.....	3N01 HD32717-03	139,315
WALKER, A EARL.....	QUANTITATIVE INTRACRANIAL PRESSURE MEASUREMENT IN MAN.....	1N01 NS52332-00	121,487
ORGANIZATION TOTAL	5 672,045		
STATE TOTAL	5 672,045		
<b>NEW YORK</b>			
<b>ALBANY</b>			
<b>NEW YORK STATE DEPARTMENT OF HEALTH</b>	<b>ZIP CODE 12237</b>		
DAO, THOMAS.....	CHEMOTHERAPY STUDIES IN PATIENTS WITH BREAST CANCER.....	1N01 CM53834-00	214,434
GREENWALD, PETER.....	CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45091-02	490,000
HOLYOKE, EDWARD D.....	THERAPY OF PATIENTS WITH GASTRIC CARCINOMA.....	2N01 CM43782-02	150,372
HOLYOKE, EDWARD D.....	THERAPY OF PATIENTS WITH PANCREATIC CARCINOMA.....	2N01 CM43794-02	207,376
JANERICH, DWIGHT T.....	EVALUATING EFFECT OF ANTIFERTILITY AGENTS.....	1N01 HD52802-00	54,491
ROHOLT, OLIVER A.....	ANTIGEN-BINDING ACTIV. OF TRANSPLANTABLE T-CELL TUMORS.....	2N01 CB43924-01	36,904
ROSE, JOSEPH E.....	SUPPLY BLOOD & TISSUE SPECIMENS FROM CANCER PATIENTS.....	2N01 CP43392-01	38,575
ORGANIZATION TOTAL	7 1,192,152		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE</b>	<b>ZIP CODE 12229</b>		
VESTERGAARD, PER B.....	STERIOD PATTERNS AND CORONARY RISK.....	2N01 HI42953-01	86,550
ORGANIZATION TOTAL	1 86,550		
<b>STATE UNIVERSITY OF NEW YORK</b>	<b>ZIP CODE 12210</b>		
NOT APPLICABLE.....	MEDLINE BACKUP SYSTEM.....	2N01 LM34704-05	302,688
ORGANIZATION TOTAL	1 302,688		
<b>UNION COLLEGE AND UNIVERSITY SYSTEM—ALBANY MEDICAL COLLEGE</b>	<b>ZIP CODE 12208</b>		
HORTON, J.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	1N01 CM57032-00	112,338
LEMPERT, NEIL.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	1N01 AI52510-00	17,152
MC KNEALLY, MARTIN F.....	INTRAPLEURAL BCG AFTER PRIMARY SURGERY FOR LUNG CANCER.....	1N01 CB53940-00	37,650
SPONZO, ROBERT W.....	DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45140-01	325,000
VAN HEUVEN, WICHARD A.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32124-03	77,895
VAN HEUVEN, WICHARD A.....	EVALUATION OF EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY52146-00	66,279
ORGANIZATION TOTAL	6 636,314		
<b>BUFFALO</b>			
<b>ASSOCIATED BIOMEDIC SYSTEMS</b>	<b>ZIP CODE 14202</b>		
GLICK, J LESLIE.....	STUDY OF LYMPHOBLASTOID CELLS.....	3N01 CM02271-08	211,153
ORGANIZATION TOTAL	1 211,153		
<b>CHILDREN'S HOSPITAL</b>	<b>ZIP CODE 14222</b>		
BEIRNE, HARRY M.....	PREGNANCY FACTORS AND RESULTANT CHILD OUTCOME.....	5N01 NS80006-11	40,580
OGRA, PEARAY L.....	HEPATITIS STUDY CENTER.....	2N01 AI32522-02	113,516
ORGANIZATION TOTAL	2 154,096		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>NEW YORK STATE DEPARTMENT OF HEALTH—ROSWELL PARK MEMORIAL INSTITUTE      ZIP CODE 14263</b>			
AUNGST, WILLIAM C.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES.....	1N01 CN55299-00	300,138
CARTER, WILLIAM A.....	EVALUATION OF THE ANTITUMOR PROPERTIES OF STREPTOVARICIN.....	2N01 CM33726-02	107,538
CHU, TSANN M.....	STUDY OF CARCINOEMBRYONIC ANTIGENS.....	2N01 CB33858-01	58,474
DAO, THOMAS L.....	STUDY OF PATHOGENESIS OF MAMMARY CANCER.....	2N01 CB23865-03	73,000
DAO, THOMAS L.....	STUDY OF STEROID SULFATION AND ESTROGEN-BINDING.....	2N01 CB43900-01	100,000
GRINDEY, GERALD B.....	ANTITUMOR DRUGS—PROFILE OF DRUG INTERACTIONS.....	5N01 CM43785-01	52,191
HAUSCHKA, THEODORE S.....	ISO-ANTIGENIC TYPING OF MOUSE STRAINS AND TUMORS.....	2N01 CM02035-06	125,593
KIM, UNTAE.....	STUDY OF PREVENTION OF METASTASIS IN MAMMARY CANCER.....	2N01 CB23864-03	105,000
MERRIN, CLAUDE.....	STUDY OF THERAPY FOR PATIENTS WITH TESTICULAR CARCINOMA.....	2N01 CM43714-02	33,014
MIHICH, E.....	IMMUNOCHEMOTHERAPY RESEARCH.....	1N01 CM57039-00	86,380
MIRAND, EDWIN A.....	TELEPHONE SYSTEM FOR CANCER PUBLIC INFORMATION.....	3N01 CN45073-01	110,187
MITTELMAN, A.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	1N01 CM57034-00	119,405
MURPHY, GERALD P.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55174-00	83,323
PAIGEN, KENNETH.....	METHODS OF ASSAYING ARYL HYDROCARBON HYDROXYLASE IN BLOOD.....	4N01 CP55629-00	62,418
SCHAAF, NORMAN G.....	TRAINING PROGRAMS FOR MAXILLOFACIAL PROSTHODONTISTS.....	3N01 CN45101-02	145,151
SHEDO, DONALD P.....	DEMONSTRATION PROJECT IN HEAD AND NECK CANCER.....	9N01 CN55257-00	438,926
VINCENT, RONALD G.....	THERAPY OF PATIENTS WITH BRONCHOGENIC CARCINOMA.....	5N01 CM33734-03	180,592
WEISS, LEONARD.....	EVALUATE MACROPHAGE ELECTROPHORETIC MOBILITY ASSAY.....	1N01 CB53901-00	34,212
WILSON, DOROTHY T.....	ONCOLOGY NURSING PROGRAMS IN MEDICAL CENTERS.....	1N01 CN55063-00	90,388
ORGANIZATION TOTAL      19	2,305,930		
<b>RESEARCH FOR HEALTH IN ERIE COUNTY      ZIP CODE 14215</b>			
BISSELL, G DONALD.....	COMMUNITY CARES PREVENTION DEMONSTRATION PROJECTS.....	1N01 DE52473-00	74,569
ORGANIZATION TOTAL      1	74,569		
<b>STARKS ASSOCIATES      ZIP CODE 14213</b>			
FOSTER, ARTHUR M.....	CHEMICALS AND DRUGS - EVALUATION IN CANCER CHEMOTHERAPY.....	1N01 CM53745-00	348,579
SCHULTZ, ROBERT J.....	RESYNTHESIS OF BULK CHEMICALS AND DRUGS.....	1N01 CM53769-00	156,499
STARKS, FRED W.....	SYNTHESIS OF CANCER CHEMOTHERAPY COMPOUNDS.....	5N01 CM23203-06	379,500
ORGANIZATION TOTAL      3	884,578		
<b>STATE UNIVERSITY OF NEW YORK AT BUFFALO      ZIP CODE 14214</b>			
BAHL, OM P.....	IDENTIFICATION AND PURIFICATION OF ENDOGLYCOSIDASES.....	2N01 CB43989-01	53,704
BARNARD, ERIC A.....	BIOCHEMICAL MARKERS THAT PRESAGE CANCER.....	5N01 CB43977-02	79,199
BIGAZZI, PIERLUIGI E.....	IMMUNOLOGICAL STUDIES ON STEROID-PRODUCING CELLS.....	3N01 HD22775-03	39,344
GENCO, ROBERT J.....	CHEMICAL AGENTS TO PREVENT HUMAN PERIODONTAL PLAQUE.....	5N01 DE42440-02	57,980
GUSTAVO, CUDKOWICS.....	IMMUNOCHEMOTHERAPY RESEARCH.....	1N01 CM53766-00	134,301
HERMAN, GABOR T.....	COMPUTERIZED TRANSAXIAL X-RAY RECONSTRUCTION.....	1N01 CB53860-00	54,402
KANO, KYSICHI.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	1N01 AI52514-00	10,550
KLEIN, EDMUND.....	MECHANISMS OF THE IMMUNE RESPONSE TO CUTANEOUS NEOPLASMS.....	2N01 CP33373-03	74,147
NISENGARD, RUSSEL J.....	CROSS-REACTIVITY OF ANTIGENS.....	1N01 DE52481-00	63,000
ZELEN, MARVIN.....	SUPPORT FOR COOPERATIVE STUDY OF BRONCHOGENIC CARCINOMA.....	5N01 CM33715-04	241,700
ORGANIZATION TOTAL      10	808,327		
<b>CHEEKTOWAGA</b>			
<b>CALSPAN CORPORATION      ZIP CODE 14225</b>			
BAIER, ROBERT E.....	MATERIALS COMPATIBLE WITH BLOOD.....	2N01 HB32953-04	68,438
ORGANIZATION TOTAL      1	68,438		
<b>FARMINGDALE</b>			
<b>LNR COMMUNICATIONS      ZIP CODE 11735</b>			
NOT APPLICABLE.....	PROVIDE PARAMETRIC AMPLIFIER.....	1N01 LM54700-00	12,700
ORGANIZATION TOTAL      1	12,700		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>GREENPORT</b>			
<b>SHELTER ISLAND OYSTER COMPANY ZIP CODE 11944</b>			
CHANLEY, PAUL.....	REARING AND MAINTENANCE OF SQUID.....	1N01 RR52150-00	56,855
ORGANIZATION TOTAL	1 56,855		
<b>ITHACA</b>			
<b>CORNELL UNIVERSITY ZIP CODE 14850</b>			
HANSEL, WILLIAM.....	ISOLATION OF THE BOVINE UTERINE LUTEOLYTIC FACTOR.....	3N01 HD92209-08	45,808
MC GINNIS, ROBERT.....	FEDERAL POLICY IMPACT ON BIOSCIENCES-STATISTICAL MODELS.....	5N01 OD42175-02	175,443
PEAKALL, DAVID B.....	EFFECT OF TOXAPHENE ON HEPATIC ENZYME INDUCTION.....	1N01 ES52100-00	16,992
SCOTT, FREDRIC W.....	ANIMAL MODEL FOR ANTIVIRAL EVALUTAION.....	1N01 AI52527-00	89,030
ORGANIZATION TOTAL	4 327,273		
<b>MELVILLE</b>			
<b>LONG ISLAND CANCER COUNCIL ZIP CODE 11746</b>			
SMITH, RAYMOND F.....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM.....	1N01 CN55274-00	119,167
ORGANIZATION TOTAL	1 119,167		
<b>NEW HYDE PARK</b>			
<b>NUCLEAR LEASING CORPORATION ZIP CODE 11040</b>			
ENRlich, MELVIN P.....	FURNISHING A CYTOSCREENER AND TECHNICIAN FOR TESTING.....	1N01 CB53915-00	113,618
ORGANIZATION TOTAL	1 113,618		
<b>NEW YORK</b>			
<b>AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE ZIP CODE 10017</b>			
MEURK, MARY L.....	CANCER CONTROL RADIOL. PHYSICS CENTER COORD. COMMITTEE.....	3N01 CN45162-01	208,048
ORGANIZATION TOTAL	1 208,048		
<b>AMERICAN CANCER SOCIETY ZIP CODE 10017</b>			
ARIE, SIDNEY L.....	NATIONAL CONFERENCE ON ADVANCE IN CANCER MANAGEMENT.....	1N01 CM53807-00	50,000
MILT, HARRY.....	SUPPORT FOR THIRD WORLD CONFERENCE ON SMOKING.....	3N01 CN35010-01	59,600
VIVONA, STEFANO.....	PARTIAL SUPPORT FOR WORKSHOP ON BLADDER CARCINOMA.....	1N01 CB53908-00	18,000
ORGANIZATION TOTAL	3 127,600		
<b>AMERICAN HEALTH FOUNDATION ZIP CODE 10019</b>			
HECHT, S.....	METABOLISM OF CARCINOGENIC COMPOUNDS.....	1N01 CP55639-00	64,328
WILLIAMS, G.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	1N01 CP55705-00	118,400
WYNDER, ERNEST L.....	STUDY OF CANCER EPIDEMIOLOGY.....	5N01 CP33208-06	742,059
WYNDER, ERNEST L.....	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE.....	2N01 HV22983-04	1,160,233
ORGANIZATION TOTAL	4 2,085,020		
<b>AMERICAN THORACIC SOCIETY ZIP CODE 10019</b>			
FERRIS, BENJAMIN G.....	NATIONAL STANDARDIZED EPIDEMIOLOGIC PROCEDURES.....	1N01 HR53028-00	345,000
ORGANIZATION TOTAL	1 345,000		
<b>BETH ISRAEL MEDICAL CENTER ZIP CODE 10003</b>			
WAITMAN, A.....	CONTROL OF GI TRACT BLEEDING BY LASER PHOTOCOAGULATION.....	1N01 AM52222-00	99,120
ORGANIZATION TOTAL	1 99,120		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>BRISTOL-MYERS COMPANY      ZIP CODE 10020</b>			
CLARIDGE, C A.....	PRODUCE NOVEL ANTINEOPLASTIC COMPOUNDS.....	5N01 CM43759-03	191,878
ORGANIZATION TOTAL	1      191,878		
<b>CAROLYN HORTON AND ASSOCIATES      ZIP CODE 10011</b>			
NOT APPLICABLE.....	REPAIR, RESTORATION AND CUSTOM REBINDING OF RARE BOOKS.....	1N01 LM54711-00	8,000
ORGANIZATION TOTAL	1      8,000		
<b>CATHOLIC MEDICAL CENTER OF BROOKLYN AND QUEENS      ZIP CODE 11432</b>			
MARTIN, DANIEL S.....	DEVELOPMENT OF MODEL SYSTEM FOR THERAPY EVALUATION.....	2N01 CM23703-08	967,801
ORGANIZATION TOTAL	1      967,801		
<b>CHILDREN'S TELEVISION WORKSHOP      ZIP CODE 10023</b>			
BROOKS, PAULENE.....	EVALUATION OF A TELEVISION SHOW ON CANCER.....	1N01 CO55260-00	197,400
ORGANIZATION TOTAL	1      197,400		
<b>CITY UNIVERSITY OF NEW YORK—GRADUATE SCHOOL AND UNIVERSITY CENTER      ZIP CODE 10036</b>			
WHITE, RICHARD E.....	PRESCRIPTIVE FITTING OF WEARABLE MASTER HEARING AIDS.....	3N01 NS42323-03	10,525
ORGANIZATION TOTAL	1      10,525		
<b>CITY UNIVERSITY OF NEW YORK—MOUNT SINAI SCHOOL OF MEDICINE      ZIP CODE 10029</b>			
ALEDORT, LOUIS M.....	FACTOR VIII INHIBITORS IN HEMOPHILIA.....	1N01 HB53020-00	167,597
BROWN, EDWIN C.....	DEVELOPING SENSORS FOR CONTINUOUS MONITORING.....	1N01 HR52949-00	93,413
BRUCKNER, HOWARD W.....	THERAPY OF PATIENTS WITH GASTRIC CARCINOMA.....	1N01 CM53841-00	150,782
DOUGLAS, STEVEN D.....	STUDY OF EFFECTOR MOLECULES AND CELLULAR BIOCHEMISTRY.....	2N01 CB33912-02	60,500
GREENSPAN, EZRA M.....	STUDY OF CARCINOMA OF THE OVARIES.....	3N01 CM43703-01	55,625
HOLLAND, JAMES F.....	PHASE I STUDIES OF NEW ANTICANCER AGENTS.....	1N01 CM53837-00	116,000
HOLLAND, JAMES F.....	STUDY OF ETIOLOGY AND CONTROL OF LEUKEMIA.....	2N01 CP43225-02	344,864
NOT APPLICABLE.....	FEASIBILITY STUDY OF CATV LINK TO PUBLIC HOUSING PROJECT.....	2N01 LM24711-07	187,251
OSTER, GERALD.....	SALIVA TESTS FOR OVULATION.....	1N01 HD52850-00	61,637
PARONETTO, FIORENZO.....	IMMUNOFLOUORESCENT DETECTION OF ANTIBODIES IN TUMOR CELLS.....	2N01 CB43953-01	84,283
ROSENFELD, RICHARD E.....	DEVELOPMENT OF METHOD TO DETECT BLOOD IN FECES.....	5N01 CB43870-01	86,842
SILTZBACH, LOUIS E.....	IN VITRO TEST FOR SARCOIDOSIS.....	5N01 HR42957-01	215,872
YAHN, MELVIN D.....	VIROLOGY STUDIES IN PARKINSON'S DISEASE.....	1N01 NS52309-00	87,604
ORGANIZATION TOTAL	13      1,712,270		
<b>COLUMBIA UNIVERSITY      ZIP CODE 10027</b>			
CANFIELD, ROBERT E.....	STUDY OF HUMAN CHORIONIC GONADOTROPIN.....	3N01 HD02251-08	42,000
GREGOR, HARRY P.....	DEVELOPMENT OF POLYELECTROLYTE SYSTEM FOR CAUTERIZATION.....	2N01 HD32797-04	32,761
HILAL, SADEK K.....	CLINICAL EVAL OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY.....	5N01 CB43910-01	106,322
JAMES, I. STANLEY.....	CLINICAL EVALUATION OF BLOOD GAS SENSORS.....	1N01 HR52948-00	282,659
LEONARD, EDWARD F.....	STUDY OF PLATELET REACTIONS ON ARTIFICIAL MATERIALS.....	2N01 HB32910-04	94,925
MELLINS, ROBERT B.....	FOLLOW-UP OF SELECTED PARAMETERS IN INFANTS.....	1N01 HD52856-00	120,000
NOT APPLICABLE.....	PREPARATION OF A MANUSCRIPT FOR A BOOK.....	1N01 LM54741-00	147,710
PRESSER, HARRIET B.....	FERTILITY PATTERNS OF URBAN MOTHERS.....	2N01 HD22038-06	66,903
RIFKIND, RICHARD A.....	ORGANIZATION AND DYNAMICS OF CELL SURFACE MEMBRANE.....	2N01 CB44008-01	51,094
ROSENKRANZ, HERBERT S.....	STUDY OF MUTAGENIC ACTIVITY OF 85 COMPOUNDS.....	2N01 CP33395-02	77,330
RUSH, DAVID.....	PREVENTION OF PREMATURITY AND DEVELOPMENTAL DISORDERS.....	2N01 HD92180-16	521,990
SPIEGELMAN, SOL.....	ONCOGENIC RNA VIRUSES AND ITS RELATION TO HUMAN CANCER.....	3N01 CP32358-03	1,141,080
WEINSTEIN, I BERNARD.....	DEVELOPMENT OF TISSUE-CULTURE TRANSFORMATION SYSTEM.....	2N01 CP23234-03	191,830
ORGANIZATION TOTAL	13      2,876,604		
<b>COMMUNITY BLOOD COUNCIL OF GREATER NEW YORK      ZIP CODE 10021</b>			
PRINCE, ALFRED M.....	CLINICAL TRIALS OF HYPERIMMUNE GAMMA GLOBULIN.....	2N01 HB22960-08	138,514
ORGANIZATION TOTAL	1      138,514		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>CORNELL UNIVERSITY MEDICAL CENTER      ZIP CODE 10021</b>			
ALONSO, DANIEL R.....	QUANTIFICATION OF INFARCT SIZE.....	1N01 HV52985-00	200,330
JAVITT, NORMAN B.....	STUDY OF CONTRACEPTIVE STEROIDS IN THE BABOON.....	3N01 HD22734-06	104,837
POTTS, DOUGLAS G.....	CLINICAL EVAL. OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY.....	2N01 CB43980-01	111,000
SCHIEDT, STEPHEN.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52931-00	157,921
SENERFIT, LAURENCE B.....	ANTIGENICITY AND IMMUNOGENICITY OF PNEUMONIAE VACCINE.....	2N01 A102065-10	26,423
SILVER, RICHARD T.....	SUPPORT FOR CLINICAL CANCER CHEMOTHERAPY PROGRAM.....	3N01 CN35025-04	101,697
ORGANIZATION TOTAL      6	702,208		
<b>GUTTMAN INSTITUTE      ZIP CODE 10016</b>			
STRAX, PHILIP.....	RESERPINE AND BREAST CANCER.....	1N01 CP53540-00	1,325
ORGANIZATION TOTAL      1	1,325		
<b>HEALTH INSURANCE PLAN OF GREATER NEW YORK      ZIP CODE 10022</b>			
FINK, RAYMOND.....	EVALUATION OF THERMOGRAPHY IN BREAST-CANCER SCREENING.....	2N01 CN35021-03	701,352
FINK, RAYMOND.....	STUDY OF VALUE OF MAMMOGRAPHY.....	2N01 CP43278-02	122,172
ORGANIZATION TOTAL      2	823,524		
<b>JAMAICA HOSPITAL      ZIP CODE 11418</b>			
BARBER, HUGH.....	REHABILITATION SERVICES FOR CANCER PATIENTS.....	5N01 CN45034-03	204,449
ORGANIZATION TOTAL      1	204,449		
<b>JAMES MACDONALD COMPANY      ZIP CODE 10023</b>			
NOT APPLICABLE.....	REPAIR, RESTORATION AND CUSTOM REBINDING OF RARE BOOKS.....	1N01 LM54710-00	8,000
ORGANIZATION TOTAL      1	8,000		
<b>JEWISH HOSPITAL AND MEDICAL CENTER OF BROOKLYN      ZIP CODE 11238</b>			
DOSIK, HARVEY.....	CYTOGENETIC STUDY OF VIRAL TRANSFORMATION.....	2N01 CP43251-01	100,000
ORGANIZATION TOTAL      1	100,000		
<b>LONG ISLAND JEWISH-HILLSIDE MEDICAL CENTER      ZIP CODE 11040</b>			
LIPSITZ, PHILIP.....	STUDY OF PHOTOTHERAPY FOR NEONATAL HYPERBILIRUBINEMIA.....	3N01 HD42821-02	41,529
SAMUEL, PAUL.....	ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52915-00	149,039
ORGANIZATION TOTAL      2	190,568		
<b>MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES      ZIP CODE 10021</b>			
BROWN, MARY.....	ONCOLOGY NURSING PROGRAMS IN CANCER CENTERS.....	5N01 CN45123-01	171,282
D'ANGIO, GIULIO J.....	STUDY OF LATE EFFECTS OF CANCER THERAPY.....	2N01 CP23286-05	99,985
FITZGERALD, PATRICK J.....	DEVELOP METHODS FOR DETECTING PANCREATIC CANCER.....	5N01 CB43975-01	165,810
HIRSHAUT, YASHAR.....	SUPPLY OF HUMAN TUMOR SPECIMENS.....	2N01 CP43335-02	165,000
KRAKOFF, IRWIN H.....	PHASE I STUDIES OF NEW ANTICANCER AGENTS.....	2N01 CM43804-03	161,700
KRAKOFF, IRWIN H.....	STUDIES OF PATIENTS WITH SOLID DISSEMINATED TUMORS.....	1N01 CM57043-00	356,999
LAUGHLIN, JOHN S.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	2N01 CN45057-02	142,254
LEPLEY, JAMES B.....	TRAINING OF MAXILLOFACIAL PROSTHODONTISTS.....	5N01 CN45048-01	59,640
LIPKIN, MARTIN.....	ANALYSIS OF CELL PROLIFERATION IN FAMILIAL POLYPOSIS.....	2N01 CP43366-02	170,828
MELAMED, MYRON R.....	STUDY OF EARLY DETECTION OF CANCER OF THE LUNGS.....	5N01 CN45007-02	592,000
ROBBINS, GUY F.....	DEMONSTRATE CANCER REHABILITATION FACILITIES.....	1N01 CN55223-00	472,222
ROBBINS, GUY F.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55224-00	77,280
SHAPIRO, WILLIAM R.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM57019-00	106,701
STEARNS, M W JR.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	1N01 CM53844-00	94,413
ORGANIZATION TOTAL      14	2,836,114		
<b>MONTEFIORE HOSPITAL AND MEDICAL CENTER      ZIP CODE 10467</b>			
FISHMAN, JACK.....	FAMILIAL GENETIC PATTERNS—BIOCHEMICAL & PHYSIOLOGICAL.....	2N01 CB44002-01	191,900
HOLLAND, JIMMIE.....	PSYCHOLOGICAL ASPECTS OF BREAST CANCER.....	1N01 CN55214-00	171,195



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
KOSS, LEOPOLD G.....	EVALUATION OF HAPTEN TREATMENT.....	5N01 CB43963-02	180,000
WEITZMAN, ELLIOT D.....	FOLLOW-UP OF SELECTED PARAMETERS IN INFANTS.....	1N01 HD52855-00	126,755
ORGANIZATION TOTAL	4 669,850		
<b>NATIONAL URBAN LEAGUE ZIP CODE 10021</b>			
SOUMAH, A RUTH.....	SICKLE CELL EDUCATION PROGRAM.....	1N01 HB53034-00	50,000
ORGANIZATION TOTAL	1 50,000		
<b>NEW YORK ACADEMY OF MEDICINE ZIP CODE 10029</b>			
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY SERVICES.....	2N01 LM14721-07	294,049
ORGANIZATION TOTAL	1 294,049		
<b>NEW YORK CITY HEALTH SERVICES ADMINISTRATION—PUBLIC HEALTH RESEARCH INSTITUTE OF CITY OF N Y ZIP CODE 10016</b>			
OSLER, ABRAHAM G.....	CHEMICAL CARCINOGENESIS AND IMMUNOLOGY.....	1N01 CP55679-00	72,940
PONS, MARCEL W.....	DETECTION OF RESPIRATORY VIRUS GENOME IN HUMAN TISSUES.....	2N01 A142543-01	44,982
WARD, GERALD M.....	STUDY OF SLOW VIRUS INFECTIONS OF CNS OF MAN.....	2N01 NS70082-16	129,849
ORGANIZATION TOTAL	3 247,771		
<b>NEW YORK MEDICAL COLLEGE ZIP CODE 10029</b>			
BLACK, MAURICE M.....	STUDY OF CHANGING INCIDENCE RATES OF BREAST CANCER.....	5N01 CP33321-02	12,538
BLACK, MAURICE M.....	STUDY OF IMMUNOLOGICAL MEASUREMENTS.....	3N01 CP33398-02	170,090
FREUND, MATTHEW J.....	STUDY OF DYNAMICS OF SPERM TRANSPORT.....	3N01 HD42847-01	4,802
GALIN, MILES A.....	STUDY OF USE OF INTERFERON IN EYE INFECTIONS.....	3N01 A181266-13	42,556
GIROLAMO, RITA F.....	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER.....	1N01 CN55249-00	75,973
ORGANIZATION TOTAL	5 305,959		
<b>NEW YORK UNIVERSITY ZIP CODE 10003</b>			
ADISMAN, I KENNETH.....	TRAINING PROGRAMS FOR MAXILLOFACIAL PROSTHODONTISTS.....	5N01 CN45113-01	118,350
BASCH, ROSS S.....	STUDY OF MECHANISMS OF LYMPHOID CELL DIFFERENTIATION.....	2N01 CB43927-01	49,893
BASILICO, CLAUDIO.....	STUDY OF MUTANT VERTEBRATE CELLS.....	3N01 CP33279-02	234,040
DILLER, LEONARD.....	EARLY INTERVENTION IN REHABILITATION OF CANCER PATIENTS.....	1N01 CN55188-00	195,958
FRIEDMAN-KIEN, ALVIN E.....	STUDY OF INTERFERON AND VIRUS-INDUCED SKIN LESIONS.....	2N01 A102131-07	91,473
GLASSMAN, EPHRAIM.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	2N01 HV32976-06	218,987
GOLDSTEIN, GIDEON.....	CHEMICAL CHARACTERIZATION OF PURIFIED THYMIC PRODUCTS.....	1N01 CB53868-00	98,422
KUSCHNER, MARVIN.....	STUDY OF PULMONARY CARCINOGENESIS.....	2N01 CP33260-05	459,555
MOOR-JANKOWSKI, J.....	NONHUMAN PRIMATE COLONIES FOR NIH RESEARCH.....	2N01 RR42184-01	138,963
NEIMANN, WENDALL.....	ACQUISITION, BREEDING, AND MAINTENANCE OF CHIMPANZEES.....	5N01 HB42971-04	358,333
NELSON, ARTHUR J.....	TRAINING OF PHYSICAL AND OCCUPATIONAL THERAPISTS.....	5N01 CN45050-02	70,864
POST, JOSEPH.....	CELL KINETICS OF BREAST CANCER.....	2N01 CB33903-02	110,000
RANSOHOFF, JOSEPH.....	STUDY OF BRAIN TUMOR CHEMOTHERAPY.....	3N01 CM71174-14	42,983
VAN DUUREN, BENJAMIN L.....	CARCINOGENESIS PRINCIPLES OF PROCESSED TOBACCO.....	2N01 CP33241-03	137,734
VILCEK, JAN T.....	METHODS OF PRODUCING HUMAN INTERFERON.....	3N01 A102169-09	89,322
ORGANIZATION TOTAL	15 2,414,877		
<b>PLENUM PUBLISHING CORPORATION ZIP CODE 10011</b>			
NOT APPLICABLE.....	REVIEW OF LITERATURE ON TERATOGENESIS.....	3N01 LM44720-02	505
ORGANIZATION TOTAL	1 505		
<b>PRESBYTERIAN HOSPITAL IN NEW YORK ZIP CODE 10032</b>			
HILAL, SADEK K.....	COMPUTERIZED TRANSAXIAL X-RAY RECONSTRUCTION SYSTEM.....	1N01 CB53974-00	199,290
ORGANIZATION TOTAL	1 199,290		
<b>RESEARCH INSTITUTE FOR THE STUDY OF MAN ZIP CODE 10021</b>			
JAFFE, ABRAHAM J.....	STUDY OF FERTILITY OF THE SPANISH-AMERICAN POPULATION.....	2N01 HD22795-02	76,810
ORGANIZATION TOTAL	1 76,810		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>ROCKEFELLER UNIVERSITY      ZIP CODE 10021</b>			
CERAMI, ANTHONY.....	TEST AND EVALUATE IRON CHELATOR COMPOUND 2, 3-DHB.....	1N01 AM52202-00	50,000
CERAMI, ANTHONY.....	STUDY UREA IN THE THERAPY OF UREMIA.....	2N01 HB12371-07	213,000
GOTSCHLICH, EMIL C.....	STUDIES ON MENINGOCOCCAL POLYSACCHARIDE VACCINES.....	2N01 AI12502-06	30,137
ORGANIZATION TOTAL      3	293,137		
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH      ZIP CODE 10021</b>			
BENDICK, AARON.....	EFFECTS OF NUCLEIC ACID PREPARATIONS ON MAMMARY CANCERS.....	2N01 CB43904-01	75,000
FOGH, JORGEN F.....	ISOLATION AND TISSUE CULTURE OF HUMAN TUMOR CELLS.....	2N01 CB43854-01	129,742
HIRSHAUT, YASHAR.....	HUMAN TUMOR ASSOCIATED ANTIGENS AND ANTIBODIES.....	1N01 CB53942-00	73,217
HIRSHAUT, YASHAR.....	EFFORTS OF IMMUNE STIMULANTS ON HUMAN IMMUNE RESPONSE.....	1N01 CB53970-00	123,615
PINSKY, CARL M.....	C. PARVUM AS A THERAPEUTIC ADJUNCT TO BREAST CARCINOMA.....	1N01 CB53873-00	99,272
PRENSKY, WOLF.....	MOLECULAR HYBRIDIZATION STUDIES WITH ACTIVE RNA.....	1N01 CM53820-00	74,884
SCHWARTZ, MORTON K.....	BIOCHEMICAL ANALYSIS OF HUMAN BREAST CYST FLUID.....	1N01 CB53853-00	104,935
STUTMAN, OSIAS.....	CELL-MEDIATED CYTOTOXICITY IN TUMOR IMMUNITY.....	1N01 CB53894-00	57,382
WANEBO, HAROLD J.....	LEVAM AS THERAPEUTIC ADJUNCT IN SQUAMOUS CARCINOMA.....	1N01 CB53875-00	66,455
ORGANIZATION TOTAL      9	804,502		
<b>ST. LUKE'S HOSPITAL CENTER      ZIP CODE 10025</b>			
BERTLES, JOHN F.....	STUDIES OF SICKLE CELL DISEASE.....	2N01 HB22925-03	26,311
KEMP, HARVEY G. JR.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	2N01 HV32978-05	255,551
ORGANIZATION TOTAL      2	281,862		
<b>STATE UNIVERSITY OF NEW YORK—DOWNSTATE MEDICAL CENTER      ZIP CODE 11203</b>			
BROWN, AUDREY K.....	PHOTOTHERAPY FOR NEONATAL HYPERBILIRUBINEMIA.....	3N01 HD42819-04	71,905
CARTER, ANNE C.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	3N01 CM45139-01	325,760
CRAIG, JOHN P.....	ESTABLISH LAB FOR TITRATION OF CHOLERA SKIN TOXINS.....	2N01 AI02091-09	79,000
DAMADIAN, RAYMOND V.....	NMR STUDIES IN NEOPLASTIC & NON-NEOPLASTIC TISSUES.....	5N01 CB43979-01	100,000
SCHIFFMAN, GERALD.....	OPERATION OF PNEUMOCCAL POLYSACCHARIDE REFERENCE LAB.....	2N01 AI42541-01	83,334
TOLLES, WALTER E.....	CELL PREPARATIONS OF GYNECOLOGIC CYTOPATHOLOGY SPECIMENS.....	5N01 CB43955-01	82,677
TOLLES, WALTER E.....	VAGINAL-CERVICAL CELL SAMPLE SOURCES FOR CYTOLOGY.....	1N01 CB53929-00	25,511
ORGANIZATION TOTAL      7	768,187		
<b>STELLA AND CHARLES GUTTMAN BREAST DIAGNOSTIC INSTITUTE      ZIP CODE 10028</b>			
STRAX, PHILIP.....	XEROMAMMOGRAPHY VERSUS FILM MAMMOGRAPHY.....	2N01 CB44012-01	40,500
STRAX, PHILIP.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	9N01 CM55306-00	381,140
ORGANIZATION TOTAL      2	421,640		
<b>YESHIVA UNIVERSITY      ZIP CODE 10033</b>			
AUGUST, J THOMAS.....	STUDY OF MOLECULAR BASIS OF VIRAL CARCINOGENESIS.....	2N01 CP33311-04	410,000
BAUM, GILBERT.....	ULTRASOUND MAMMOGRAPHY.....	2N01 CB23872-06	186,000
BLAUFOX, MORTON D.....	STUDY OF HYPERTENSION THERAPY.....	2N01 HV22931-08	1,325,418
FEIN, JACK M.....	STUDY OXIDATIVE METABOLISM IN CEREBRAL ISCHEMIA.....	1N01 NS52305-00	39,915
GARTNER, LAWRENCE M.....	STUDY OF PHOTOTHERAPY FOR NEONATAL HYPERBILIRUBINEMIA.....	3N01 HD42822-03	201,566
GROLLMAN, ARTHUR P.....	ANTITUMOR DRUGS AND EFFECTS ON PROTEIN SYNTHESIS.....	2N01 CM43787-01	86,582
HOFFMAN, LEE.....	ISOLATION OF CELL TYPES FROM ADULT MAMMALIAN LUNG.....	3N01 HR33014-01	7,859
KIKKAWA, YUTAKA.....	STUDY OF STRUCTURE OF THE LUNGS.....	2N01 HR33013-01	221,323
KIRK, EDWARD S.....	INTERVENTIONS REDUCING MYOCARDIAL INFARCT SIZE.....	1N01 HV52997-00	206,329
LILLY, FRANK.....	GENETIC CONTROL OF IMMUNE RESPONSE IN CANCER.....	2N01 CB43934-01	72,405
LILLY, FRANK.....	FACTORS IN VIRAL LEUKEMOGENESIS.....	2N01 CP33249-03	269,559
MARCUS, DONALD M.....	PURIFICATION OF AN ANTIGEN.....	2N01 CB23871-05	92,700
NAGEL, RONALD L.....	MOLECULAR AND CELLULAR STUDIES ON SICKLE CELL ANEMIA.....	3N01 HB22920-04	159,099
PARK, SUNG SUH.....	PATHOPHYSIOLOGIC STUDY OF SMOKING.....	3N01 HR22940-05	43,326
PEISACH, JACK.....	MICROSOMAL ENZYME STUDIES.....	1N01 CP55606-00	243,628
ROSENBAUM, ROBERT.....	IDENTIFICATION OF LUNG CELLS.....	1N01 HR52952-00	249,616
SOEIRO, RUY.....	HOST RESTRICTION OF FRIEND LEUKEMIA VIRUS.....	2N01 CP43380-01	30,020
ORGANIZATION TOTAL      17	3,845,345		

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>ROCHESTER</b>			
<b>AMERICAN ASSOCIATION FOR CANCER EDUCATION      ZIP CODE 14642</b>			
BAKEMEIR, RICHARD F.....	CANCER EDUCATION IN MEDICAL DENTAL & OSTEOPATHIC SCHOOLS.....	1N01 CN55191-00	387,152
ORGANIZATION TOTAL	1      387,152		
<b>EASTMAN DENTAL CENTER      ZIP CODE 14605</b>			
LEVERETT, DENNIS H.....	COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52462-00	89,482
ORGANIZATION TOTAL	1      89,482		
<b>UNIVERSITY OF ROCHESTER      ZIP CODE 14627</b>			
BETTS, ROBERT F.....	VIRUS INFECTION IN CHRONIC HEMODIALYSIS PATIENTS.....	2N01 AM32218-02	80,167
DOTY, ROBERT W.....	STUDY OF FEASIBILITY OF A SENSORY PROSTHESIS.....	2N01 NS02279-05	59,522
DOUGLAS, R GORDON, JR.....	CLINICAL EVALUATION OF RESPIRATORY VACCINES.....	2N01 AI22503-04	167,232
FISCHER, HARRY W.....	DEVELOPMENT OF METHODS TO CLEANSE THE BOWEL.....	5N01 CB43896-01	74,267
FOWLER, EDWARD H.....	PHARMACOPATHOLOGIC EFFECTS OF MPA.....	2N01 HD32705-06	253,328
HARE, JOHN D.....	TRANSPORT SYSTEMS IN NEOPLASTIC CELLS.....	2N01 CP45611-01	228,295
HILF, RUSSELL.....	STUDIES OF ISOENZYMES IN BREAST TISSUES.....	2N01 CB33880-02	27,000
MAY, ALLYN G.....	HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI22539-04	11,225
PATTERSON, BRADFORD.....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM.....	1N01 CN55273-00	149,459
SCHWARTZ, R H.....	STUDY OF ALPHA 1 ANTITRYPSIN DEFICIENCY.....	3N01 HR12221-05	64,853
WEITKAMP, LOWELL R.....	PRENATAL DIAGNOSIS OF INHERITED BLOOD DISEASES.....	2N01 HB12404-06	30,957
WHEELLESS, LEON L, JR.....	FLUORESCENCE IN FEMALE GENITAL TRACT AND OTHER STUDIES.....	1N01 CB53930-00	186,000
WHEELLESS, LEON L, JR.....	STUDY A SLIT-SCAN TECHNIQUE FOR CANCER DETECTION.....	5N01 CB33862-03	318,244
WILLIAMS, PAUL R.....	STUDY OF ILLEGITIMACY AND SOCIAL RESPONSE.....	1N01 HD52825-00	27,553
ORGANIZATION TOTAL	14      1,678,102		
<b>SARANAC LAKE</b>			
<b>TRUDEAU INSTITUTE      ZIP CODE 12983</b>			
LEFFORD, MAURICE J.....	MAINTAIN A MYCOBACTERIAL CULTURE COLLECTION.....	1N01 AI52529-00	105,295
MACKANESS, GEORGE B.....	PRODUCTION OF AN IMPROVED BCG VACCINE.....	1N01 CB53885-00	80,288
MACKANESS, GEORGE B.....	STUDY OF MYCOBACTERIA AS INHIBITORS OF TUMOR CELL GROWTH.....	2N01 CP23221-07	169,513
ORGANIZATION TOTAL	3      355,096		
<b>WILL ROGERS HOSPITAL      ZIP CODE 12983</b>			
HOSPELHORN, VERNE D.....	SEPARATION AND CHARACTERIZATION OF LUNG ELASTIN.....	5N01 HR42940-01	105,880
ORGANIZATION TOTAL	1      105,880		
<b>SCHENECTADY</b>			
<b>GENERAL ELECTRIC COMPANY-CORPORATE RESEARCH AND DEVELOPMENT CENTER      ZIP CODE 12301</b>			
FISKE, M D.....	STUDY OF PROBLEMS IN ONCOLOGY.....	3N01 CP33231-05	316,950
GRIFFEN, PAUL.....	ULTRASONIC IMAGING SYSTEM.....	1N01 HV52966-00	149,680
ORGANIZATION TOTAL	2      466,630		
<b>STONY BROOK</b>			
<b>STATE UNIVERSITY OF NEW YORK AT STONY BROOK      ZIP CODE 11794</b>			
LANE, BERNARD.....	STUDY OF CARCINOGENESIS IN ORGAN CULTURE.....	3N01 CP33361-02	129,133
LAUTERBUR, PAUL.....	NMR ZENGMATOGRAPHY IN ATHEROSCLEROSIS.....	1N01 HV52970-00	49,995
MILLER, FREDERICK.....	PHYSIOLOGIC SUPPRESSION OF CELL-MEDIATED IMMUNE RESPONSE.....	2N01 AI42533-01	85,479
RIPA, LOUIS W.....	COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECTS.....	1N01 DE52460-00	37,799
ORGANIZATION TOTAL	4      302,406		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>SYRACUSE</b>			
<b>STATE UNIVERSITY OF NEW YORK—UPSTATE MEDICAL CENTER      ZIP CODE 13210</b>			
HENRY, JOHN B.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	1N01 AI52513-00	14,557
STEINSCHEIDER, ALFRED.....	STUDYING SLEEP APNEA AND SIDS: DEVELOPMENTAL CORRELATES.....	1N01 HD52853-00	99,700
THOMAS, F. DEAVER.....	INSTRUCTION TO REMEDIATE DEFICIENCIES IN MATHEMATICS.....	1N01 LM54731-00	24,615
ORGANIZATION TOTAL      3	138,872		
<b>TARRYTOWN</b>			
<b>TECHNICON CORPORATION      ZIP CODE 10591</b>			
BERETSKY, I.....	ULTRASONICS IN ATHEROSCLEROSIS.....	1N01 HV52968-00	148,300
ORGANIZATION TOTAL      1	148,300		
STATE TOTAL      232	35,534,080		
<b>NORTH CAROLINA</b>			
<b>CHAPEL HILL</b>			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL      ZIP CODE 27514</b>			
DENNY, FLOYD W.....	CLINICAL EVALUATION OF RESPIRATORY VACCINES.....	3N01 AI22505-03	57,814
GRISHAM, S W.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	1N01 CP55707-00	111,360
GRIZZLE, JAMES E.....	STUDY OF HYPERLIPOPROTEINEMIA.....	3N01 HV12243-06	82,250
MC MILLAN, CAMPBELL W.....	FACTOR VIII INHIBITORS IN HEMOPHILIA.....	1N01 HB53016-00	116,416
PAGANO, JOSEPH S.....	MOLECULAR STUDIES OF HERPES-TYPE VIRUSES.....	2N01 CP33336-03	135,000
PAGANO, JOSEPH S.....	DETECTION OF CYTOMEGALOVIRUS IN HUMAN LEUKOCYTES.....	2N01 HB22911-04	71,715
PEARLMAN, WILLIAM H.....	MAMMARY GLAND RESPONSIVENESS TO MULTIPLE HORMONES.....	1N01 CB53905-00	82,700
PROCTOR, R J.....	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY.....	5N01 HR42920-01	50,000
SCHEFFLER, RICHARD M.....	STUDY OF ECONOMIC VALUE OF TRAINING IN BIOSCIENCE.....	3N01 OD42152-03	99,778
SCHWAB, JOHN H.....	STUDY OF HUMORAL OR CELLULAR IMMUNOLOGIC RESPONSES.....	2N01 CB43997-01	49,969
ORGANIZATION TOTAL      10	857,002		
<b>DURHAM</b>			
<b>DUKE UNIVERSITY      ZIP CODE 27706</b>			
BOLOGNESI, DANI P.....	STUDIES ON EXPRESSION OF RNA TUMOR VIRUS GENOME.....	2N01 CP33308-04	406,790
DANIELS, CHARLES A.....	RHEUMATOID FACTOR AND INFECTIOUS ANTIBODY COMPLEXES.....	2N01 DE22402-03	15,169
ESTES, HARVEY E.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55234-00	69,631
FRANKLIN, THOMAS D.....	LIPID METABOLISM OF NORMAL AND ISCHEMIC MYOCARDIUM.....	1N01 HV53003-00	59,907
HEYMAN, ALBERT.....	DETECTION OF TIA IN AN ELDERLY COMMUNITY.....	2N01 NS42337-01	84,925
JENNINGS, R B.....	STUDIES IN ISCHEMIC MYOCARDIUM AND INFARCT SIZE.....	1N01 HV52999-00	215,310
LANG, DAVID J.....	RELATION OF BLOOD TRANSFUSION TO CYTOMEGALOVIRUS.....	2N01 HB22910-05	68,444
LESTER, RICHARD G.....	XEROMAMMOGRAPHY VERSUS FILM MAMMOGRAPHY.....	2N01 CB44011-01	60,000
LESTER, RICHARD G.....	EARLY DETECTION OF CANCER OF THE BREAST.....	3N01 CN45064-01	176,667
LESTER, RICHARD G.....	RESERPINE AND BREAST CANCER.....	1N01 CP53556-00	1,164
LYNN, WILLIAM S.....	COMPOSITION OF RESPIRATORY MUCUS.....	1N01 HR52955-00	83,022
MC CARTY, KENNETH S.....	PROTEIN NUCLEIC ACID INTERACTIONS.....	2N01 CB23857-03	45,000
MYERS, GEORGE C.....	METABOLISM OF CONTRACEPTIVE SYNTHETIC ESTROGENS.....	2N01 HD22767-03	68,165
NOT APPLICABLE.....	INTERLIBRARY LOAN SERVICE.....	1N01 LM54723-00	15,000
ODOM, GUY L.....	COOPERATIVE STUDIES IN BRAIN TUMOR CHEMOTHERAPY.....	3N01 CM02030-09	69,492
PALMER, RICHARD A.....	IRON CHELATING AGENTS IN TREATMENT OF COOLEY'S ANEMIA.....	5N01 AM42224-01	19,932
PRATT, PHILIP.....	TEST LUNG TISSUE IN ADULT RESPIRATORY DISTRESS SYNDROME.....	1N01 HR52946-00	166,920
SNYDERMAN, RALPH.....	STUDY OF PERIPHERAL BLOOD MONOCYTES.....	2N01 CP33313-02	109,312
WARD, FRANCES E.....	NCI HISTOCOMPATIBILITY TESTING CENTER.....	1N01 CB53890-00	214,383



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NORTH CAROLINA—Continued</b>			
WELLS, SAMUEL A, JR.....	RELATION OF EMBRYONIC ANTIGEN TO TUMOR ANTIGENS.....	2N01 CP43395-02	104,880
ORGANIZATION TOTAL	20 2,054,113		
<b>RESEARCH TRIANGLE PARK</b>			
<b>BECTON, DICKINSON AND COMPANY—RESEARCH CENTER</b>		<b>ZIP CODE 27709</b>	
CAVENDER, F L.....	EFFECT OF EXPOSURE TO AIRBORNE ENVIRONMENTAL AGENTS.....	5N01 ES42164-02	485,454
ORGANIZATION TOTAL	1 485,454		
<b>RESEARCH TRIANGLE INSTITUTE</b>		<b>ZIP CODE 27709</b>	
BRYAN, FRED A.....	OPERATE MEDICAL REGISTRY OF PATIENTS ON CHRONIC DIALYSIS.....	3N01 AM71387-15	129,840
HORVITZ, DANIEL G.....	HEAD AND SPINAL CORD INJURY.....	5N01 NS42334-03	129,997
KEPLER, JACK.....	THIRD ANNUAL CARCINOGENESIS CONFERENCE IN ORLANDO, FLA.....	1N01 CP55677-00	268
KEPLER, JACK.....	PREPARATION OF CHEMICALS, TASK 2.....	1N01 CP55724-00	38,564
KOO, HELEN P.....	RELATION BETWEEN FERTILITY, MARRIAGE AND REMARRIAGE.....	1N01 HD52838-00	154,130
PITT, COLIN G.....	IRON CHELATING AGENTS IN TREATMENT OF COOLEY'S ANEMIA.....	5N01 AM42225-01	37,248
WALL, MONROE E.....	ISOLATION OF ANTITUMOR PLANT SUBSTANCES.....	5N01 CM92019-11	195,008
WALL, MONROE E.....	STUDY OF DRUG METABOLISM.....	3N01 GM51057-24	562,500
WALL, MONROE E.....	BIODEGRADABLE POLYMERS AND CONTRACEPTIVE DRUGS.....	2N01 HD32741-04	185,262
YASUDA, HIROSUGU K.....	STUDY OF ELECTRODELESS GLOW DISCHARGE & POLYMER SURFACES.....	2N01 HB32913-06	89,662
ORGANIZATION TOTAL	10 1,522,479		
<b>WINSTON-SALEM</b>			
<b>WAKE FOREST UNIVERSITY</b>		<b>ZIP CODE 27109</b>	
ALEXANDER, EBEN, JR.....	STUDIES OF BRAIN TUMOR CHEMOTHERAPY.....	2N01 CM80950-13	15,749
CLARKSON, THOMAS B.....	NONHUMAN PRIMATE MODELS OF ATHEROSCLEROSIS.....	1N01 HV53029-00	382,053
CLARKSON, THOMAS B.....	DOMESTIC SQUIRREL MONKEY PRODUCTION.....	1N01 RR52149-00	208,699
ORGANIZATION TOTAL	3 606,501		
STATE TOTAL	44 5,525,549		
<b>NORTH DAKOTA</b>			
<b>BISMARCK</b>			
<b>NORTH DAKOTA STATE DEPARTMENT OF HEALTH</b>		<b>ZIP CODE 58501</b>	
TO BE APPOINTED.....	PLANNING A STATE-WIDE CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55209-00	49,268
ORGANIZATION TOTAL	1 49,268		
STATE TOTAL	1 49,268		
<b>OHIO</b>			
<b>AKRON</b>			
<b>CHILDREN'S HOSPITAL OF AKRON</b>		<b>ZIP CODE 44308</b>	
FREEMAN, AARON E.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	1N01 CP55706-00	204,475
ORGANIZATION TOTAL	1 204,475		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OHIO—Continued</b>			
<b>BEDFORD</b>			
<b>BEN VENUE LABORATORIES</b>	<b>ZIP CODE 44146</b>		
WICKES, GLENN F.....	DEVELOPMENT OF ANTITUMOR AGENTS .....	3N01 CM43701-03	49,345
WICKES, GLENN F.....	PRODUCE CLINICAL DOSES OF ANTITUMOR AGENTS.....	9N01 CM53811-00	842,565
ORGANIZATION TOTAL	2 891,910		
<b>CHARDON</b>			
<b>GAUGA COUNTY GENERAL HEALTH DISTRICT HEALTH DEPARTMENT</b>	<b>ZIP CODE 44024</b>		
HULL, TERRY E.....	COMMUNITY CARES PREVENTION DEMONSTRATION PROJECT .....	1N01 DE52474-00	88,935
ORGANIZATION TOTAL	1 88,935		
<b>CINCINNATI</b>			
<b>CHILDREN'S HOSPITAL MEDICAL CENTER</b>	<b>ZIP CODE 45229</b>		
LAMPKIN, BEATRICE C.....	CLINICAL CHEMOTHERAPY PROGRAM IN CANCER CONTROL.....	5N01 CN35015-04	78,828
WARKANY, JOSEF.....	ETIOLOGY OF MEDULLOBLASTOMA AND OTHER BRAIN TUMORS.....	2N01 CP33307-02	71,279
ORGANIZATION TOTAL	2 150,107		
<b>CINCINNATI PUBLIC SCHOOLS</b>	<b>ZIP CODE 45202</b>		
TO BE APPOINTED.....	NOISE EXPOSURE & AUDITORY, LANGUAGE & READING SKILLS.....	1N01 NS52325-00	5,725
ORGANIZATION TOTAL	1 5,725		
<b>UNIVERSITY OF CINCINNATI</b>	<b>ZIP CODE 45221</b>		
ADOLPH, ROBERT J.....	STUDIES IN ISCHEMIC, INFARCTED, HEALING &/OR MYOCARDIUM.....	1N01 HV52986-00	285,605
BUNCHER, CHARLES R.....	STATISTICAL SURVEILLANCE OF LUNG CANCER PROJECTS.....	5N01 CB43868-01	169,557
HESS, EVELYN V.....	AUTOIMMUNE PHENOMENA AND MECHANISMS IN HUMAN VASECTOMY.....	2N01 HD32709-04	114,177
MATTHEIS, E BINGHAM.....	STUDY OF CARCINOGENIC PROPERTIES OF INDUSTRIAL CHEMICALS.....	3N01 CP33202-03	78,641
MOSKOWITZ, MYRON.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	9N01 CN55310-00	256,000
MOSKOWITZ, MYRON.....	RESERPINE AND BREAST CANCER.....	1N01 CP53549-00	4,075
OLINGER, CHARLES P.....	ULTRASONIC INSTRUMENTATION FOR ATHEROSCLEROSIS DETECTION.....	1N01 HV52964-00	200,000
ROMHILT, DONALD W.....	CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52930-00	110,339
SUTHERLAND, JAMES M.....	STUDY OF NEONATAL HYPERBILIRUBINEMIA.....	3N01 HD42818-03	89,233
ORGANIZATION TOTAL	9 1,307,627		
<b>CLEVELAND</b>			
<b>CASE WESTERN RESERVE UNIVERSITY</b>	<b>ZIP CODE 44106</b>		
BOAT, THOMAS F.....	COMPOSITION OF RESPIRATORY MUCUS.....	1N01 HR52957-00	539,660
DANIEL, THOMAS M.....	SEROLOGIC TESTING OF MYCOBACTERIAL FRACTIONS.....	2N01 AI42525-01	69,845
EPSTEIN, SAMUEL S.....	ENHANCED INDUCTION OF PANCREATIC ADENOCARCINOMA.....	2N01 CP23284-04	117,008
GOLD, ELI.....	DEVELOPMENT OF SCREENING TEST FOR CYTOMEGALOVIRUS.....	2N01 HB22908-05	45,000
HUBAY, CHARLES A.....	THERAPY OF CARCINOMA OF BREAST.....	2N01 CB43990-01	126,200
MORTIMER, JOHN T.....	STUDY OF INTRAMUSCULAR STIMULATION OF PARALYZED MUSCLE.....	2N01 NS22314-03	193,000
MOSTOW, STEPHEN R.....	IN VITRO ASSAY OF LIVE FLU VIRUS ATTENUATION.....	2N01 AI42542-03	22,970
PEARSON, OLOF H.....	ROLE OF PROLACTIN IN BREAST CANCER.....	2N01 CB23859-03	84,900
POMERANZ, JEROME R.....	STUDY OF IMMUNOLOGY.....	3N01 CP43354-01	136,841
ROBBINS, FREDERICK C.....	STUDY OF CANCER SUBJECTS INOCULATED WITH SV40 VIRUS.....	2N01 CP43201-02	7,590
ORGANIZATION TOTAL	10 1,343,014		
<b>CLEVELAND CLINIC HOSPITAL</b>	<b>ZIP CODE 44106</b>		
BRAUN, WILLIAM E.....	HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI22536-03	12,663
BRAUN, WILLIAM E.....	TYPING OF HUMAN TISSUES.....	2N01 AI81298-11	107,040

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OHIO—Continued</b>			
NOSE, YUKIHIKO .....	NEW CONCEPTS IN BLOOD-ACCESS DEVICES .....	3N01 AM22222-03	16,000
NOSE, YUKIHIKO .....	PREPARATION OF BIOLOGICAL TEST SPECIMENS AND BLOOD PUMPS .....	2N01 HB32914-04	28,750
NOSE, YUKIHIKO .....	DEVELOPMENT AND EVALUATION OF CARDIAC PROSTHESES .....	2N01 HV42960-01	251,584
ORGANIZATION TOTAL	5 416,037		
<b>COLUMBUS</b>			
<b>AMERICAN CHEMICAL SOCIETY—CHEMICAL ABSTRACTS SERVICE</b>		<b>ZIP CODE 43202</b>	
BROWN, CARTER N. ....	COMPUTER-BASED REGISTRY SYSTEM .....	3N01 CM51021-21	49,600
BROWN, CARTER N. ....	CHEMICAL ABSTRACTS SERVICE REGISTRY-BASED SERVICES .....	1N01 LM54739-00	156,200
SEALS, JAMES V. ....	DEVELOPMENT OF SYSTEM FOR IDENTIFYING DRUGS .....	3N01 CM43722-01	482,000
ORGANIZATION TOTAL	3 687,800		
<b>BATTELLE MEMORIAL INSTITUTE</b>		<b>ZIP CODE 43201</b>	
BARKER, ANNA D. ....	IN VIVO SCREENING FOR ANTICANCER ACTIVITY .....	1N01 CM57005-00	1,092,471
FOLK, ROGER M. ....	STUDY OF TOXICOLOGY OF COMPOUNDS .....	5N01 CM43746-08	1,394,014
GARDNER, DAVID L. ....	STUDY OF INTRAUTERINE MICROCAPSULES .....	2N01 HD12230-04	110,399
LEININGER, ROBERT I. ....	STUDY OF IDMAC/HEPARIN AND TCMAC/HEPARIN COMPLEX .....	2N01 HB32918-03	101,000
MARGARD, W L. ....	INCIDENCE OF SALMONELLA CARRIERS .....	3N01 CM02008-08	56,054
SIMON, R. ....	DEVELOP AND IMPLEMENT THE LABORATORY ANIMAL DATA BANK .....	1N01 LM54747-00	384,806
ORGANIZATION TOTAL	6 3,138,744		
<b>INTERNATIONAL ASSOCIATION FOR COMPARATIVE RESEARCH ON LEUKEMIA AND RELATED DISEASES</b>		<b>ZIP CODE 43210</b>	
YOHN, DAVID S. ....	SYMPOSIUM ON COMPARATIVE LEUKEMIA RESEARCH .....	1N01 CP53572-00	50,000
ORGANIZATION TOTAL	1 50,000		
<b>NORTH AMERICAN PHILIPS CORPORATION—PHILIPS ROXANE LABORATORIES</b>		<b>ZIP CODE 43215</b>	
EBERT, WILLIAM R. ....	PREPARE ORAL DOSAGE FORMS OF INVESTIGATIONAL DRUGS .....	2N01 CM12139-07	73,206
ORGANIZATION TOTAL	1 73,206		
<b>OHIO COLLEGE LIBRARY CENTER</b>		<b>ZIP CODE 43220</b>	
NOT APPLICABLE .....	MAINTAIN TERMINALS; TIME-SHARING COMPUTER SERVICES .....	1N01 LM54708-00	22,146
ORGANIZATION TOTAL	1 22,146		
<b>OHIO STATE UNIVERSITY</b>		<b>ZIP CODE 43210</b>	
BALCERZAK, STANLEY P. ....	DEVELOPMENT OF THERAPY FOR SICKLE CELL DISEASE .....	2N01 HB22922-04	84,808
HORTON, DEREK .....	FRAUDULENT SUGARS RELATED TO DAUNOSAMINE .....	1N01 CM57015-00	77,181
HUNT, WILLIAM E. ....	EXPERIMENTAL CHEMOTHERAPY ON BRAIN-TUMOR PATIENTS .....	3N01 CM71175-11	38,281
KING, GERALD W. ....	QUANTITATIVE ASSAYS OF MONOCYTE-MACROPHAGE FUNCTION .....	1N01 CB53936-00	75,446
KLASSEN, KARL P. ....	THERAPY OF PATIENTS WITH BRONCHOGENIC CARCINOMA .....	5N01 CM33736-03	95,390
LO BUGLIO, ALBERT F. ....	STUDY OF TRANSFER-FACTOR IMMUNOTHERAPY .....	2N01 CB43878-01	144,000
MALSPEIS, LOUIS .....	CLINICAL PHARMACOLOGY OF POTENTIAL ANTICANCER AGENTS .....	1N01 CM53828-00	104,660
NEWMAN, MELVIN S. ....	PREPARATION OF POLYMERS CONTAINING CARCINOGENIC MOIETIES .....	5N01 CP43248-01	31,100
NOT APPLICABLE .....	AN ANALYSIS OF TEACHING SKILLS .....	1N01 LM54746-00	128,807
OLSEN, RICHARD G. ....	IMMUNOBIOLOGIC RESPONSES TO ONCORNAVIRUSES .....	1N01 CP53571-01	208,920
REDMOND, ROBERT F. ....	DEVELOPMENT OF GAMMA CAMERA SYSTEM FOR NUCLEAR MEDICINE .....	3N01 NS22323-05	36,871
ROSEN, SAMUEL .....	EFFICACY OF ENZYME-FREE ANTIGENS IN ANTICANCER VACCINES .....	1N01 DE52450-00	92,460
ROSEN, SAMUEL C. ....	DETERMINE COMPOSITION OF PLAQUE .....	1N01 DE52451-00	144,500
YOHN, DAVID S. ....	STUDY OF BIOHAZARDS IN ONCOGENIC VIRUS RESEARCH .....	2N01 CP43217-01	152,280
YOHN, DAVID S. ....	INTERACTION BETWEEN CHEMICAL AND VIRAL CARCINOGENS .....	2N01 CP43276-02	131,849
ZWILLING, BRUCE S. ....	CHEMICAL CARCINOGENESIS AND IMMUNITY .....	1N01 CP53329-00	187,833
ORGANIZATION TOTAL	16 1,734,386		

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OHIO—Continued</b>			
<b>DAYTON</b>			
<b>MONSANTO COMPANY—DAYTON LABORATORY      ZIP CODE 45418</b>			
ELLARD, JAMES A.....	LABORATORY SUPPORT FOR RESYNTHESIS OF DRUGS & CHEMICALS.....	5N01 CM33709-04	396,226
YANKO, WILLIAM H.....	PREPARATION OF RADIOACTIVE LABELED MATERIALS.....	5N01 CM23715-04	254,272
ORGANIZATION TOTAL	2      650,498		
<b>WRIGHT STATE UNIVERSITY      ZIP CODE 45431</b>			
HAY, ROBERT J.....	DEVELOPMENT OF CELL-CULTURE TECHNIQUES.....	2N01 CP43231-01	56,679
HAY, ROBERT J.....	DEVELOPMENT OF CELL STRAINS FROM LUNGS.....	2N01 HR33016-01	54,450
ORGANIZATION TOTAL	2      111,129		
<b>KETTERING</b>			
<b>COX HEART INSTITUTE      ZIP CODE 45429</b>			
KEZDI, PAUL.....	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE.....	3N01 HV33108-03	122,775
KEZDI, PAUL.....	STUDIES IN ISCHEMIC MYOCARDIUM AND INFARCT SIZE.....	1N01 HV53005-00	70,001
ORGANIZATION TOTAL	2      192,776		
<b>TOLEDO</b>			
<b>MEDICAL COLLEGE OF OHIO AT TOLEDO      ZIP CODE 43614</b>			
LEIGHTON, RICHARD F.....	ISCHEMIC SIZE, INFARCTED, HEALING & SCARRED MYOCARDIUM.....	1N01 HV52987-00	246,579
ORGANIZATION TOTAL	1      246,579		
STATE TOTAL	66      11,315,094		
<b>OKLAHOMA</b>			
<b>OKLAHOMA CITY</b>			
<b>OKLAHOMA MEDICAL RESEARCH FOUNDATION      ZIP CODE 73104</b>			
BRADFORD, REAGAN H.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV22932-04	1,924,000
CANTRELL, JOHN L.....	NEW APPROACHES TO IMMUNOTHERAPY.....	1N01 CB53937-00	64,796
CARUBELLI, ROAUL.....	COMPOSITION OF RESPIRATORY MUCUS.....	1N01 HR52956-00	154,407
HUMPHREY, GEORGE B.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45137-01	311,852
KOLLMORGEN, MARK G.....	STUDY OF ANIMAL MODELS FOR EVALUATION OF IMMUNOTHERAPY.....	2N01 CB43864-01	135,451
ORGANIZATION TOTAL	5      2,590,506		
<b>OKLAHOMA STATE DEPARTMENT OF HEALTH      ZIP CODE 73105</b>			
SMITH, JAMES W.....	EXPANSION OF OKLAHOMA CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45077-02	377,200
ORGANIZATION TOTAL	1      377,200		
<b>UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER      ZIP CODE 73190</b>			
HABERMAN, JOANN D.....	THERMOGRAPHY TECHNOLOGIST TRAINING PROGRAM.....	1N01 CN55163-00	46,000
HABERMAN, JOANN D.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	9N01 CN55309-00	266,000
NUNNERY, ARTHUR.....	EVALUATION OF A CLINICAL RESEARCH DATA SYSTEM.....	1N01 RR52119-00	25,748
OLEINICK, SAMUEL R.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	1N01 AI52512-00	10,096
PATTERSON, C D.....	STUDY OF ALPHA 1 ANTITRYPSIN DEFICIENCY.....	3N01 HR12220-05	35,537
ORGANIZATION TOTAL	5      383,381		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OKLAHOMA—Continued</b>			
<b>STILLWATER</b>			
<b>OKLAHOMA STATE UNIVERSITY      ZIP CODE 74074</b>			
CARRAWAY, KERMIT L.....	INTERACTION OF BASEMENT MEMBRANES WITH PLATELETS.....	5N01 HB42983-02	30,000
EBNER, KURT E.....	STUDY OF EFFECTOR MOLECULES AND CELLULAR BIOCHEMISTRY.....	2N01 CB33910-04	112,000
EISENBAUM, E J.....	SYNTHESIS OF ANTIFERTILITY COMPOUNDS.....	3N01 HD42846-01	9,465
ORGANIZATION TOTAL	3      151,465		
<b>TULSA</b>			
<b>HILLCREST MEDICAL CENTER      ZIP CODE 74104</b>			
LABADIE, ALICE J.....	ONCOLOGY NURSING PROGRAMS IN COMMUNITY HOSPITALS.....	1N01 CN55181-00	72,874
ORGANIZATION TOTAL	1      72,874		
STATE TOTAL	15      3,575,426		
<b>OREGON</b>			
<b>CORVALLIS</b>			
<b>OREGON STATE HIGHER EDUCATION SYSTEM—OREGON STATE UNIVERSITY      ZIP CODE 97331</b>			
BAYNE, C J.....	CULTIVATION OF MOLLUSCAN CELL LINES.....	2N01 AI22527-04	51,859
BILLS, DONALD D.....	DEVELOPMENT OF N-NITROSO COMPOUNDS.....	2N01 CP43348-01	54,024
REED, DONALD J.....	STUDY OF METABOLISM OF ANTINEOPLASTIC AGENTS.....	3N01 CM23201-05	100,309
ORGANIZATION TOTAL	3      206,192		
<b>PORTLAND</b>			
<b>EMANUEL HOSPITAL      ZIP CODE 97227</b>			
STANWOOD, JOHN E.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES.....	1N01 CN55182-00	230,283
ORGANIZATION TOTAL	1      230,283		
<b>GOOD SAMARITAN HOSPITAL AND MEDICAL CENTER      ZIP CODE 97210</b>			
DOW, ROBERT S.....	FEASIBILITY STUDY FOR COMPREHENSIVE EPILEPSY PROGRAM.....	3N01 NS42316-01	9,985
GOODMAN, MORTON J.....	SUPPORT FOR CANCER-DETECTION PROGRAM.....	2N01 CN45088-01	245,722
SCHIMMSCHOCK, JAMES R.....	A COMPREHENSIVE EPILEPSY PROGRAM.....	1N01 NS52328-00	990,131
ORGANIZATION TOTAL	3      1,245,838		
<b>MEDICAL RESEARCH FOUNDATION OF OREGON      ZIP CODE 97207</b>			
ALEXANDER, NANCY J.....	LONG-TERM EFFECTS OF VASECTOMY.....	3N01 HD42866-01	100,279
MALLEY, ARTHUR.....	PURIFICATION OF HUMAN TUMOR ASSOCIATED ANTIGENS.....	1N01 CB53954-00	66,314
ORGANIZATION TOTAL	2      166,593		
<b>OREGON STATE HIGHER EDUCATION SYSTEM—PORTLAND STATE UNIVERSITY      ZIP CODE 97207</b>			
FISHER, THELMA N.....	SUPPLY OF PROSTATIC EPITHELIAL CELL LINES.....	2N01 CP43256-01	50,000
ORGANIZATION TOTAL	1      50,000		
<b>OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON HEALTH SCIENCES CENTER      ZIP CODE 97201</b>			
BUIST, A SONIA.....	STUDY TO STANDARDIZE MEASUREMENT OF CLOSING VOLUME.....	2N01 HR32900-04	110,130
CLARK, WILLIAM.....	PREGNANCY FACTORS AND RESULTANT CHILD OUTCOME.....	5N01 NS80010-09	26,957
CREAMER, HOWARD R.....	PERIODONTAL DISEASE IN PATIENTS WITH IMMUNE DISORDERS.....	1N01 DE52455-00	133,500
GOODNIGHT, SCOTT H.....	COOPERATIVE STUDY OF FACTOR VIII INHIBITOR IN HEMOPHILIA.....	1N01 HB53024-00	102,482
HECHT, FREDERICK.....	COORDINATION OF REGIONAL CYTOGENETIC REGISTRIES.....	3N01 HD32713-05	89,842

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OREGON—Continued</b>			
PIROFSKY, BERNARD.....	PREPARATION OF GAMMA GLOBULIN.....	2N01 HB32942-03	92,249
ORGANIZATION TOTAL	6 555,160		
STATE TOTAL	16 2,454,066		
<b>PENNSYLVANIA</b>			
<b>BALA-CYNWYD</b>			
U.S. SMALL BUSINESS ADMINISTRATION ZIP CODE 19004			
JOHNSON, FORD.....	CATALOGUE OF PUBLIC INFORMATION AND CANCER EDUCATION.....	1N01 CN55259-00	194,031
MATHUR, VINIA C.....	ASSEMBLE AND DISTRIBUTE NCI COMMITTEE BOOKS.....	1N01 CO55170-00	136,124
TING, ROBERT C.....	RNA TUMOR VIRUS TRANSFORMATION OF SKIN FIBROBLAST CELLS.....	2N01 CP43365-01	31,969
WEBSTER, CAROL.....	PUBLICATION OF CANCER COMMITTEE BOOKS.....	3N01 CO45404-04	20,769
ORGANIZATION TOTAL	4 382,893		
<b>CHESTER SPRINGS</b>			
COUNCIL FOR THE ADVANCEMENT OF SCIENCE WRITING ZIP CODE 19425			
FRALEY, PIERRE C.....	SCIENCE WRITERS-IN-RESIDENCE AT RESEARCH INSTITUTIONS.....	1N01 OD52123-00	58,270
ORGANIZATION TOTAL	1 58,270		
<b>DANVILLE</b>			
INSTITUTE FOR MEDICAL EDUCATION AND RESEARCH ZIP CODE 17821			
LAUBACH, CHARLES A.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52920-00	102,290
ORGANIZATION TOTAL	1 102,290		
<b>HERSHEY</b>			
PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER ZIP CODE 17033			
BARDIN, CLYDE W.....	ASSAY OF PROGESTERONE RECEPTOR ACTIVITY IN UTERUS.....	3N01 HD12228-07	111,266
BARDIN, CLYDE W.....	COMPARATIVE STUDY OF PROGESTIN METABOLISM.....	3N01 HD22730-05	422,732
BARTLETT, GERALD L.....	STUDY OF CANCER IMMUNOTHERAPY.....	2N01 CB33891-01	164,380
DAVIDSON, EUGENE A.....	COMPOSITION OF RESPIRATORY MUCUS.....	1N01 HR52954-00	139,134
EYSTER, M ELAINE.....	STUDY OF FACTOR VIII INHIBITOR IN HEMOPHILIA.....	1N01 HB53021-00	111,227
KREIDER, JOHN W.....	STUDY OF IMMUNE-RELATED CELLS IN TUMORS.....	2N01 CB43931-01	69,118
LANORE, KATHRYN F.....	BIOCHEMISTRY OF MITOCHONDRIA.....	1N01 HV52994-00	86,074
MUNGER, B L.....	STUDY OF DEVELOPMENT OF ORAL SENSORY RECEPTORS.....	2N01 DE22401-04	50,970
PIERCE, WILLIAM S.....	DEVELOPMENT OF AN ARTIFICIAL HEART.....	3N01 HV32966-03	218,129
RAPP, FRED.....	ONCOGENIC POTENTIAL OF DEFECTIVE HUMAN VIRUSES.....	9N01 CP53516-00	493,000
SANTEN, RICHARD J.....	SUPPRESSION OF ENDOCRINE FUNCTION IN HUMAN BREAST CANCER.....	1N01 CB53851-00	200,000
ORGANIZATION TOTAL	11 2,066,030		
<b>KING OF PRUSSIA</b>			
PENNWALT CORPORATION—TECHNOLOGICAL CENTER ZIP CODE 19406			
BLOCK, PETER B.....	STUDY ON SYNTHESIS OF COORDINATION COMPOUNDS.....	3N01 CM12309-06	32,845
ORGANIZATION TOTAL	1 32,845		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>PENNSYLVANIA—Continued</b>			
<b>LANCASTER</b>			
<b>ST. JOSEPH HOSPITAL</b>	<b>ZIP CODE 17604</b>		
COURSIN, DAVID B.	DEVELOPMENT OF EEG RECORDING SYSTEM	2N01 HD42816-03	87,820
ORGANIZATION TOTAL	1	87,820	
<b>PHILADELPHIA</b>			
<b>ALBERT EINSTEIN MEDICAL CENTER</b>	<b>ZIP CODE 19141</b>		
ISARD, HAROLD J.	PROGRAM FOR DETECTING CANCER OF THE BREAST	2N01 CN45058-01	180,737
ISARD, HAROLD J.	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER	1N01 CN55246-00	307,147
ISARD, HAROLD J.	RESERPINE AND BREAST CANCER	1N01 CP53551-00	942
ORGANIZATION TOTAL	3	488,826	
<b>ANIMATION ARTS ASSOCIATES</b>	<b>ZIP CODE 19130</b>		
NOT APPLICABLE	PREPARATION OF MEDICAL ILLUSTRATIONS	3N01 LM34723-05	1,753
NOT APPLICABLE	PROVIDE MEDICAL ILLUSTRATION SERVICES	4N01 LM54732-00	15,204
ORGANIZATION TOTAL	2	16,957	
<b>BOOZ, ALLEN AND HAMILTON—NATIONAL ANALYSTS</b>	<b>ZIP CODE 19106</b>		
GOLDMAN, ALFRED E.	INCIDENCE, PREVALENCE AND COSTS OF MULTIPLE SCLEROSIS	3N01 NS42335-03	60,329
GREENBERG, MARSHALL G.	SURVEY OF HEALTH CHARACTERISTICS OF TWINS	3N01 HV33111-04	11,085
ORGANIZATION TOTAL	2	71,414	
<b>CHILDREN'S HOSPITAL OF PHILADELPHIA</b>	<b>ZIP CODE 19104</b>		
EVANS, AUDREY E.	PEDIATRIC ONCOLOGY PROGRAM AND CONTROL TUMOR REGISTRY	1N01 CN55258-00	477,859
HENLE, GERTRUDE	PROPAGATION AND SEROEPIDEMIOLOGY OF EB VIRUS	5N01 CP33272-02	161,080
HUMMELER, KLAUS	MULTIPLE SCLEROSIS ETIOLOGY BY EIM TECHNIQUE	1N01 NS52311-00	65,630
ORGANIZATION TOTAL	3	704,569	
<b>COLLEGE OF PHYSICIANS OF PHILADELPHIA</b>	<b>ZIP CODE 19103</b>		
NOT APPLICABLE	REGIONAL MEDICAL LIBRARY SERVICES	2N01 LM14715-12	187,466
ORGANIZATION TOTAL	1	187,466	
<b>FRANKLIN INSTITUTE OF THE STATE OF PENNSYLVANIA</b>	<b>ZIP CODE 19103</b>		
CRAIG, PAUL N.	REVIEW OF CARCINOGENIC BIOASSAY STUDIES	3N01 CP43302-01	1,356
CRAIG, PAUL N.	LITERATURE SURVEY FOR AMINES	1N01 CP55620-00	4,962
CRAIG, PAUL N.	METABOLIC FATE OF 32 CARCINOGENIC AZO COMPOUNDS	1N01 CP55633-00	5,304
CRAIG, PAUL N.	CARCINOGENESIS PROGRAM OF ABSTRACTS	1N01 CP55635-00	3,431
CRAIG, PAUL N.	CONDUCT LITERATURE SURVEY	1N01 CP55636-00	29,215
CRAIG, PAUL N.	CONDUCT LITERATURE SURVEY	1N01 CP55637-00	14,919
CRAIG, PAUL N.	EDITING OF SAFETY MONOGRAPHS FOR THIRTEEN CARCINOGENS	1N01 CP55652-00	14,070
CRAIG, PAUL N.	INFORMATION SUPPORT FOR OCCUPATIONAL CANCER REGISTRY	1N01 CP55683-00	30,373
CRAIG, PAUL N.	GIANT HAMSTER ATLAS-REVIEW	1N01 CP55687-00	22,826
CRAIG, PAUL N.	PESTICIDE LITERATURE SURVEY	1N01 CP55690-00	13,993
CRAIG, PAUL N.	IN-DEPTH TECHNICAL SUMMARIES OF RESEARCH CONTRACTS	1N01 CP55723-00	9,511
KELLY, M. ROBERT	STATE OF THE ART SURVEY IN DIET, NUTRITION AND CANCER	1N01 CP55680-00	44,038
KLEINSTEIN, BRUCE H.	PREPARATION OF GASTROENTEROLOGY ABSTRACTS AND CITATIONS	3N01 AM42204-01	119,062
KLEINSTEIN, BRUCE H.	PREPARATION OF CANCER THERAPY ABSTRACTS VOLUMES 16 & 17	1N01 CM53771-00	298,449
KLEINSTEIN, BRUCE H.	PREPARATION OF CARCINOGENESIS ABSTRACTS	3N01 CP43293-02	19,884
KRONICK, PAUL I.	APPLICATION OF HYDROGELS TO POLYMERIC SURFACES	2N01 HB12017-08	92,520
NEMES, MARJORIE M.	PREPARATION OF ABSTRACTS FROM CANCER-RELATED LITERATURE	1N01 CO55220-00	138,972
NOT APPLICABLE	DELIVER PESTICIDE ABSTRACTS IN COMPUTER TAPE	1N01 LM54719-00	8,990
SCOTT, HARVEY	HYDROGEL GRAFT-COATED PLASTIC PARTS FOR HEMODIALYSIS	2N01 AM22212-04	1,000
TAUBER, STEPHEN	TECHNICAL SUPPORT SERVICES FOR THE ICROB PROGRAM	1N01 CO55193-00	225,988

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>PENNSYLVANIA—Continued</b>			
TAUBER, STEPHEN.....	PHOTOCOPIES OF CITATIONS.....	1N01 CP55722-00	685
ORGANIZATION TOTAL	21 1,099,548		
<b>HANNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA ZIP CODE 19102</b>			
BRADY, LUTHER W.....	CLINICAL APPLICATION OF ELECTRON RADIOGRAPHY.....	5N01 CB43992-01	82,311
BRADY, LUTHER W.....	NETWORK DEMONSTRATION PROJECT IN HEAD AND NECK CANCER.....	1N01 CN55255-00	191,051
SHINNICK, JAMES P.....	ACUTE RESPIRATORY INSUFFICIENCY EDUCATIONAL PROGRAMS.....	2N01 HR42966-01	296,600
ORGANIZATION TOTAL	3 569,962		
<b>INSTITUTE FOR CANCER RESEARCH ZIP CODE 19111</b>			
ENGSTROM, PAUL F.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45055-01	264,032
PUTNEY, DONALD H.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55237-00	212,599
ORGANIZATION TOTAL	2 476,631		
<b>INSTITUTE FOR SCIENTIFIC INFORMATION ZIP CODE 19106</b>			
MALIN, MORTON V.....	COMPUTER ACCESSED BIBLIOGRAPHIC AND CITATION DATA.....	2N01 CB33864-05	28,284
ORGANIZATION TOTAL	1 28,284		
<b>LANKENAU HOSPITAL ZIP CODE 19151</b>			
DREIFUS, LEONARD S.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52938-00	157,978
ORGANIZATION TOTAL	1 157,978		
<b>MEDICAL COLLEGE OF PENNSYLVANIA ZIP CODE 19129</b>			
PAUCKER, KURT.....	PRODUCTION OF PURE ANTIBODY TO INTERFERON.....	1N01 AI52520-00	57,553
ZAJAC, BARBARA A.....	SUPPLY OF EB VIRUS-ASSOCIATED ANTIGENS.....	2N01 CP43319-01	86,604
ORGANIZATION TOTAL	2 144,157		
<b>PHILADELPHIA GERIATRIC CENTER ZIP CODE 19141</b>			
ALTSCHULER, HENRY.....	COLLECTION OF SERA FROM HIGH CANCER-RISK POPULATIONS.....	2N01 CB33914-01	44,665
ORGANIZATION TOTAL	1 44,665		
<b>TEMPLE UNIVERSITY ZIP CODE 19122</b>			
CLARK, WALLACE H, JR.....	INDUCTION OF MALIGNANT MELANOMAS IN GUINEA PIGS.....	2N01 CP33200-04	61,422
FARBER, EMMANUEL.....	COMPONENTS OF HEPATIC CARCINOGENESIS.....	2N01 CP33262-02	48,238
FORBES, P D.....	STUDY OF INDUCED CANCER OF THE SKIN.....	5N01 CP43271-02	147,577
HONTZ, ARTHUR C.....	VAGINAL-CERVICAL CELL SOURCES FOR CYTOLOGY AUTOMATION.....	5N01 CB43937-01	33,742
LAYPAYOWKER, MARC.....	RESERPINE AND BREAST CANCER.....	1N01 CP53552-00	725
LOSCIUTO, LEONARD A.....	PHYSICIANS ATTITUDES TOWARD ABORTION STUDY.....	3N01 HD12142-05	53,657
MARDER, VICTOR J.....	CLINICAL TRIALS OF SULFINPYRAZONE AND LOW DOSE HEPARIN.....	3N01 HB42978-02	13,054
ORGANIZATION TOTAL	7 358,415		
<b>THOMAS JEFFERSON UNIVERSITY ZIP CODE 19107</b>			
MANTHEI, ROLAND W.....	STUDY PHARMACOLOGY OF NEW ANTITUMOR AGENTS.....	3N01 CM02136-06	25,810
MAURER, PAUL H.....	SPECIFICITY OF ANTIGEN-BINDING RECEPTORS OF T-CELLS.....	2N01 CB43999-01	54,000
SHAPIRO, SANDOR S.....	FACTOR VIII INHIBITORS IN HEMOPHILIA.....	1N01 HB53018-00	87,383
SHAPIRO, SANDOR S.....	FACTOR VIII INHIBITORS IN HEMOPHILIA.....	1N01 HB53035-00	332,262
SIMENHOFF, MICHAEL L.....	STUDY OF AMINE METABOLISM IN UREMIA.....	2N01 AM22209-04	83,858
SMITH, HARRY L, JR.....	SUPPORT FOR CHOLERA VIBRIO REFERENCE LABORATORY.....	3N01 AI32502-04	5,000
WALLACE, JOHN D.....	STUDY OF THERMOGRAPHY IN SCREENING FOR BREAST CANCER.....	2N01 CN35027-03	997,400
ORGANIZATION TOTAL	7 1,585,713		
<b>UNIVERSITY CITY SCIENCE CENTER ZIP CODE 19104</b>			
SCHENK, PERRY A.....	DATA CENTER FOR BREAST CANCER DEMONSTRATION PROJECTS.....	3N01 CN45161-02	932,826
SCHENK, PERRY A.....	CASE CONTROL STUDY OF RESERPINE AND BREAST CANCER.....	1N01 CP53558-00	21,472
ORGANIZATION TOTAL	2 954,298		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>PENNSYLVANIA—Continued</b>			
<b>UNIVERSITY OF PENNSYLVANIA      ZIP CODE 19174</b>			
ARAI, KAZUHIKO.....	DEVELOPMENT OF METHOD TO PREPARE CYTOPATHOLOGY SPECIMENS.....	2N01 CB43967-01	55,927
ASAKURA, TOSHIO.....	STUDY OF SICKLE CELL DISEASE.....	2N01 HB22962-05	200,000
AUSTRIAN, ROBERT.....	SURVEILLANCE OF PNEUMOCOCCAL INFECTION.....	2N01 AJ32517-04	535,209
CAGAN, ROBERT H.....	EVALUATION OF THE SWEET-TASTING PROTEIN MONELLIN.....	2N01 DE22413-03	62,797
CHANCE, BRITTON.....	BIOENERGETIC ASPECTS OF CANCER CHEMOTHERAPEUTIC AGENTS.....	9N01 CM53830-00	21,422
EDMUNDS, L HENRY, JR.....	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY.....	5N01 HR42922-02	75,185
GASIC, GABRIEL J.....	EFFECTIVENESS OF NEURAMINIDASE IN TUMOR IMMUNOTHERAPY.....	2N01 CB33860-01	32,933
KUHL, DAVID E.....	COMPUTERIZED TRANSAXIAL NUCLEIDE RECONSTRUCTION.....	1N01 CB53859-00	71,825
KUHL, DAVID E.....	COMPUTERIZED AZIAL TOMOGRAPHY IN ACUTE HEAD INJURY.....	1N01 NS52316-00	203,016
LEFKOVITZ, DAVID.....	SUPPORT FOR PROCESSING SYSTEM OF CHEMICAL INFORMATION.....	3N01 CM33719-03	161,497
MYERS, HOWARD M.....	IMMUNE STATUS WITH SEVERE PERIODONTAL DISEASE.....	1N01 DE52453-00	133,150
ROSENBLOOM, JOEL.....	SEPARATION AND CHARACTERIZATION OF LUNG ELASTIN.....	2N01 HR42943-01	152,180
WILLIAMSON, JOHN R.....	METABOLIC EFFECTS OF ISCHEMIA.....	1N01 HV52995-00	76,532
WOLF, DON P.....	STUDY OF HUMAN CERVICAL MUCUS.....	3N01 HD42838-02	85,902
YANKELL, SAMUEL L.....	SCREENING OF ANTIPLAQUE AND ANTIMICROBIAL AGENTS.....	1N01 DE52484-00	41,670
ZWEIMAN, BURTON.....	IN VITRO TEST FOR SARCOIDOSIS.....	3N01 HR42955-01	160,623
ORGANIZATION TOTAL	16      2,069,868		
<b>WILLS EYE HOSPITAL      ZIP CODE 19130</b>			
TASMAN, WILLIAM S.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32119-03	34,000
ORGANIZATION TOTAL	1      34,000		
<b>WISTAR INSTITUTE OF ANATOMY AND BIOLOGY      ZIP CODE 19104</b>			
DIAMOND, LEILA.....	STUDIES ON SIGNIFICANCE OF MUTATION IN CARCINOGENESIS.....	1N01 CP55655-00	105,340
MANSON, LIONEL A.....	ANTIBODIES TO CARCINOMA IN EXPERIMENTAL ANIMALS.....	2N01 CB43882-01	82,000
STEWLEWSKI, ZENON S.....	IN VITRO TEST FOR SARCOIDOSIS.....	5N01 HR42956-01	168,790
ORGANIZATION TOTAL	3      356,130		
<b>PITTSBURGH</b>			
<b>ALLEGHENY GENERAL HOSPITAL      ZIP CODE 15212</b>			
LESHER, SAMUEL W.....	STUDY OF BIOLOGICAL EFFECT OF CHEMOTHERAPEUTIC DRUGS.....	2N01 CM43730-01	84,000
SCHIFFER, LEWIS M.....	STUDY OF CELL KINETICS OF BREAST CANCER.....	2N01 CB43899-02	138,500
SHRIVASTAVA, PRAKASH N.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	2N01 CN45148-02	156,400
ORGANIZATION TOTAL	3      378,900		
<b>CARNEGIE-MELLON UNIVERSITY      ZIP CODE 15213</b>			
BERRY, GUY C.....	MODIFICATION OF SILICONE ELASTOMERS FOR MEDICAL DEVICES.....	2N01 HB32949-08	67,400
ORGANIZATION TOTAL	1      67,400		
<b>EYE AND EAR HOSPITAL OF PITTSBURGH      ZIP CODE 15213</b>			
ARAMANY, MOHAMED A.....	TRAINING PROGRAMS FOR DENTAL TECHNICIANS.....	1N01 CN55184-00	281,350
BILGER, ROBERT C.....	EVALUATE IMPLANTED AUDITORY PROSTHESES.....	1N01 NS52331-00	76,604
ORGANIZATION TOTAL	2      357,954		
<b>UNIVERSITY OF PITTSBURGH      ZIP CODE 15260</b>			
BRINTON, CHARLES C.....	DEVELOPMENT OF GONOCOCCAL PILUS VACCINE FOR GONORRHEA.....	1N01 AI52539-00	120,000
FISHER, BERNARD.....	PRIMARY BREAST CANCER THERAPY GROUP.....	2N01 CB23876-03	494,000
FISHER, BERNARD.....	SCREENING FOR EARLY DETECTION OF CANCER OF THE BREAST.....	2N01 CN45065-02	173,133
FISHER, BERNARD.....	PLANNING FOR A COMMUNITY-BASED CANCER CONTROL PROGRAM.....	1N01 CN55268-00	151,000
GRIECO, PAUL A.....	SYNTHESIS OF METHYL PROSTAGLANDINS.....	3N01 HD32737-02	21,180
HQ, MONTO.....	RELATIONSHIP OF TRANSFUSION TO CYTOMEGALOVIRUS INFECTION.....	9N01 HB52903-00	60,000
HOLLAND, AUDREY L.....	APHASIC PATIENTS' COMMUNICATIVE PERFORMANCE.....	1N01 NS52317-00	87,586
KULLER, LEWIS H.....	SUPPORT FOR CLINICAL CENTER FOR CORONARY HEART DISEASE.....	3N01 HV33109-02	35,477
PASEASIO, ANNE.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES & DEPT.....	1N01 CN55298-00	313,543

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>PENNSYLVANIA—Continued</b>			
SAFAR, PETER.....	ACUTE RESPIRATORY INSUFFICIENCY EDUCATIONAL PROGRAMS.....	5N01 HR42965-01	175,750
SASHIN, DONALD .....	SCREENING FOR CANCER OF THE BREAST.....	2N01 CB33904-03	28,000
SWORT, ARLOWAYNE.....	ONCOLOGY NURSING PROGRAMS.....	1N01 CN55186-00	160,595
ORGANIZATION TOTAL	12 1,820,264		
<b>UNIVERSITY PARK</b>			
<b>PENNSYLVANIA STATE UNIVERSITY</b>		<b>ZIP CODE 16802</b>	
GAFFNEY, E V.....	CULTIVATION OF NORMAL AND MALIGNANT HUMAN MAMMARY CELLS.....	3N01 CB33898-04	90,000
HYMER, WESLEY C.....	STUDY OF CONTROL OF PROLACTIN SECRETION .....	3N01 CB23863-03	65,500
TODD, PAUL W.....	MARKERS FOR GYNECOLOGIC CYTOPATHOLOGY SPECIMENS.....	2N01 CB43984-01	216,841
ORGANIZATION TOTAL	3 372,341		
<b>WARRINGTON</b>			
<b>POLYSCIENCES, INC.</b>		<b>ZIP CODE 18976</b>	
HALPERN, DAVID B.....	DETECTION OF ABNORMAL CERVICAL CELLS.....	2N01 CB43943-01	139,896
HALPERN, DAVID B.....	ELECTROPHORETIC SEPARATION OF PROTEINS.....	2N01 CP23245-03	79,520
HALPERN, DAVID B.....	FLUORIDE RELEASING SYSTEM FOR PROLONGED ORAL USE.....	1N01 DE52447-00	57,848
HALPERN, DAVID B.....	DEVICES AND MATERIALS FROM PURIFIED NEUTRAL HYDROGELS.....	2N01 HB61124-17	84,628
ORGANIZATION TOTAL	4 361,892		
STATE TOTAL	122 15,437,780		
<b>RHODE ISLAND</b>			
<b>KINGSTON</b>			
<b>UNIVERSITY OF RHODE ISLAND</b>		<b>ZIP CODE 02881</b>	
ABUSHANAB, ELIE.....	SYNTHESIS OF POTENTIAL NEW ANTIFERTILITY AGENTS.....	3N01 HD22709-08	350
GOODMAN, LEON.....	SYNTHESIS OF NITROGEN HETEROCYCLIC COMPOUNDS.....	3N01 CM12312-05	1,430
GOODMAN, LEON.....	SYNTHESIS OF NITROGEN HETEROCYCLIC ANTINEOPLASTICS.....	5N01 CM43778-01	43,817
ORGANIZATION TOTAL	3 45,597		
<b>PAWTUCKET</b>			
<b>MEMORIAL HOSPITAL</b>		<b>ZIP CODE 02860</b>	
BALDINI, MARIO G.....	IMPROVEMENT OF METHODS TO PRESERVE PLATELETS.....	2N01 HB12252-04	58,158
MASON, R G.....	ANTITHROMBOGENIC SURFACES: PLATELET-INTERFACE REACTIONS.....	1N01 AM52215-00	67,520
ORGANIZATION TOTAL	2 125,678		
<b>PROVIDENCE</b>			
<b>BROWN UNIVERSITY</b>		<b>ZIP CODE 02912</b>	
ZIMMER, BASIL G.....	ANALYZE THE IMPACT OF CHILD-BEARING AND SPACING PATTERNS.....	1N01 HD52835-00	138,073
ORGANIZATION TOTAL	1 138,073		
<b>RHODE ISLAND DEPARTMENT OF HEALTH</b>		<b>ZIP CODE 02908</b>	
SIMEONE, FIORINDO A.....	PLANNING FOR A COMMUNITY CANCER CONTROL PROGRAM.....	1N01 CN55271-00	110,724
ORGANIZATION TOTAL	1 110,724		
STATE TOTAL	7 420,072		

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>SOUTH CAROLINA</b>			
<b>CHARLESTON</b>			
<b>MEDICAL UNIVERSITY OF SOUTH CAROLINA      ZIP CODE 29401</b>			
ALLEN, ROBERT C.....	CHARACTERIZATION OF MOUSE ESTERASES.....	1N01 ES52152-00	43,221
O'BRIEN, PAUL H.....	COLLECTION OF BREAST CANCER SPECIMENS.....	2N01 CB23867-05	79,000
ORGANIZATION TOTAL	2      122,221		
<b>COLUMBIA</b>			
<b>SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL      ZIP CODE 29201</b>			
TO BE APPOINTED.....	EXPANSION OF SOUTH CAROLINA'S CERVICAL CANCER PROGRAM.....	5N01 CN45084-02	112,189
ORGANIZATION TOTAL	1      112,189		
<b>UNIVERSITY OF SOUTH CAROLINA      ZIP CODE 29208</b>			
CARGILL, ROBERT L.....	SYNTHESIS OF NOVEL STEROIDS FOR FERTILITY CONTROL.....	2N01 HD32734-03	45,460
GIESE, WARREN K.....	STUDY OF CORONARY HEART DISEASE.....	2N01 HV42932-01	469,988
ORGANIZATION TOTAL	2      515,448		
STATE TOTAL	5      749,858		
<b>SOUTH DAKOTA</b>			
<b>PIERRE</b>			
<b>SOUTH DAKOTA STATE DEPARTMENT OF HEALTH      ZIP CODE 57501</b>			
HAYES, ROBERT H.....	SOUTH DAKOTA CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55164-00	93,272
ORGANIZATION TOTAL	1      93,272		
STATE TOTAL	1      93,272		
<b>TENNESSEE</b>			
<b>KNOXVILLE</b>			
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE AT KNOXVILLE      ZIP CODE 37916</b>			
COGIN, JOSEPH H.....	RELATION OF EMBRYONIC ANTIGEN TO TUMOR ANTIGENS.....	3N01 CP43325-01	265,240
ORGANIZATION TOTAL	1      265,240		
<b>MEMPHIS</b>			
<b>ST. JUDE CHILDREN'S RESEARCH HOSPITAL      ZIP CODE 38101</b>			
WEBSTER, ROBERT G.....	PREPARATION OF ANTISERA TO ISOLATED H AND N SUBUNITS.....	2N01 AI32516-02	53,978
WEBSTER, ROBERT G.....	SUPPLY OF POLYPEPTIDE ANTIGENS OF INFLUENZA VIRUS.....	3N01 AI42510-02	6,000
WEBSTER, ROBERT G.....	SURVEILLANCE AND ECOLOGY OF ANIMAL INFLUENZA.....	1N01 AI52524-00	283,324
ORGANIZATION TOTAL	3      343,302		
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES      ZIP CODE 38163</b>			
AUTIAN, JOHN.....	STUDY OF TOXICITY OF FLUIDS FLOWING THROUGH DIALYZERS.....	2N01 AM42219-02	34,734
AVIS, KENNETH E.....	QUALITY ASSURANCE ANALYSES OF CHEMICALS AND DRUGS.....	2N01 CM02084-08	80,000
DAVIES, DEAN F.....	IMPACT OF MULTISITE SCREENING ON CANCER MORTALITY.....	1N01 CB53864-00	104,110
KORONES, SHELDON B.....	SERUM IGM ANTIBODIES FROM HIGH-RISK INFANTS—EVALUATION.....	3N01 NS32302-04	25,551

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>TENNESSEE—Continued</b>			
KORONES, SHELDON B.....	PREGNANCY FACTORS.....	5N01 NS80017-13	47,337
MURRELL, LEONARD R.....	ORGAN CULTURE OF RODENT PANCREAS.....	2N01 CP33369-01	76,094
ROBERTSON, JAMES T.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM57021-00	92,484
ORGANIZATION TOTAL	7 460,310		
<b>NASHVILLE</b>			
<b>VANDERBILT UNIVERSITY ZIP CODE 37240</b>			
BURKO, HENRY.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	1N01 CN55099-00	185,000
CHIU, HEN-FU.....	ANTIBODIES TO HUMAN ORGAN OR TISSUE ASSOCIATED ANTIGENS.....	1N01 CB53896-00	86,282
GINN, H EARL.....	NEUROBEHAVIORAL AND CLINICAL RESPONSES TO HEMODIALYSIS.....	2N01 AM22211-05	114,480
IZARD, CARROLL E.....	EMOTIONS AND FEELINGS IN SEX-RELATED BEHAVIORS.....	1N01 HD52820-00	33,437
KARZON, DAVID T.....	RESPIRATORY VACCINES IN CHILDREN AND INFANTS.....	3N01 AI22507-05	233,816
PAGE, DAVID L.....	STUDY OF FIBROCYSTIC DISEASE AND MAMMARY CARCINOMA.....	2N01 CB43871-01	57,300
SELL, SARAH H.....	ANTIBODY RESPONSE TO PNEUMOCOCCAL POLYSACCHARIDES.....	1N01 AI52538-00	140,722
ORGANIZATION TOTAL	7 851,037		
STATE TOTAL	18 1,919,889		
<b>TEXAS</b>			
<b>AUSTIN</b>			
<b>TEXAS STATE DEPARTMENT OF HEALTH ZIP CODE 78756</b>			
YERWOOD, C R.....	STATE CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45078-02	333,624
ORGANIZATION TOTAL	1 333,624		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN ZIP CODE 78712</b>			
GIBSON, DAVID T.....	SYNTHESIS OF CARCINOGENIC POLYCYCLIC HYDROCARBONS.....	2N01 CP33384-02	44,540
POPOVICH, ROBERT P.....	STUDY OF PHYSIOLOGICAL TRANSPORT PARAMETERS.....	3N01 AM32205-02	970
PRICE, DANIEL O.....	STUDY OF POPULATION.....	3N01 HD32708-03	5,071
ORGANIZATION TOTAL	3 50,581		
<b>DALLAS</b>			
<b>TEC FILMS ZIP CODE 75211</b>			
TO BE APPOINTED.....	MEDICAL ILLUSTRATION AND ANIMATION ART AND ILLUSTRATION.....	4N01 LM54735-00	8,184
ORGANIZATION TOTAL	1 8,184		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS ZIP CODE 75235</b>			
BEER, ALAN E.....	PREGNANCY-IMMUNOREGULATION OF HYPERSENSITIVITY.....	2N01 AI42531-01	86,957
ESTABROOK, RONALD W.....	STUDY OF POLYCYCLIC HYDROCARBON METABOLISM.....	2N01 CP33362-01	35,069
HELM, PHALA A.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES.....	3N01 CN45133-02	133,309
JOHNSTON, KENNETH H.....	STEREOTYPING SYSTEM FOR NEISSERIA GONORRHOEAE.....	1N01 AI52534-00	40,485
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM.....	1N01 LM54705-00	253,817
NOT APPLICABLE.....	SERVICES IN MEDICAL ILLUSTRATION.....	1N01 LM54736-00	19,200
ROSENBERG, ROGER N.....	BIOLOGICAL SYSTEMS FOR EVALUATION OF ANTITUMOR AGENTS.....	1N01 CM53767-00	59,975
STASTNY, PETER.....	EVALUATION OF HISTOCOMPATIBILITY-MATCHING.....	2N01 AI22531-04	37,801
TEMPLETON, GORDON H.....	EFFECT OF AGE ON PROPERTIES OF THE LEFT VENTRICLE.....	2N01 HD42813-03	30,427
WATERMAN, MICHAEL R.....	STUDIES IN SICKLE CELL DISEASE.....	2N01 HB22954-04	57,169
ORGANIZATION TOTAL	10 754,209		



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>TEXAS—Continued</b>			
<b>DENTON</b>			
<b>NORTH TEXAS STATE UNIVERSITY</b>	<b>ZIP CODE 76203</b>		
CANTRELL, ELROY .....	STANDARDIZATION OF ARYL HYDROXYLASE ASSAY .....	1N01 CP55626-00	47,551
ORGANIZATION TOTAL	1 47,551		
<b>GALVESTON</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON</b>	<b>ZIP CODE 77550</b>		
ABELL, CREED W. ....	GROWTH ALTERATION OF MAMMARY NEOPLASTIC CELLS .....	2N01 CB43906-01	98,200
BEATHARD, GERALD A. ....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION .....	1N01 AI52504-00	14,512
BOWMAN, BARBARA H. ....	ISOLATION OF NEW PRODUCTS FROM PLASMA FRACTIONATION .....	5N01 HB42948-02	93,000
MC GANITY, WILLIAM J. ....	STUDY OF SEX STEROIDS AND NUTRITIONAL STATUS .....	2N01 HD22728-04	63,130
PETERSON, JOHNNY W. ....	STUDY OF CHOLERA TOXOIDS IN HUMAN VOLUNTEERS .....	2N01 AI02101-06	71,930
WILLIAMS, BETTY J. ....	CHORINERGIC STIMULI DURING MYOCARDIAL ISCHEMIA .....	1N01 HV52996-00	92,327
ORGANIZATION TOTAL	6 433,099		
<b>HOUSTON</b>			
<b>BAYLOR COLLEGE OF MEDICINE</b>	<b>ZIP CODE 77025</b>		
BUTEL, JANET S. ....	NUCLEIC ACID PREPARATION EFFECTS ON MAMMARY CARCINOMAS .....	1N01 CB53904-00	90,000
CASKEY, C T. ....	STUDY NONSENSE SUPPRESSOR GENES IN MAMMALIAN (3T3) CELLS .....	9N01 CP53527-00	49,235
COUCH, ROBERT B. ....	EVALUATION OF METHODS FOR CONTROL OF RESPIRATORY DISEASE .....	5N01 AI32506-05	254,100
COUCH, ROBERT B. ....	ESTABLISHMENT OF AN INFLUENZA RESEARCH CENTER .....	5N01 AI42528-03	582,830
GARBER, ALAN J. ....	ABNORM. OF CARBOHYDRATE METABOLISM IN CHRONIC UREMIA .....	2N01 AM42215-02	117,877
GREENBERG, STEPHEN B. ....	TRANSPORT OF INTERFERON ACROSS THE MUCOUS MEMBRANE .....	3N01 AI42530-01	7,230
HAZLEWOOD, CARLTON F. ....	NMR STUDIES IN NEOPLASTIC & NON-NEOPLASTIC TISSUES .....	5N01 CB43978-01	80,536
HORNING, EVAN C. ....	DETERMINATION OF STEROID SULFATE CONTENT IN BLOOD .....	2N01 CB43897-01	110,000
KAUFMAN, RAYMOND H. ....	STUDY OF INCIDENCE AND NATURAL HISTORY OF GENITAL TRACT .....	3N01 CN45092-04	14,500
KOHLER, PETER O. ....	STUDY OF ROLE OF STROMA IN GROWTH .....	2N01 CB43907-01	87,000
MEDINA, DANIEL .....	HYPERPLASTIC ALVEOLAR NODULE SYSTEM—ANTITUMOR SCREEN .....	1N01 CM57018-00	33,000
MELNICK, JOSEPH L. ....	STUDY THE POSSIBLE VIRAL ETIOLOGY OF HUMAN MALIGNANCIES .....	9N01 CP53526-00	548,000
MUMFORD, DAVID M. ....	STUDY OF IMMUNE ALTERATIONS ASSOCIATED WITH VASECTOMY .....	2N01 HD32759-04	79,246
RICH, ROBERT R. ....	SUPPRESSION OF CELL-MEDIATED IMMUNE RESPONSES .....	2N01 AI42529-02	89,300
SCHWARTZ, ARNOLD .....	STUDIES IN ISCHEMIC MYOCARDIUM AND INFARCT SIZE .....	1N01 HV52998-00	350,200
SOCHER, SUSAN H. ....	REGULATION OF GENE EXPRESSION IN MOUSE MAMMARY CANCER .....	3N01 CP43385-01	133,000
SUKI, WADI N. ....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION .....	1N01 AI52506-00	37,620
THOMPSON, H K, JR .....	DEVELOP AND EVALUATE CLINICAL RESEARCH DATA SYSTEM .....	1N01 RR52118-00	65,583
ORGANIZATION TOTAL	18 2,729,257		
<b>ST. JOSEPH HOSPITAL</b>	<b>ZIP CODE 77002</b>		
MOORE, D L. ....	BREAST CANCER DETECTION DEMONSTRATION PROJECT .....	1N01 CN55100-00	185,000
ORGANIZATION TOTAL	1 185,000		
<b>STEHLIN FOUNDATION FOR CANCER RESEARCH</b>	<b>ZIP CODE 77025</b>		
GIOVANELLA, BEPPINO C. ....	STUDY OF BREAST-CANCER TRANSPLANTS IN ATHYMIC MICE .....	3N01 CB33856-03	150,500
ORGANIZATION TOTAL	1 150,500		
<b>TEXAS HEART INSTITUTE</b>	<b>ZIP CODE 77025</b>		
NORMAN, JOHN C. ....	EVALUATION OF MODEL VII LEFT VENTRICULAR ASSIST DEVICE .....	1N01 HV53006-00	62,000
ORGANIZATION TOTAL	1 62,000		
<b>TEXAS INBRED MICE COMPANY</b>	<b>ZIP CODE 77002</b>		
BAUGHMAN, LAWRENCE C. ....	SUPPLY OF INBRED AND HYBRID RODENTS .....	3N01 CM43711-02	55,446
BAUGHMAN, LAWRENCE C. ....	OPERATION OF A GERM-FREE RODENT COLONY .....	1N01 CM53816-00	468,053

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>TEXAS—Continued</b>			
ORGANIZATION TOTAL	2	523,499	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON ZIP CODE 77025</b>			
DRIEZEN, SAMUEL	EFFECT OF XEROSTOMIA ON HUMAN ORAL MICROFLORA	2N01 DE12377-07	93,704
FRIEDMAN, LAWRENCE A.	COMMUNITY CARIES PREVENTION DEMONSTRATION PROJECTS	1N01 DE52471-00	98,448
LEVY, BARNET M.	PERIODONTAL DISEASE IN PATIENTS WITH IMMUNE DISORDERS	1N01 DE52454-00	129,201
SANBORN, BARBARA M.	STUDY OF EXISTENCE OF SPECIFIC CYTOPLASMIC RECEPTORS	2N01 HD32779-04	47,288
ORGANIZATION TOTAL	4	368,641	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER ZIP CODE 77025</b>			
ANDERSON, DAVID E.	ARYL HYDROCARBON & 16-HYDROXYLASE IN BREAST CANCER	3N01 CB43939-01	26,275
ANDERSON, DAVID E.	FAMILIAL GENETIC POLYMORPHISMS & BREAST CANCER RISK	2N01 CB44004-01	33,700
BLUMENSCHN, GEORGE R.	TISSUE CULTURE LINES FROM BREAST CANCER	2N01 CB23869-02	120,000
BODEY, GERALD P.	QUANTITATIVE EVALUATION OF PROTECTED ENVIRONMENT	1N01 CM53832-00	550,000
BOWEN, JAMES M.	IMMUNOLOGICAL STUDIES ON HUMAN BREAST CARCINOMA	3N01 CP43370-01	141,260
CLARK, R. LEE	COMPREHENSIVE CANCER CENTERS COMMUNICATIONS NETWORK	1N01 CM55244-00	263,793
DODD, GERALD D.	XEROMAMMOGRAPHY VERSUS FILM MAMMOGRAPHY	2N01 CB43993-01	55,900
DODD, GERALD D.	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER	1N01 CM55250-00	86,507
DRANE, JOE B.	TRAINING PROGRAMS FOR MAXILLOFACIAL PROSTHODONTISTS	5N01 CN45114-01	118,023
GALLAGER, H. S.	MORPHOLOGICAL & EPIDEMIOLOGICAL FACTORS OF BREAST CANCER	1N01 CB53854-00	38,750
GOTTLIEB, JEFFREY A.	PHASE I STUDIES OF NEW ANTICANCER AGENTS	2N01 CM43801-03	238,102
GOTTLIEB, JEFFREY A.	STUDIES OF PATIENTS WITH SOLID DISSEMINATED TUMORS	1N01 CM57042-00	402,027
GUTTERMAN, JORDAN U.	STUDY OF CANCER IMMUNOTHERAPY	2N01 CB33888-01	385,000
HARVIN, JANICE M.	SCREENING AND PROCESSING OF BIOMEDICAL LITERATURE	1N01 C055219-00	83,846
HEALEY, JOHN E. JR.	DEVELOPMENT OF CANCER TRAINING PROGRAMS FOR THERAPISTS	5N01 CN45051-02	162,625
HILKEMEYER, RENILDA	ENTEROSTOMAL THERAPY EDUCATION PROGRAM	5N01 CN45111-02	56,318
HNILICA, LUBOMIR S.	STUDY OF NONHISTONE CHROMOSOMAL PROTEINS	2N01 CP43270-02	93,710
HURLBERT, ROBERT B.	ANTITUMOR DRUGS; EFFECTS ON POLYNUCLEOTIDE METABOLISM	5N01 CM43786-01	81,586
LOO, TI LI	PHARMACOLOGIC STUDIES OF ANTITUMOR AGENTS	1N01 CM53773-00	458,985
LOO, TI LI	STUDIES OF ANTITUMOR AGENTS	3N01 CM61156-14	23,000
MOUNTAIN, CLIFTON F.	THERAPY OF PATIENTS WITH BRONCHOGENIC CARCINOMA	3N01 CM33737-05	376,836
SHALEK, ROBERT J.	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS	3N01 CN45150-02	37,086
SHAW, CHARLES R.	MICROSOMAL ENZYME STUDIES	1N01 CP55604-00	95,400
SINKOVICS, JOSEPH G.	STUDY OF IMMUNITY TO SARCOMA-RELATED ANTIGENS	3N01 CP33292-03	79,920
SMITH, JULIAN P.	STUDY OF CHEMOTHERAPY OF OVARIAN CARCINOMA	3N01 CM33710-03	232,133
WARD, DARRELL E.	PRODUCTION OF OVINE LH	3N01 HD92221-09	2,829
ORGANIZATION TOTAL	26	4,243,611	
<b>SAN ANTONIO</b>			
<b>SANTA ROSA MEDICAL CENTER ZIP CODE 78285</b>			
COOPER, ELMER E.	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY	1N01 HV52921-00	163,414
ORGANIZATION TOTAL	1	163,414	
<b>SOUTHWEST FOUNDATION FOR RESEARCH AND EDUCATION ZIP CODE 78284</b>			
GOLDZIEHER, JOSEPH W.	COMPARATIVE PHARMACOLOGY OF THE ETHNYL ESTROGENS	2N01 HD22723-05	83,155
HERBERLING, R. L.	STUDY OF LATENT VIRUS INFECTION	2N01 CP43214-01	279,320
KALTER, SEYMOUR S.	SUPPORT FOR CHIMPANZEE BREEDING COLONY	3N01 CP33340-02	52,925
KRAEMER, D. C.	PRIMATE TESTING FACILITY	1N01 HD52810-00	120,279
MC CULLOUGH, BRUCE	ANIMAL MODEL OF PULMONARY FIBROSIS	1N01 HR53012-00	131,535
MC GILL, HENRY C.	MODELS OF ATHEROSCLEROSIS	1N01 HV53030-00	701,396
RAO, PEMMARAJU N.	SYNTHETIC CHEMICAL FACILITY	1N01 HD52857-00	114,584
SHAIN, SYDNEY A.	STUDY OF HORMONAL FACTORS OF PROSTATE	2N01 CP33379-02	163,775
ORGANIZATION TOTAL	8	1,646,969	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO ZIP CODE 78284</b>			
DOUGHERTY, JOSEPH C.	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION	1N01 AI52505-00	20,507

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>TEXAS—Continued</b>			
MC GUIRE, WILLIAM L.....	ENDOCRINE-INDUCED BREAST CANCER REGRESSION.....	2N01 CB23862-04	135,000
THOR, DANIEL E.....	DEVELOPMENT OF METHOD TO DETECT IMMUNOLOGIC REACTIVITY.....	3N01 CP43353-01	83,772
ORGANIZATION TOTAL	3 239,279		
STATE TOTAL	87 11,939,418		
<b>UTAH</b>			
<b>OGDEN</b>			
<b>OGDEN RESEARCH FOUNDATION ZIP CODE 84403</b>			
WILLIAMS, C BASIL.....	ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52918-00	128,766
ORGANIZATION TOTAL	1 128,766		
<b>OREM</b>			
<b>TRONAC, INC. ZIP CODE 84057</b>			
TO BE APPOINTED.....	MICROCALORIMETER SYSTEM.....	1N01 CL52137-00	58,873
ORGANIZATION TOTAL	1 58,873		
<b>PROVO</b>			
<b>BRIGHAM YOUNG UNIVERSITY ZIP CODE 84602</b>			
MANGUM, JOHN H.....	ANTITUMOR DRUGS—EFFECTS ON FOLATE METABOLISM.....	5N01 CM43790-02	75,296
ORGANIZATION TOTAL	1 75,296		
<b>SALT LAKE CITY</b>			
<b>ASSOCIATION OF PROFESSORS OF GYNECOLOGY AND OBSTETRICS ZIP CODE 84112</b>			
NOT APPLICABLE.....	AUDIOVISUAL AIDS IN GYNECOLOGY.....	1N01 LM54725-00	8,755
ORGANIZATION TOTAL	1 8,755		
<b>SALT LAKE CLINIC RESEARCH FOUNDATION ZIP CODE 84102</b>			
BARKER, ALLAN H.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52923-00	132,576
ORGANIZATION TOTAL	1 132,576		
<b>UTAH STATE DEPARTMENT OF SOCIAL SERVICES ZIP CODE 84114</b>			
COLE, VIRGINIA L.....	PLANNING FOR A CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55206-00	44,056
ORGANIZATION TOTAL	1 44,056		
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH ZIP CODE 84112</b>			
CASTLE, CHARLES H.....	STUDY OF HYPERTENSION IN THERAPY.....	5N01 HV12435-10	146,274
COUVILLON, L A.....	MEASUREMENT OF INTRAOCULAR PRESSURE.....	2N01 EY32115-07	41,457
DE WITT, CHARLES W.....	EVALUATION OF HISTOCOMPATIBILITY-MATCHING.....	2N01 AI42507-01	19,882
EICHWALD, ERNST J.....	DETERMINING THE EFFECT OF CHRONIC IMMUNOSUPPRESSION.....	2N01 CP45600-02	199,597
ELTRINGHAM, JAMES R.....	EFFECTS OF RADIATION & ADRIAMYCIN ON CARDIOMYOPATHIES.....	1N01 CM53827-00	71,698
GLASGOW, LOWELL A.....	STUDY OF ANTIVIRAL SUBSTANCES.....	2N01 AI42524-01	98,875
GROVER, THOMAS P.....	EVALUATE OPERATIONS OF A NCL CYTOSCREENER.....	1N01 CB53867-00	111,521
JANIS, BURTON.....	STUDY OF INTERFERON IN PREVENTION OF RABIES.....	2N01 AI42523-01	69,000
KOLFF, WILLEM J.....	PERITONEAL DIALYSIS.....	1N01 AM52214-00	25,000
KOLFF, WILLEM J.....	DEVELOPMENT OF ARTIFICIAL HEART WITH INTRINSIC CONTROL.....	2N01 HV42905-02	141,946
LYON, JOSEPH L.....	AN EPIDEMIOLOGICAL INVESTIGATION OF CANCER IN UTAH.....	3N01 CP43382-01	290,448
MODDY, FRANK G.....	PHYSIOLOGICAL REFLUX IN PANCREATIC DUCT.....	1N01 CP55709-00	91,704

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>UTAH—Continued</b>			
MORRIS, ALAN H.....	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY.....	5N01 HR42921-01	284,000
OVERALL, JAMES C, JR.....	RECURRENT HERPES VIRUS HOMINIS INFECTION.....	1N01 AI52532-00	104,489
RIEKHOF, F TEMPLE.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32122-03	78,011
SANDBERG, LAWRENCE B.....	SEPARATION AND CHARACTERIZATION OF LUNG ELASTIN.....	2N01 HR42942-01	58,045
SWINYARD, EWART A.....	TOXICOLOGY OF PLASTIC DEVICES HAVING CONTACT WITH BLOOD.....	2N01 HB32908-04	38,917
SWINYARD, EWART A.....	PHARMACOLOGICAL EVALUATION OF ANTI-CONVULSANTS.....	1N01 NS52302-00	192,989
TOWNSEND, LEROY B.....	SYNTHESIS OF NUCLEOSIDES FOR CANCER CHEMOTHERAPY.....	5N01 CM43806-01	214,183
WARD, BRUCE D.....	TESTING AND EVALUATION OF BRAMSON MEMBRANE LUNG.....	1N01 HR52943-00	70,335
ORGANIZATION TOTAL	20 2,348,371		
STATE TOTAL	26 2,796,693		
<b>VERMONT</b>			
<b>BURLINGTON</b>			
<b>UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE ZIP CODE 05401</b>			
ABSHER, P MARLENE.....	STUDY OF AGING OF HUMAN DIPLOID FIBROBLASTS.....	2N01 HD22755-05	47,744
BORAKER, DAVID K.....	DEVELOPMENT OF A PEDIGREED STRAIN OF OCTODON DEGUS.....	1N01 EY52105-00	53,298
CRAIGHHEAD, JOHN E.....	STUDY OF CARCINOGENESIS IN ORGAN CULTURE.....	2N01 CP33360-01	114,215
KUSSEROW, BERT K.....	EVALUATE MATERIALS FOR THROMBOEMBOLIC AND BLOOD TRAUMA.....	9N01 HB52939-00	61,240
LUCEY, JEROLD F.....	PERINATAL CARE OF THE HIGH-RISK INFANT AND MOTHER.....	1N01 HR52961-00	181,130
PHILLIPS, CHARLES A.....	CERTIFICATION OF RHINOVIRUS REFERENCE REAGENTS.....	3N01 AI71188-10	9,880
WEED, LAWRENCE L.....	COMPUTERIZED PROBLEM-ORIENTED MEDICAL INFORMATION SYSTEM.....	5N01 CM33716-02	33,208
ORGANIZATION TOTAL	7 500,715		
<b>VERMONT AGENCY OF HUMAN SERVICES—DEPARTMENT OF HEALTH ZIP CODE 05401</b>			
TO BE APPOINTED.....	PLAN FOR A STATE-WIDE CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55147-00	39,603
ORGANIZATION TOTAL	1 39,603		
STATE TOTAL	8 540,318		
<b>VIRGINIA</b>			
<b>ALEXANDRIA</b>			
<b>DATATEL, INC. ZIP CODE 22305</b>			
NOT APPLICABLE.....	COLLABORATIVE PERINATAL PROJECT DATA COLLECTION FORMS.....	1N01 NS52303-00	7,487
NOT APPLICABLE.....	KEYPUNCH AND VERIFY SERVICES.....	1N01 NS52304-00	4,000
ORGANIZATION TOTAL	2 11,487		
<b>HUMAN RESOURCES RESEARCH ORGANIZATION ZIP CODE 22314</b>			
NOT APPLICABLE.....	EVALUATE COMPUTER ASSISTED INSTRUCTION.....	4N01 LM54751-00	37,912
WILSON, THURLOW.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	1N01 CN55089-00	168,923
ORGANIZATION TOTAL	2 206,835		
<b>INFORMATION RESEARCH AND TECHNOLOGY ZIP CODE 22304</b>			
NOT APPLICABLE.....	MAINTAIN AND UPDATE TOXICOLOGY DATA BANK.....	1N01 LM54714-00	111,112
ORGANIZATION TOTAL	1 111,112		
<b>SUSQUEHANNA CORPORATION-ATLANTIC RESEARCH CORPORATION ZIP CODE 22314</b>			
TO BE APPOINTED.....	CTS BIOMEDICAL COMMUNICATIONS EXPERIMENT.....	1N01 LM54716-00	89,383
ORGANIZATION TOTAL	1 89,383		



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>VIRGINIA—Continued</b>			
<b>VALUE ENGINEERING COMPANY</b>	<b>ZIP CODE 22303</b>		
DEAN, CHARLES.....	DRUG DISTRIBUTION AND INVENTORY SYSTEM.....	1N01 CM53821-00	83,027
SANFACON, THOMAS J.....	BIOLOGICAL DATA-PROCESSING SYSTEM.....	2N01 CM33706-07	829,980
ORGANIZATION TOTAL	2	913,007	
<b>ARLINGTON</b>			
<b>ARIES CORPORATION</b>	<b>ZIP CODE 22209</b>		
HIRSCHY, ROGER E.....	INFORMAL SCIENTIFIC COMMUNICATIONS AMONG INVESTIGATORS.....	3N01 A180654-14	21,283
HIRSCHY, ROGER E.....	SUPPORT FOR NATIONAL CANCER PROGRAM BULLETIN.....	9N01 C055202-00	49,380
ORGANIZATION TOTAL	2	70,663	
<b>CONTROL SYSTEMS RESEARCH, INC.</b>	<b>ZIP CODE 22209</b>		
OAKES, WILLIAM.....	SUPPORT FOR NATIONAL HYPERTENSION PROGRAM.....	3N01 H032935-04	548,708
ORGANIZATION TOTAL	1	548,708	
<b>JRB ASSOCIATES</b>	<b>ZIP CODE 22209</b>		
FRICKER, CHARLES.....	SERVICES FOR THE NATIONAL CANCER PROGRAM.....	3N01 C035405-10	298,494
ORGANIZATION TOTAL	1	298,494	
<b>KAPPA SYSTEMS</b>	<b>ZIP CODE 22209</b>		
ALDRIDGE, JANIS L.....	SUPPORT SERVICES—CANCER BIOLOGY AND DIAGNOSIS.....	1N01 CB53866-00	293,500
RASMANN, JOHN F.....	NATIONAL HIGH BLOOD PRESSURE EDUCATION PROGRAM.....	1N01 HV52942-00	1,425,304
ORGANIZATION TOTAL	2	1,718,804	
<b>MACMILLAN, INC.—ASSOCIATION STERLING FILMS</b>	<b>ZIP CODE 22209</b>		
NOT APPLICABLE.....	DISTRIBUTION AND BOOKING SERVICES—NMAC, NLM.....	1N01 LM54718-00	76,500
ORGANIZATION TOTAL	1	76,500	
<b>BLACKSBURG</b>			
<b>VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY</b>	<b>ZIP CODE 24061</b>		
MOORE, WALTER E.....	COMPARATIVE STUDIES OF FECAL FLORA.....	2N01 CP33334-05	122,680
WILKINS, TRACY.....	RELATION OF FECAL NEUTRAL STEROLS TO LARGE BOWEL CANCER.....	1N01 CP55685-00	112,900
ORGANIZATION TOTAL	2	235,580	
<b>CHARLOTTESVILLE</b>			
<b>UNIVERSITY OF VIRGINIA</b>	<b>ZIP CODE 22903</b>		
DREIFUSS, F E.....	A COMPREHENSIVE EPILEPSY PROGRAM.....	1N01 NS52329-00	499,794
DREIFUSS, F E.....	STUDY PROPERTIES OF ETHOSUXIMIDE AND CLONAZEPAM.....	2N01 NS92196-05	138,262
GILLENWATER, JAY Y.....	EFFECTS OF VASECTOMY ON TESTES, EPIDIDYMS, AND VAS.....	3N01 HD22770-05	94,133
GWALTNEY, JACK M, JR.....	INFLUENZA VIRUS AND MYCOPLASMA PNEUMONIAE VACCINES.....	2N01 A122508-04	58,297
KATTWINKEL, JOHN.....	NEONATAL RESPIRATORY DISTRESS SYNDROME STUDIES.....	1N01 HR52962-00	156,202
KUPCHAN, S MORRIS.....	EXTRACTION OF TUMOR INHIBITORS.....	2N01 CM12099-09	180,000
MANDELL, GERALD L.....	IN VITRO TEST FOR SARCOIDOSIS.....	2N01 HR42958-01	29,905
PARSONS, L CLAIRE.....	PRODUCTION OF NURSING EDUCATIONAL MATERIALS.....	5N01 LM34131-03	24,500
SINGER, S FRED.....	STUDY OF OPTIMUM POPULATION LEVELS.....	2N01 HD22052-08	164,017
WENZEL, RICHARD P.....	TESTING OF M. PNEUMONIAE VACCINE.....	2N01 A142512-02	44,013
ORGANIZATION TOTAL	10	1,389,123	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>VIRGINIA—Continued</b>			
<b>FAIRFAX</b>			
<b>NORTHERN VIRGINIA PATHOLOGY LABORATORIES      ZIP CODE 22030</b>			
COOK, C BARRIE .....	COLLECTION OF FRESH HUMAN TISSUE SPECIMENS .....	1N01 CP53567-00	20,000
ORGANIZATION TOTAL	1      20,000		
<b>FALLS CHURCH</b>			
<b>DATA GENERAL CORPORATION      ZIP CODE 22043</b>			
NOT APPLICABLE .....	SUPPLY AND INSTALL COMPUTER EQUIPMENT .....	1N01 LM54740-00	49,740
ORGANIZATION TOTAL	1      49,740		
<b>HERNDON</b>			
<b>EXPERIMENTAL PATHOLOGY LABORATORIES      ZIP CODE 22070</b>			
BUSEY, WILLIAM .....	PATHOLOGY SUPPORT SERVICES .....	3N01 CP43300-01	358,566
ORGANIZATION TOTAL	1      358,566		
<b>LURAY</b>			
<b>MAX FOLTZ FARMS      ZIP CODE 22835</b>			
FOLTZ, MAX .....	MAINTENANCE OF SHEEP BREEDING COLONY .....	9N01 HI52908-00	157,560
ORGANIZATION TOTAL	1      157,560		
<b>MC LEAN</b>			
<b>JRB ASSOCIATES      ZIP CODE 22101</b>			
HARRIS, ROBERT .....	SUPPORT SERVICES FOR NATIONAL HEART PLAN .....	3N01 HO42935-01	272,913
LEWIS, GREGORY W. ....	SUPPORT SERVICES FOR THE DIVISION OF CANCER CONTROL .....	1N01 CN55200-00	867,038
WEIS, JOHN .....	SYSTEMS PLANNING FOR THE NCI/OD NATIONAL CANCER PROGRAM .....	1N01 CO55426-00	2,315,822
ORGANIZATION TOTAL	3      3,455,773		
<b>TRW, INC.—TRW SYSTEMS GROUP      ZIP CODE 22101</b>			
FRANKEL, MICHAEL L. ....	NATIONAL CANCER PROGRAM MANAGEMENT INFORMATION SYSTEM .....	3N01 CO45408-05	184,657
FRANKEL, MICHAEL L. ....	NCPP PROJECT ANALYSIS MODEL .....	1N01 CO55171-00	122,825
MOEN, DONALD F. ....	CONTINUED DEVELOPMENT OF NCP PROJECT ANALYSIS MODEL .....	1N01 CO55318-00	139,445
STOCK, GERALD E. ....	DEVELOP NCP/NCI MANAGEMENT INFORMATION SYSTEM .....	1N01 CO55420-00	861,490
ORGANIZATION TOTAL	4      1,308,417		
<b>NORFOLK</b>			
<b>EASTERN VIRGINIA MEDICAL AUTHORITY—EASTERN VIRGINIA MEDICAL SCHOOL      ZIP CODE 23507</b>			
WRIGHT, GEORGE L, JR. ....	FRACTIONATION OF ANTIGENIC COMPONENTS OF T.B. CULTURE .....	2N01 A142503-02	37,025
WRIGHT, GEORGE L, JR. ....	PURIFICATION OF HUMAN TUMOR ASSOCIATED ANTIGENS .....	1N01 CB53955-00	77,753
ORGANIZATION TOTAL	2      114,778		
<b>RICHMOND</b>			
<b>VIRGINIA COMMONWEALTH UNIVERSITY      ZIP CODE 23284</b>			
FISHMAN, SHERWIN R. ....	COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECT .....	1N01 DE52468-00	72,682
KAPLAN, ALAN M. ....	STUDY OF MECHANISM OF ACTION OF IMMUNOPOTENTIATORS .....	2N01 CB43877-01	95,000
MAURER, HAROLD M. ....	STUDY OF PHOTOTHERAPY FOR NEONATAL HYPERBILIRUBINEMIA .....	3N01 HD42820-02	214,731

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>VIRGINIA—Continued</b>			
ODOR, D LOUISE.....	ULTRASTRUCTURAL STUDIES OF THE OVIDUCT.....	3N01 HD02142-06	2,253
RICHARDSON, DAVID W.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52914-00	149,689
ORGANIZATION TOTAL	5 534,355		
<b>VIRGINIA STATE DEPARTMENT OF HEALTH ZIP CODE 23219</b>			
JACKSON, ROBERT.....	VIRGINIA CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55165-00	316,542
ORGANIZATION TOTAL	1 316,542		
<b>SPRINGFIELD</b>			
<b>MELOY LABORATORIES ZIP CODE 22151</b>			
GILLETTE, RONALD W.....	BIOASSAY OF MAMMARY TUMOR VIRUSES.....	2N01 CP43263-01	409,784
GILLETTE, RONALD W.....	CELL BIOLOGY FACILITIES AND TUMOR IMMUNOLOGY.....	9N01 CP53508-00	356,355
INNERATIRY, TOM L.....	PREPARATION AND ANALYSIS OF LIPOPROTEINS.....	2N01 HI32926-03	123,320
KAPLAN, MICHAEL M.....	STUDY OF NEOPLASTIC TRANSFORMATION.....	2N01 CP43216-01	141,878
ROGERS, LAYTON.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	2N01 AI32504-05	215,440
ROGERS, LAYTON.....	HERPES VIRUS INDUCTION OF CERVICAL CANCER IN MONKEYS.....	3N01 NS22306-04	286,109
ROGERS, LAYTON.....	HOUSING AND CARE OF ANIMALS IN INFECTIOUS VIRUS STUDIES.....	3N01 NS42325-03	259,467
SLY, LEWIS D.....	TRANSPLACENTAL CARCINOGENESIS IN ERYTHROCEBUS PATAS.....	1N01 CP55613-00	146,331
SZAKAL, ANDRAS K.....	IDENTIFICATION OF LUNG CELLS.....	1N01 HR52951-00	282,929
VERNA, JOHN E.....	SPONTANEOUS AND VIRUS-INDUCED NEOPLASTIC TRANSFORMATION.....	3N01 CP43207-01	1,537,235
VERNA, JOHN E.....	MOLECULAR STUDY OF CARCINOMA OF THE BREAST.....	3N01 CP43223-03	702,585
VERNA, JOHN E.....	STUDY OF NEOPLASTIC TRANSFORMATION.....	3N01 CP43236-03	1,184,224
WOODS, ROY.....	IMMUNODIAGNOSIS OF HUMAN MALIGNANCY.....	3N01 CB33875-04	174,085
ORGANIZATION TOTAL	13 5,819,742		
<b>VIENNA</b>			
<b>DOT SYSTEMS ZIP CODE 22180</b>			
BROADWELL, JANET.....	ADMINISTRATIVE SERVICES FOR CONFERENCES.....	1N01 CM53774-00	177,677
ORGANIZATION TOTAL	1 177,677		
<b>ENVIRONMENTAL SCIENCES CORPORATION-HAZLETON LABORATORIES ZIP CODE 22180</b>			
BOWLES, CHARLES A.....	SHORT-TERM LEUKOCYTE CULTURES.....	2N01 CM23701-06	123,723
BOWLES, CHARLES A.....	STUDY OF BONE-MARROW TRANSPLANTATION AND IMMUNOLOGY.....	2N01 CM43702-02	390,000
BOYD, DALE D.....	MAINTAINING A BREEDING COLONY OF RHESUS MONKEYS.....	5N01 RR42180-01	364,019
COATE, WILLIAM B.....	RESPIRATORY IMPAIRMENT FROM EXPOSURE TO CIGARETTE SMOKE.....	5N01 CP43310-02	226,615
DALGARD, DANIEL W.....	SUPPORT FOR PRIMATE-BREEDING FACILITY.....	3N01 CM33708-04	453,031
DALGARD, DANIEL W.....	PRIMATE MODEL FOR DENTAL CARIES STUDIES.....	1N01 DE52458-00	145,040
GARGUS, JAMES L.....	IN VIVO SCREENING FOR ANTICANCER ACTIVITY.....	1N01 CM57007-00	538,288
GARGUS, JAMES L.....	BIOASSAY OF CIGARETTE-SMOKE CONDENSATES.....	3N01 CP43320-01	66,672
GOOD, ROBERT C.....	STUDY OF SKIN REACTIVITY OF MYCOBACTERIAL FRACTIONS.....	3N01 AI42522-01	19,783
GOOD, ROBERT C.....	DIAGNOSTIC MICROBIOLOGICAL SERVICES.....	3N01 CM33705-05	374,902
RUTTER, NEHRY A.....	BIOLOGICAL EFFECTS OF INGESTED ASBESTOS IN RATS.....	1N01 ES52158-00	749,865
VALERIO, DAVID A.....	STUDY OF ETIOLOGY OF CANCER.....	3N01 CP33212-06	726,667
VALERIO, DAVID A.....	MAINTAINING A BREEDING COLONY OF RHESUS MONKEYS.....	3N01 RS42182-01	128,950
ORGANIZATION TOTAL	13 4,307,555		
STATE TOTAL	73 22,290,401		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>WASHINGTON</b>			
<b>BELLEVUE</b>			
<b>SEATTLE-KING COUNTY HEALTH DEPARTMENT</b>		<b>ZIP CODE 98008</b>	
BERGNER, LAWRENCE.....	SEATTLE STUDY OF TRACE ELEMENTS FROM DRINKING WATER.....	1N01 HV52945-00	57,475
ORGANIZATION TOTAL	1	57,475	
<b>PULLMAN</b>			
<b>WASHINGTON STATE UNIVERSITY</b>		<b>ZIP CODE 99163</b>	
JOHNSON, MACK I.....	AGING MONKEY TISSUE AND ORGAN RESOURCE.....	1N01 HD52854-00	12,312
PADGETT, GEORGE A.....	STUDY OF SUDDEN DEATH IN INFANTS.....	3N01 HD32768-02	183,144
VAN HOOSIER, GERALD L, JR.....	PRIMARY GENETIC-PRODUCTION CENTER.....	3N01 CM22059-05	36,729
ORGANIZATION TOTAL	3	232,185	
<b>RICHLAND</b>			
<b>BATTELLE MEMORIAL INSTITUTE—PACIFIC NORTHWEST LABORATORIES</b>		<b>ZIP CODE 99352</b>	
DAGLE, G E.....	STUDY OF IMPLANTATION OF LUNG PELLETS.....	5N01 CP33374-03	25,707
MARSHALL, ROBERT P.....	DEVELOPMENT OF ARTIFICIAL DENTAL ANCHORS.....	3N01 DE12386-05	4,000
WILDUNG, RAYMOND E.....	FATE OF HEAVY METALS IN SOILS AND PLANTS.....	3N01 ES22043-08	83,058
ORGANIZATION TOTAL	3	112,765	
<b>HOLOSONICS, INC.</b>		<b>ZIP CODE 99352</b>	
SALISBURY, STEVEN.....	STUDY OF INSTRUMENTATION FOR MEDICAL DEVICES.....	3N01 HV32991-02	120,041
ORGANIZATION TOTAL	1	120,041	
<b>SEATTLE</b>			
<b>BATTELLE MEMORIAL INSTITUTE</b>		<b>ZIP CODE 98105</b>	
MARINI, MARGARET M.....	CONSEQUENCES OF CHILDBEARING AND CHILDSACING PATTERNS.....	1N01 HD52840-00	94,860
ORGANIZATION TOTAL	1	94,860	
<b>FRED HUTCHINSON CANCER RESEARCH CENTER</b>		<b>ZIP CODE 98104</b>	
HARTMAN, JOHN.....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM.....	1N01 CN55272-00	106,133
HELLSTROM, KARL E.....	TUMOR SPECIFIC TRANSPLANTATION ANTIGENS IN TUMORS.....	9N01 CP53570-00	57,980
HUTCHINSON, WILLIAM.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55233-00	250,673
SCRIBNER, JOHN D.....	METABOLISM OF CARCINOGENIC COMPOUNDS.....	1N01 CP55719-00	29,022
THOMAS, E DONNALL.....	EVALUATE TYPING TECHNIQUE ON BONE MARROW TRANSPLANTATION.....	9N01 AI52515-00	71,389
THOMPSON, DONOVAN J.....	SUPPORT FOR CANCER CENTER.....	2N01 CP33246-05	424,970
ORGANIZATION TOTAL	6	940,167	
<b>INSTITUTE OF APPLIED PHYSIOLOGY AND MEDICINE</b>		<b>ZIP CODE 98122</b>	
REID, JOHN M.....	DEVELOPMENT OF INVASIVE BLOOD FLOWMETERS.....	2N01 HV32994-03	79,123
ORGANIZATION TOTAL	1	79,123	
<b>PROVIDENCE MEDICAL CENTER</b>		<b>ZIP CODE 98122</b>	
MANSFIELD, PETER B.....	DEVELOPMENT OF INTIMAL LININGS.....	3N01 HV12060-10	173,234
ORGANIZATION TOTAL	1	173,234	
<b>SWEDISH HOSPITAL MEDICAL CENTER</b>		<b>ZIP CODE 98104</b>	
BLAGG, CHRISTOPHER R.....	COMPARATIVE STUDY OF HEMODIALYSIS & PERITONEAL DIALYSIS.....	2N01 AM32215-02	16,720
ORGANIZATION TOTAL	1	16,720	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>WASHINGTON—Continued</b>			
<b>UNIVERSITY OF WASHINGTON      ZIP CODE 98195</b>			
BAGDADE, JOHN D.....	STUDY OF HYPERLIPIDEMIA AND ATHEROGENESIS.....	2N01 AM32212-03	95,659
BIERMAN, EDWIN L.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV12157-06	1,996,000
BLANDAU, RICHARD J.....	STUDY OF FUNCTIONS OF THE OVIDUCT.....	3N01 HD32788-02	242,785
BUCHANAN, THOMAS M.....	ANTIBODY RESPONSE TO PNEUMONIA.....	1N01 AI52535-00	210,346
BURNELL, JAMES M.....	STUDY OF ACID-BASED CHEMISTRY IN HUMAN BONE.....	2N01 AM32208-04	70,000
CHRISTOPHER, GRAHAM T.....	CLINICAL RESEARCH DATA MANAGEMENT AND ANALYSIS SYSTEM.....	1N01 RR52117-00	69,058
CUTLER, RALPH E.....	PHARMACOKINETIC STUDIES IN CHRONIC RENAL DISEASE.....	2N01 AM22219-03	141,366
FISHER, LLOYD D.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	3N01 HV32973-07	945,761
HAKOMORI, SEN-ITIROH.....	BIOCHEMISTRY OF NORMAL & TUMOR CELL SURFACE ANTIGENS.....	2N01 CB43920-02	59,150
HELLSTROM, KARL E.....	IMMUNOTHERAPEUTICAL TRIALS WITH HUMAN TUMORS.....	2N01 CB23887-03	169,405
HOOVER, J JOANNE.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52922-00	116,433
KIEHN, EDWARD D.....	ORGANIZ. & DYNAMICS OF CELL SURFACE MEMBRANE COMPONENTS.....	2N01 CB43987-01	27,844
LEHMANN, JUSTUS F.....	SUPPORT FOR CANCER REHABILITATION FACILITY.....	5N01 CN45039-01	250,806
LOCKARD, JOAN S.....	STUDY EXPERIMENTAL ANTIEPILEPTIC DRUGS.....	5N01 NS12282-12	118,112
MC LEAN, EDWARD B.....	CLINICAL STUDY OF DIABETIC RETINOPATHY.....	5N01 EY42128-03	63,832
MINIFIE, FRED D.....	RELATION OF HEARING IMPAIRMENT & LANGUAGE DISABILITY.....	2N01 HD32793-02	219,486
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY SERVICES.....	3N01 LM34709-05	21,662
NOT APPLICABLE.....	DOCUMENTATION OF ATS-F HEALTH EXPERIMENTS.....	3N01 LM34733-04	72,105
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM SERVICES.....	4N01 LM54729-00	287,903
NUTE, PETER E.....	PREPARATION OF ANTISERA.....	3N01 ES42151-03	82,245
PAULSEN, C ALVIN.....	CONTRACEPTIVE DEVELOPMENT STUDIES FOR MALES.....	2N01 HD12234-11	123,143
REITAN, RALPH M.....	HUMAN RESPONSES TO HEAD INJURY.....	2N01 NS22326-03	30,724
SCHMER, GOTTFRIED.....	HEMODIALYSES OF ARTIFICIAL KIDNEYS.....	2N01 AM42201-02	59,690
SCRIBNER, BELDING H.....	STUDY OF PERIPHERAL NEUROPATHY.....	2N01 AM12119-08	144,786
SCRIBNER, BELDING H.....	RESEARCH ON ARTIFICIAL KIDNEY.....	2N01 AM60963-21	70,000
SILVERSTEIN, FRED E.....	ENDOSCOPIC CONTROL OF MASSIVE BLEEDING IN PATIENTS.....	1N01 AM52211-00	105,597
TORB, RAINER F.....	IMMUNOLOGICAL AND TRANSPLANTATION STUDIES.....	2N01 CP33236-03	93,335
TROUPIN, ALAN S.....	CARBAMAZEPINE IN THE TREATMENT OF EPILEPSY.....	2N01 NS02281-07	183,704
WOOTON, PETER B.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	3N01 CN45158-03	134,870
ORGANIZATION TOTAL	29      6,205,807		
<b>VIRGINIA MASON RESEARCH CENTER      ZIP CODE 98101</b>			
CARLISLE, THOMAS.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	9N01 CN55304-00	263,187
CARLISLE, THOMAS.....	RESERPINE AND BREAST CANCER.....	1N01 CP53544-00	3,653
ORGANIZATION TOTAL	2      266,840		
<b>WASHINGTON DEPARTMENT OF SOCIAL AND HEALTH SERVICES      ZIP CODE 98102</b>			
BEARE, JOHN A.....	CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55265-00	164,720
ORGANIZATION TOTAL	1      164,720		
STATE TOTAL	50      8,463,937		
<b>WEST VIRGINIA</b>			
<b>AUGUSTA</b>			
<b>MOUNT PLEASANT BOOKBINDER      ZIP CODE 26704</b>			
NOT APPLICABLE.....	REPAIR, RESTORATION AND CUSTOM REBINDING OF RARE BOOKS.....	1N01 LM54712-00	4,000
ORGANIZATION TOTAL	1      4,000		
<b>MORGANTOWN</b>			
<b>WEST VIRGINIA UNIVERSITY      ZIP CODE 26506</b>			
INSKEEP, EMMETT K.....	ENDOMETRIAL PROSTAGLANDINS AND LUTEAL FUNCTION.....	9N01 HD52815-00	21,574

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>WEST VIRGINIA—Continued</b>			
INSKEEP, EMMETT K.....	STUDY OF ENDOMETRIAL PROSTAGLANDINS & LUTEAL FUNCTIONS.....	3N01 HD92215-08	4,261
THOMAS, JOHN A.....	PITUITARY HORMONES, ANDROGENS AND PROSTATE METABOLISM.....	2N01 CP43230-01	111,066
VELTRI, ROBERT W.....	STUDY OF TUMOR-ASSOCIATED ANTIGENS IN LUNG CANCER.....	2N01 CB43890-01	114,214
ORGANIZATION TOTAL	4 251,115		
STATE TOTAL	5 255,115		
<b>WISCONSIN</b>			
<b>MADISON</b>			
<b>ENDOCRINE LABORATORIES OF MADISON ZIP CODE 53701</b>			
MEYER, ELVA S.....	DEVELOP RADIOIMMUNOASSAY FOR MONKEY GONADOTROPINS.....	3N01 HD02250-07	30,676
ORGANIZATION TOTAL	1 30,676		
<b>MOGUL CORPORATION ZIP CODE 53713</b>			
FORTNEY, ROGER D.....	PRODUCTION AND MAINTENANCE OF RODENTS.....	3N01 CM12007-08	130,317
FORTNEY, ROGER D.....	OPERATION OF A GERM-FREE RODENT COLONY.....	1N01 CM53813-00	651,591
FORTNEY, ROGER D.....	MAINTENANCE OF RODENT PRODUCTION CENTER.....	1N01 CM53846-00	210,092
ORGANIZATION TOTAL	3 992,000		
<b>UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON ZIP CODE 53706</b>			
BRANDENBURG, JAMES H.....	DEMONSTRATION PROJECT FOR HEAD AND NECK CANCER.....	2N01 CN45130-01	182,953
CAMERON, JOHN R.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	2N01 CN45152-02	169,600
DAVIS, MATTHEW D.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32130-03	188,792
DAVIS, MATTHEW D.....	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY52148-00	159,541
DELUCA, HECTOR F.....	VITAMIN D METABOLITES AND ANALOGS.....	2N01 AM22226-03	62,660
EASTERDAY, BERNARD C.....	STUDY OF INTERFERON.....	2N01 AI02132-07	48,589
KOLTHOFF, NORMA J.....	ONCOLOGY NURSING PROGRAMS IN CANCER CENTERS.....	5N01 CN45115-02	84,120
KORNGUTH, STEVEN E.....	ETIOLOGY AND DIAGNOSIS OF MULTIPLE SCLEROSIS.....	5N01 NS42308-01	84,120
MYERS, FRANK L.....	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY52140-00	92,570
NOWINSKI, ROBERT C.....	MURINE LEUKEMIA VIRUS IN SPONTANEOUS LEUKEMIA.....	9N01 CP53515-00	287,597
OSBORNE, RICHARD H.....	GENETIC-ODONTOMETRIC STUDY OF PRE- AND NEO-NATAL GROWTH.....	3N01 NS22303-07	23,710
PERLMAN, DAVID.....	BIOAUTOGRAPHIC STUDIES OF CYTOTOXIC PLANT SAMPLES.....	5N01 CM33733-03	40,000
ROSE, DAVID P.....	EFFECT OF ORAL CONTRACEPTIVES ON VITAMIN B6.....	2N01 HD22782-04	69,282
RUSCH, HAROLD P.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	1N01 CN55228-00	80,895
RUSCH, HAROLD P.....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM.....	1N01 CN55270-00	120,221
SIEDBAND, MELVIN P.....	DEVELOPMENT - TESTING OF SYSTEM TO IMPROVE X-RAY IMAGING.....	1N01 CB53914-00	121,946
SMITHIES, OLIVER.....	BIOCHEMISTRY OF NORMAL AND TUMOR CELL SURFACE ANTIGENS.....	2N01 CB43986-01	68,601
UPDIKE, STUART J.....	CLINICAL EVALUATION OF BLOOD GAS SENSORS.....	1N01 HR52950-00	32,785
WELLS, ROBERT D.....	PREPARATION AND CHARACTERIZATION OF HYBRID POLYMERS.....	5N01 CM12275-04	95,000
ORGANIZATION TOTAL	19 2,012,982		
<b>WISCONSIN ALUMNI RESEARCH FOUNDATION INSTITUTE ZIP CODE 53704</b>			
COON, FRANCIS B.....	PREPARATION OF PLANT EXTRACTS.....	3N01 CM43707-02	102,682
DE DENNIS, SUSANA R.....	IN VIVO SCREENING FOR ANTICANCER ACTIVITY.....	1N01 CM53770-00	1,038,772
ORGANIZATION TOTAL	2 1,141,454		
<b>WISCONSIN STATE DEPARTMENT OF HEALTH AND SOCIAL SERVICES ZIP CODE 53702</b>			
DOHERTY, JOSEPH M.....	COMMUNITY CARIES PREVENTION DEMONSTRATION PROJECT.....	1N01 DE52465-00	11,426
LARKIN, EDWIN R.....	STATE-WIDE CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55156-00	49,998
ORGANIZATION TOTAL	2 61,424		

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>WISCONSIN—Continued</b>			
<b>MARSHFIELD</b>			
<b>MARSHFIELD MEDICAL FOUNDATION</b>	<b>ZIP CODE 54449</b>		
SAUTTER, RICHARD D.....	CLINICAL TRIALS OF SULFINPYRAZONE.....	3N01 HB42977-02	10,288
SAUTTER, RICHARD D.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	3N01 HV32981-04	190,338
ORGANIZATION TOTAL	2 200,626		
<b>MILWAUKEE</b>			
<b>ALDRICH CHEMICAL COMPANY</b>	<b>ZIP CODE 53233</b>		
LI, JORGE.....	PREPARATION OF BULK CHEMICALS AND DRUGS.....	2N01 CM23706-04	134,772
ORGANIZATION TOTAL	1 134,772		
<b>MEDICAL COLLEGE OF WISCONSIN</b>	<b>ZIP CODE 53233</b>		
AABERG, THOMAS M.....	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY52143-00	44,083
FLEMMMA, ROBERT J.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	2N01 HV32982-05	79,658
GROSSBERG, SIDNEY E.....	SUPPLY OF INTERFERONS AS STANDARD REFERENCE REAGENTS.....	2N01 AI42514-01	47,949
GROSSBERG, SIDNEY E.....	STUDY OF STABILITY OF HUMAN INTERFERON.....	2N01 AI42520-01	68,989
MILBRATH, JOHN R.....	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER.....	1N01 CN55247-00	277,843
MILBRATH, JOHN R.....	RESERPINE AND BREAST CANCER.....	1N01 CP53543-00	3,308
SANCES, ANTHONY, JR.....	NMR CONCEPTS AND DEVELOPMENT OF BIOLOGICAL FLOW.....	2N01 HI02216-06	61,845
YOUKER, JAMES E.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	9N01 CN55308-00	254,349
ORGANIZATION TOTAL	8 838,024		
<b>MILWAUKEE BLOOD CENTER</b>	<b>ZIP CODE 53233</b>		
ASTER, RICHARD H.....	STUDY TO IMPROVE METHODS OF PRESERVING PLATELETS.....	2N01 HB02213-09	30,520
ORGANIZATION TOTAL	1 30,520		
<b>MOUNT SINAI MEDICAL CENTER</b>	<b>ZIP CODE 53233</b>		
BORTIN, MORTIMER M.....	STUDY OF GRAFTS AND TUMORS OF CARCINOMA.....	2N01 CB33853-01	75,000
ORGANIZATION TOTAL	1 75,000		
<b>UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MILWAUKEE</b>	<b>ZIP CODE 53201</b>		
CHILMAN, CATHERINE S.....	CONTRACEPTIVES AND REPRODUCTIVE BEHAVIOR IN ADOLESCENTS.....	1N01 HD52821-00	48,573
ORGANIZATION TOTAL	1 48,573		
STATE TOTAL	41 5,566,051		
<b>PUERTO RICO</b>			
<b>MAYAGUEZ</b>			
<b>OMNI RESEARCH-CARIBBEAN RESEARCH LABORATORIES</b>	<b>ZIP CODE 00708</b>		
WHEELER, OWEN H.....	DERIVATIVES OF CARCINOGENIC POLYCYCLIC HYDROCARBONS.....	2N01 CP33386-02	23,470
ORGANIZATION TOTAL	1 23,470		
<b>SAN JUAN</b>			
<b>PUERTO RICO DEPARTMENT OF HEALTH</b>	<b>ZIP CODE 00908</b>		
MARTINEZ, ISIDRO.....	CERVICAL CANCER SCREENING PROGRAM—PUERTO RICO.....	1N01 CN55075-00	55,754
MARTINEZ, ISIDRO.....	CANCER SURVEY IN THE PUERTO RICO AREA.....	3N01 CP43386-02	8,000
ORGANIZATION TOTAL	2 63,754		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>PUERTO RICO—Continued</b>			
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS		ZIP CODE 00936	
BERROCAL, JOSE.....	CLINICAL STUDY OF DIABETIC RETINOPATHY.....	5N01 EY42142-03	54,341
GARCIA-PALMIERI, MARIO R.....	EPIDEMIOLOGICAL STUDIES OF CORONARY HEART DISEASE.....	2N01 HV42902-01	364,767
GARCIA-PALMIERI, MARIO R.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	1N01 HV52910-00	117,958
KERBER, WILLIAM T.....	RESEARCH AND BREEDING OF NONHUMAN PRIMATES.....	1N01 RR52110-00	296,962
KERBER, WILLIAM T.....	DOMESTIC SQUIRREL MONKEY PRODUCTION.....	1N01 RR52133-00	122,485
OQUENDO, FRANCISCO H.....	TRAINING PREVENTIVE DENTISTRY AIDES.....	1N01 DE52480-00	96,681
ORGANIZATION TOTAL	6	1,053,194	
STATE TOTAL	9	1,140,418	
<b>TRUST PACIFIC</b>			
<b>SAIPAN</b>			
TRUST TERRITORY OF THE PACIFIC ISLANDS DEPARTMENT OF HEALTH SERVICES 96950			
KUMANGI, MASAO.....	TRUST TERRITORY CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN55168-00	193,278
ORGANIZATION TOTAL	1	193,278	
STATE TOTAL	1	193,278	
<b>OTHER COUNTRIES</b>			
<b>AUSTRALIA</b>			
<b>MELBOURNE</b>			
UNIVERSITY OF MELBOURNE			
MC KENZIE, IAN F.....	SEROLOGIC AND IMMUNOGENETIC INVESTIGATIONS.....	2N01 CB43925-01	48,315
METCALF, DONALD.....	GRANULOCYTE AND MACROPHAGE PROLIFERATION IN LEUKEMIA.....	2N01 CB33854-01	127,215
NOSSAL, G J.....	ROLE OF T AND B LYMPHOCYTES IN TUMOR IMMUNITY.....	2N01 CB23889-02	129,781
WARNER, N L.....	DETECT ANTIGEN BINDING OF TRANSPLANTABLE T-CELL TUMORS.....	1N01 CB53878-00	61,292
ORGANIZATION TOTAL	4	366,603	
STATE TOTAL	4	366,603	
<b>AUSTRIA</b>			
<b>SALZBURG</b>			
AUSTRIAN ACADEMY OF SCIENCES—INSTITUTE FOR MOLECULAR BIOLOGY			
KRATOCHWILL, KLAUS.....	RESPONSE OF EMBRYO MAMMARY GLAND TO ANDROGENIC HORMONES.....	2N01 CB33883-03	43,000
ORGANIZATION TOTAL	1	43,000	
STATE TOTAL	1	43,000	



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>BELGIUM</b>			
<b>BRUSSELS</b>			
<b>EUROPEAN ORGANIZATION FOR RESEARCH ON TREATMENT OF CANCER</b>			
ATASI, GHANEM .....	IN VIVO SCREENING FOR ANTICANCER ACTIVITY .....	1N01 CM57040-00	454,688
TAGNON, HENRI J. ....	CANCER CHEMOTHERAPY RESEARCH COLLABORATIVE OFFICE .....	9N01 CM53840-00	57,000
ORGANIZATION TOTAL	2	511,688	
<b>FREE UNIVERSITY OF BRUSSELS</b>			
TAGNON, HENRI J. ....	LIAISON OFFICE FOR CANCER CHEMOTHERAPY .....	3N01 CM22053-05	3,108
ORGANIZATION TOTAL	1	3,108	
STATE TOTAL	3	514,796	
<b>CANADA</b>			
<b>BURNABY</b>			
<b>SIMON FRASER UNIVERSITY</b>			
CHOW, W L .....	STUDY OF N-NITROSO COMPOUNDS .....	2N01 CP43338-01	14,128
ORGANIZATION TOTAL	1	14,128	
<b>HALIFAX</b>			
<b>DALHOUSIE UNIVERSITY</b>			
RAUTAHARJU, P M .....	SUPPORT FOR ECG CENTER FOR PREVENTION OF HEART DISEASE .....	2N01 HV42911-02	244,807
ORGANIZATION TOTAL	1	244,807	
<b>HAMILTON</b>			
<b>MCMASTER UNIVERSITY</b>			
SINCLAIR, JOHN C .....	NEONATAL RESPIRATORY INSUFFICIENCY AND FAILURE .....	1N01 HR52959-00	101,600
ORGANIZATION TOTAL	1	101,600	
<b>LONDON</b>			
<b>UNIVERSITY OF WESTERN ONTARIO</b>			
STREJAN, GILL H .....	PRODUCTION OF ALLERGENS FROM ASCARIS SUUM .....	2N01 AI42500-01	7,050
ORGANIZATION TOTAL	1	7,050	
<b>MONTREAL</b>			
<b>MCGILL UNIVERSITY</b>			
MACKLEN, P T .....	STANDARDIZATION OF MEASUREMENT OF CLOSING VOLUME .....	2N01 HR32902-02	149,550
ORGANIZATION TOTAL	1	149,550	
<b>MONTREAL CHILDREN'S HOSPITAL</b>			
DENTON, R L .....	SUPPLY OF BLOOD AND TISSUES FROM HUMAN LEUKEMIC CONTROLS .....	3N01 CP33377-03	10,000
ORGANIZATION TOTAL	1	10,000	
<b>MONTREAL HEART INSTITUTE</b>			
BOURASSA, MARTIAL G .....	COLLABORATIVE STUDY OF SURGERY ON CORONARY ARTERIES .....	2N01 HV32983-05	206,640

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CANADA—Continued</b>			
ORGANIZATION TOTAL	1	206,640	
<b>QUEBEC</b>			
<b>LAVAL UNIVERSITY</b>			
ENGEL, CHARLES R.....	SYNTHESIS OF STEROIDAL ANTIFERTILITY COMPOUNDS.....	2N01 HD22714-05	34,505
ORGANIZATION TOTAL	1	34,505	
<b>TORONTO</b>			
<b>HOSPITAL FOR SICK CHILDREN</b>			
MC CLURE, PETER D.....	SUPPLY OF BLOOD SPECIMENS AND SOLID-TUMOR MATERIALS.....	2N01 CP23266-04	15,000
ORGANIZATION TOTAL	1	15,000	
<b>ONTARIO CANCER INSTITUTE</b>			
SMINOVITCH, LOUIS.....	SUPPLY OF MUTANT VERTEBRATE CELLS.....	2N01 CP43331-03	178,000
ORGANIZATION TOTAL	1	178,000	
<b>UNIVERSITY OF TORONTO</b>			
LITTLE, ALICK.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV22917-05	1,631,230
MORGAN, ROBERT W.....	EFFECT OF EXOGENOUS ESTROGENS IN BREAST CANCER.....	1N01 CB53969-00	74,300
OSBORN, RICHARD W.....	HUSBAND AND WIFE ATTITUDES REGARDING FERTILITY.....	1N01 HD52824-00	38,852
SESSLE, BARRY J.....	NEURAL MECHANISM IN FUNCTIONS OF UPPER RESPIRATORY TRACT.....	1N01 HD52812-00	44,813
ORGANIZATION TOTAL	4	1,789,195	
<b>VANCOUVER</b>			
<b>UNIVERSITY OF BRITISH COLUMBIA</b>			
KUTNEY, JAMES P.....	SYNTHESIS OF VINBLASTINE AND VINCRIStINE.....	5N01 CM23223-04	97,968
ORGANIZATION TOTAL	1	97,968	
<b>WINNIPEG</b>			
<b>UNIVERSITY OF MANITOBA</b>			
CHERNIACK, REUBEN M.....	STUDY TO STANDARDIZE THE MEASUREMENT OF CLOSING VOLUME.....	2N01 HR32903-03	120,600
FRIESEN, HENRY G.....	STUDY OF HUMAN PROLACTIN.....	2N01 CP43250-03	45,326
ORGANIZATION TOTAL	2	165,926	
STATE TOTAL	17	3,014,369	
<b>COLOMBIA</b>			
<b>BOGOTA</b>			
<b>INSTITUTE FOR TECHNOLOGICAL INVESTIGATIONS</b>			
MONCADA, FELIX.....	DEVELOPMENT OF PANELA CONTAINING INVERT SUGAR.....	2N01 DE42431-02	10,897
ORGANIZATION TOTAL	1	10,897	

**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>COLOMBIA—Continued</b>			
<b>CALI</b>			
<b>UNIVERSITY OF VALLE</b>			
CUELLO, CARLOS.....	GEOGRAPHICAL PATHOLOGY AND EPIDEMIOLOGY OF CANCER.....	5N01 CP33286-03	82,567
ORGANIZATION TOTAL	1	82,567	
STATE TOTAL	2	93,464	
<b>FINLAND</b>			
<b>HELSINKI</b>			
<b>CENTRAL PUBLIC HEALTH LABORATORY</b>			
MAKELA, P HELENA.....	CONDUCTING A FIELD TRIAL OF MENINGOCOCCUS VACCINE.....	1N01 A152502-00	137,900
ORGANIZATION TOTAL	1	137,900	
<b>UNIVERSITY OF HELSINKI</b>			
MAKELA, V E.....	SPECIFICITY OF ANTIGEN-BINDING RECEPTORS ON T-CELLS.....	2N01 CB43923-01	28,800
RUOSLAHTI, ERKKI.....	ALPHA-FETOPROTEIN IN IMMUNOTHERAPY OF HEPATOMAS.....	1N01 CB53872-00	43,000
ORGANIZATION TOTAL	2	71,800	
STATE TOTAL	3	209,700	
<b>FRANCE</b>			
<b>LYON</b>			
<b>WORLD HEALTH ORGANIZATION—INTERNATIONAL AGENCY FOR RESEARCH ON CANCER</b>			
AGTHE, C.....	THE EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN.....	2N01 CP45608-01	219,500
DE THE, G BLAUDIN.....	SEROEPIDEMIOLOGICAL STUDY OF CARCINOMA AND LYMPHOMA.....	3N01 CP43296-02	649,555
KMET, JANEZ.....	ETIOLOGY OF ESOPHAGUS CANCER IN CASPIAN LITTORAL OF IRAN.....	3N01 CP43342-01	86,460
MUIR, C S.....	CLEARINGHOUSE FOR ON-GOING WORK IN CANCER EPIDEMIOLOGY.....	1N01 C055195-00	52,400
MUIR, C S.....	MEETING ON CANCER REGISTRIES AND ENVIRONMENTAL HAZARDS.....	1N01 CP53535-00	49,000
TOMATIS, LORENZO.....	SIGNIFICANCE OF EXPERIMENTAL CARCINOGENESIS DATA.....	1N01 CP55630-00	134,900
TULINIUS, HRAFN.....	PERFORMANCE OF A STUDY ON FAMILIALITY OF BREAST CANCER.....	2N01 CB43973-01	31,690
ORGANIZATION TOTAL	7	1,223,505	
<b>PARIS</b>			
<b>CURIE FOUNDATION</b>			
LATARJET, L.....	MOLECULAR AND GENETIC STUDY OF ROUS SARCOMA VIRUS.....	2N01 CP43219-01	52,000
ORGANIZATION TOTAL	1	52,000	
<b>SAINT-LOUIS HOSPITAL</b>			
BOIRON, MICHEL.....	MOLECULAR VIROLOGY STUDIES OF HUMAN LEUKEMIAS.....	2N01 CP33365-03	67,700
ORGANIZATION TOTAL	1	67,700	
STATE TOTAL	9	1,343,205	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>GERMANY BERLIN</b>			
<b>BERLIN</b>			
<b>SCHERING, INC.</b>			
MUEHE, BARBARA .....	LONG-ACTING INJECTABLE CONTRACEPTIVE AGENT .....	1N01 HD52817-00	1,211,168
ORGANIZATION TOTAL	1 1,211,168		
STATE TOTAL	1 1,211,168		
<b>GERMANY, FED R</b>			
<b>HANOVER</b>			
<b>HANOVER UNIVERSITY OF MEDICINE</b>			
MOHR, ULRICH .....	DEVELOP LUNG TUMOR MODEL WITH LARGE WILD HAMSTERS .....	2N01 CP12148-04	80,500
ORGANIZATION TOTAL	1 80,500		
STATE TOTAL	1 80,500		
<b>ISRAEL</b>			
<b>JERUSALEM</b>			
<b>HEBREW UNIVERSITY OF JERUSALEM</b>			
BECKER, YECHIEL .....	STUDY OF ROLE OF HERPES VIRUS (EBV) IN HUMAN CANCER .....	2N01 CP33310-03	103,567
GOLDBLUM, NATAN .....	STUDY OF HODGKIN'S DISEASE .....	2N01 CP33342-03	259,496
STEIN, W D .....	STUDIES OF MAMMALIAN CELL TRANSPORT SYSTEMS .....	2N01 CP43307-01	83,000
STEIN, YECHIZKIEL .....	ESTABLISHMENT OF A LIPID RESEARCH CLINIC .....	1N01 HV53015-00	299,950
WEISS, DAVID W .....	ANTITUMOR RESISTANCE BY EXTRACT OF TUBERCLE BACILLI .....	2N01 CM12127-04	115,424
ORGANIZATION TOTAL	5 861,437		
<b>ISRAELI MINISTRY OF HEALTH-CENTER OF REGISTRATION OF CANCER AND ALLIED DISEASES</b>			
STEINITZ, RUTH .....	STUDY OF CANCER INCIDENCE .....	2N01 CP33351-03	26,855
ORGANIZATION TOTAL	1 26,855		
<b>REHOVOTH</b>			
<b>WEIZMANN INSTITUTE OF SCIENCE</b>			
MECHAMA, HARAN-GHERA .....	MECHANISMS BY WHICH TUMORS AVOID IMMUNE DESTRUCTION .....	2N01 CB43930-01	114,750
SACHS, LEO .....	INVESTIGATE ASPECTS OF LUNG CANCER INCIDENCE .....	2N01 CP02217-05	145,000
SELA, MICHAEL .....	STUDIES OF SYNGENIC CELLS .....	2N01 CB23890-04	234,713
SELA, MICHAEL .....	DRUG-ANTIBODY CONJUGATES .....	1N01 CB53958-00	29,520
SHAPIRO, DAVID .....	PRODUCE 3 RADIOLABELED GLYCOLIPID SUBSTANCES .....	1N01 NS52300-00	33,150
SILBERBERG, ALEXANDER .....	STUDIES ON INTERACTIONS OF PLATELETS WITH COLLAGENS .....	1N01 HB52907-00	72,600
TRAININ, NATHAN .....	THYMIC PRODUCTS FOR LYMPHOCYTE DIFFERENTIATION .....	1N01 CB53926-00	65,000
URIEL, LITTAUER .....	STUDY OF ALTERATION IN TRANSLATION OF GENETIC MESSAGES .....	2N01 CP33220-02	314,000
ORGANIZATION TOTAL	8 1,008,733		
<b>TEL AVIV</b>			
<b>TEL AVIV UNIVERSITY</b>			
FRENSDORFF, ASHER .....	VACCINATION OF MICE WITH CELL FREE ANTIGENS .....	1N01 CP53517-00	59,952
KEYDAR, JAJA .....	ISOLATION OF B-TYPE PARTICLES FROM HUMAN MILK .....	3N01 CP23237-03	88,100



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ISRAEL—Continued</b>			
WITZ, ISAAC P.....	STUDY OF TUMOR CELL AND IMMUNOGLOBIN INTERACTIONS.....	2N01 CB43858-01	47,170
ORGANIZATION TOTAL	3 195,222		
<b>TEL HASHOMER</b>			
<b>CHIAM SHEBA MEDICAL CENTER</b>			
MODAN, BARUCH.....	CORRELATION OF DIET EPIDEMIOLOGY OF BREAST CANCER.....	1N01 CB53883-00	41,500
ORGANIZATION TOTAL	1 41,500		
STATE TOTAL	18 2,133,747		
<b>ITALY</b>			
<b>MILAN</b>			
<b>FARMITALIA</b>			
ARCAMONE, FEDERICO MARIA.....	DERIVATIVES AND ANALOGS OF DOXORUBICIN.....	1N01 CM57014-00	156,316
LUIGI, BERNARDI.....	DESIGN AND SYNTHESIS OF AGLYCONES TO DOXORUBICINONE.....	1N01 CM57036-00	153,182
ORGANIZATION TOTAL	2 309,498		
<b>MARIO NEGRI INSTITUTE FOR PHARMACOLOGICAL RESEARCH</b>			
GARATTINI, SILVIO.....	STUDY OF METABOLISM OF ANTINEOPLASTIC AGENTS.....	2N01 CM23242-03	60,176
GARATTINI, SILVIO.....	COLLECTION AND SCREENING OF ANTINEOPLASTIC AGENTS.....	2N01 CM33720-03	165,600
GARATTINI, SILVIO.....	COMPARATIVE PHARMACOLOGY OF STEROID CONTRACEPTIVE DRUGS.....	5N01 HD22733-05	125,000
SPREAFICO, FEDERICO.....	STUDIES IN IMMUNOCHEMOTHERAPY RESEARCH.....	1N01 CM53826-00	77,175
ORGANIZATION TOTAL	4 427,951		
<b>NATIONAL TUMOR INSTITUTE</b>			
VERONESI, UMBERTO.....	STUDY OF CANCER AND BRAIN TUMORS.....	2N01 CM33714-04	104,491
VERONESI, UMBERTO.....	COORDINATING CENTER FOR THE CLINICAL STUDY OF MELANOMA.....	2N01 CM43726-02	50,000
ORGANIZATION TOTAL	2 154,491		
<b>NAPLES</b>			
<b>UNIVERSITY OF NAPLES</b>			
GIORDANO, CARMELO.....	STUDY ON AMINO ACID AND UREMIA.....	2N01 AM90066-07	18,000
GIORDANO, CARMELO.....	STUDY ON OXYSTARCH AND UREMIA.....	3N01 AM90070-06	36,500
ORGANIZATION TOTAL	2 54,500		
<b>PADUA</b>			
<b>UNIVERSITY OF PADUA</b>			
DOGO, GIOVANNI.....	PROCUREMENT OF FIBROBLAST CULTURES.....	2N01 CP33359-02	10,972
ORGANIZATION TOTAL	1 10,972		
<b>PISA</b>			
<b>UNIVERSITY OF PISA</b>			
BIANCHI, ROMANO.....	STUDY OF DIETARY TREATMENT OF CHRONIC UREMIA.....	2N01 AM80707-13	25,095
ORGANIZATION TOTAL	1 25,095		
STATE TOTAL	12 982,507		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>JAPAN</b>			
<b>NAGOYA</b>			
<b>AICHI CANCER CENTER</b>			
NISHIZUKA, YASUAKI.....	PERINATAL ALTERATIONS-INFLUENCE ON CARCINOGENESIS.....	1N01 CP55650-00	54,500
SEGI, MITSUO.....	SHIFTS IN CANCER RISKS FOR SPECIFIC SITES.....	2N01 CP23213-05	120,873
ORGANIZATION TOTAL	2 175,373		
<b>OSAKA</b>			
<b>OSAKA CITY UNIVERSITY</b>			
TOKUYAMA, TAKASHI.....	STUDY OF STRUCTURE OF ALKALOIDS.....	2N01 AM42203-01	6,000
ORGANIZATION TOTAL	1 6,000		
<b>TOKYO</b>			
<b>CANCER INSTITUTE</b>			
IKAWA, YOJI.....	CULTURES OF ERYTHROLEUKEMIC MOUSE CELLS.....	1N01 HD52809-00	25,177
ORGANIZATION TOTAL	1 25,177		
<b>INSTITUTE OF MICROBIAL CHEMISTRY</b>			
UMEGANA, HARNAO.....	POTENTIAL ANTITUMOR AGENTS FROM MICROBIAL ORIGIN.....	1N01 CM57009-00	55,000
ORGANIZATION TOTAL	1 55,000		
<b>JAPANESE FOUNDATION FOR CANCER RESEARCH</b>			
SAKURAI, YOSHIO.....	CANCER LIAISON OFFICE IN JAPAN.....	2N01 CM22054-05	55,000
ORGANIZATION TOTAL	1 55,000		
STATE TOTAL	6 316,550		
<b>NETHERLANDS</b>			
<b>AMSTERDAM</b>			
<b>NETHERLANDS CANCER INSTITUTE</b>			
BOOT, LOURENS M.....	IMMUNOGENETIC STUDY OF BREAST CANCER AND LEUKEMIA.....	2N01 CP33368-02	117,600
CLETON, FRANS J.....	FAMILY AND GENETIC STUDIES IN HUMAN BREAST CANCER.....	2N01 CB43940-02	50,130
RUMKE, PHILIP.....	STUDIES FOR SPERM IMMUNOLOGY.....	2N01 HD32700-02	47,787
RUMKE, PHILIP.....	SPERM IMMUNOLOGY.....	9N01 HD52834-00	130,581
ORGANIZATION TOTAL	4 346,098		
<b>LEIDEN</b>			
<b>STATE UNIVERSITY OF LEIDEN</b>			
VAN ROOD, J J.....	STUDY OF HISTOCOMPATIBILITY TECHNOLOGY.....	2N01 AI42508-02	96,556
ORGANIZATION TOTAL	1 96,556		
<b>RIJSWIJK</b>			
<b>NETHERLANDS CENTRAL ORGANIZATION TWO</b>			
BENTVELZEN, PETER A.....	STUDY OF RELEASE OF RNA TUMOR VIRUSES.....	2N01 CP43328-01	162,500
VAN PUTTEN, L M.....	COMBINATION OF RADIATION AND CHEMOTHERAPY.....	1N01 CM53763-00	57,023

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract		Contract No.	Dollars
NETHERLANDS—Continued				
ORGANIZATION TOTAL	2	219,523		
UTRECHT				
STATE UNIVERSITY OF UTRECHT				
DE WAARD, FRITS.....	STUDY OF ROLE OF OBESITY IN CANCER OF THE BREAST .....		2N01 CB33885-02	12,000
ORGANIZATION TOTAL	1	12,000		
STATE TOTAL	8	674,177		
NORWAY				
OSLO				
NORWEGIAN PUBLIC HEALTH SERVICE				
PEDERSEN, EINAR .....	STUDY OF SHIFTS IN CANCER RISKS .....		2N01 CP43247-02	98,998
ORGANIZATION TOTAL	1	98,998		
STATE TOTAL	1	98,998		
PHILIPPINES				
LOS BANOS				
INTERNATIONAL RICE RESEARCH INSTITUTE				
JULIANO, BIENVENIDO O.....	SCREENING OF RICE VARIETIES.....		2N01 AM70726-12	12,430
ORGANIZATION TOTAL	1	12,430		
STATE TOTAL	1	12,430		
S AFR REP OF				
CAPE TOWN				
UNIVERSITY OF CAPE TOWN				
SEALY, GORDON R.....	THERAPY OF PATIENTS WITH BRONCHOGENIC CARCINOMA .....		5N01 CM33738-04	29,638
ORGANIZATION TOTAL	1	29,638		
STATE TOTAL	1	29,638		
SPAIN				
MADRID				
MADRID UNIVERSITY				
GOSALVEZ, MARIO .....	CHARACTERIZATION OF ANTITUMOR DRUGS .....		1N01 CM53792-00	28,400
ORGANIZATION TOTAL	1	28,400		
STATE TOTAL	1	28,400		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>SWEDEN</b>			
<b>STOCKHOLM</b>			
<b>CAROLINE INSTITUTE</b>			
ANDERSSON, BIRGER .....	ROLE OF T-LYMPHOCYTES IN TUMOR-ASSOCIATED IMMUNITY .....	2N01 CB33866-02	20,000
BERGSTROM, JONAS .....	STUDY OF UREMIC TOXICOLOGY .....	2N01 AM22215-05	51,570
BERGSTROM, SUNE .....	INTERNATIONAL DOCUMENTATION CENTER ON HUMAN REPRODUCTION .....	2N01 HD22736-03	35,108
BLOMGREN, HENRIC .....	STUDY OF CELL SYNERGY IN IMMUNE REACTIONS .....	2N01 CB33868-02	30,000
CASPERSSON, TORBJORN .....	MARKERS APPLICABLE TO GYNECOLOGIC CYTOPATHOLOGY SPECIMEN .....	5N01 CB43945-01	35,000
KLEIN, EVA .....	STUDY OF EFFECTOR MECHANISMS IN IMMUNE REACTIONS .....	2N01 CB33870-02	43,000
KLEIN, EVA .....	HUMAN TUMOR ASSOCIATED ANTIGENS AND ANTIBODIES .....	2N01 CB43921-01	59,760
KLEIN, GEORGE .....	ETIOLOGY OF SOME HUMAN CANCERS .....	2N01 CP33316-03	150,000
MUTT, VIKTOR .....	PREPARE AND DISTRIBUTE GASTROINTESTINAL HORMONES .....	1N01 AM52207-00	61,668
WIGZELL, HANS .....	STUDY OF CELL-MEDIATED LYSIS .....	2N01 CB33859-02	58,000
ORGANIZATION TOTAL	10 544,106		
<b>UNIVERSITY OF STOCKHOLM</b>			
ERNSTER, LARS .....	STUDY OF POLYCYCLIC HYDROCARBON METABOLISM .....	3N01 CP33363-01	180,348
ORGANIZATION TOTAL	1 180,348		
<b>UPPSALA</b>			
<b>UNIVERSITY OF UPPSALA</b>			
STENKVIST, BJORN .....	MORPHOLOGIC AND EPIDEMIOLOGIC ASPECTS OF BREAST CANCER .....	1N01 CB53968-00	92,800
WIGZELL, HANS .....	HUMAN PERIPHERAL BLOOD MONONUCLEAR CELL .....	2N01 CB43883-01	33,500
ORGANIZATION TOTAL	2 126,300		
STATE TOTAL	13 850,754		
<b>SWITZERLAND</b>			
<b>GENEVA</b>			
<b>INTERNATIONAL UNION AGAINST CANCER</b>			
DELAFRESNAYE, JEAN F. ....	ADVISORY SERVICES FOR NCI INTERNATIONAL PROGRAMS .....	5N01 C045414-02	128,284
DELAFRESNAYE, JEAN F. ....	INTERNATIONAL INVESTIGATION ON EPIDEMIOLOGY OF LYMPHOMAS .....	2N01 CP43292-01	10,000
ORGANIZATION TOTAL	2 138,284		
<b>WORLD HEALTH ORGANIZATION</b>			
BARMES, DAVID E .....	ETIOLOGY OF DENTAL CARIES IN PAPUA-NEW GUINEA .....	2N01 DE22003-06	70,500
GOODMAN, HOWARD C .....	SUPPLY FLUORESCENTLY LABELLED IGM ANTISERUM .....	1N01 AI52503-00	20,000
KUPKA, KAREL .....	INTERNATIONAL CLASSIFICATION OF DISEASES-ONCOLOGY .....	1N01 C055218-00	113,735
ORGANIZATION TOTAL	3 204,235		
STATE TOTAL	5 342,519		
<b>UGANDA</b>			
<b>KAMPALA</b>			
<b>MAKERERE UNIVERSITY</b>			
KYOLWAZI, SEBASTIAN .....	SUPPORT FOR CANCER TREATMENT CENTER .....	2N01 CM71343-13	251,681
ORGANIZATION TOTAL	1 251,681		



**Table 2.—NIH Research and Development Contracts, by Area, Organization,  
and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>UGANDA—Continued</b>			
STATE TOTAL	1	251,681	
<b>UNITED KINGDOM</b>			
<b>BECKENHAM</b>			
<b>WELLCOME RESEARCH LABORATORIES</b>			
EDWARDS, D C.....	SELECTIVE STIM. OR SUPPRESS. OF IMMUNOLOGIC RESPONSES.....	2N01 CB43929-01	16,160
ORGANIZATION TOTAL	1	16,160	
<b>CARDIFF</b>			
<b>VELindre HOSPITAL</b>			
PRITCHARD, J A.....	MACROPHAGE ELECTROPHORETIC MOBILITY: MALIGNANT DISEASES.....	1N01 CB53956-00	38,021
ORGANIZATION TOTAL	1	38,021	
<b>EAST GRINSTEAD</b>			
<b>QUEEN VICTORIA HOSPITAL</b>			
SANDERSON, ARNOLD R.....	LIPOsome MODEL SYSTEM.....	1N01 CB53876-00	20,000
ORGANIZATION TOTAL	1	20,000	
<b>LEATHERHEAD</b>			
<b>BRITISH FOOD MANUFACTURING INDUSTRIES RESEARCH ASSOCIATION</b>			
HOLMES, A W.....	N-NITROSO COMPOUNDS AND PRECURSORS IN THE ENVIRONMENT.....	2N01 CP43337-01	68,750
ORGANIZATION TOTAL	1	68,750	
<b>LEEDS</b>			
<b>UNIVERSITY OF LEEDS</b>			
COOPER, EDWARD H.....	TRIALS IN GASTROINTESTINAL CANCER.....	2N01 CM43727-02	43,455
ORGANIZATION TOTAL	1	43,455	
<b>LONDON</b>			
<b>MEDICAL RESEARCH COUNCIL</b>			
KLYNE, WILLIAM.....	PROVIDE RESEARCH RESOURCES.....	2N01 AM50032-13	21,432
ORGANIZATION TOTAL	1	21,432	
<b>UNIVERSITY OF LONDON</b>			
CONNORS, THOMAS A.....	DEVELOPMENT OF SYSTEM FOR COLLECTING ANTICANCER AGENTS.....	2N01 CM43736-02	29,992
LAMERTON, LEONARD F.....	STUDY OF CHEMOTHERAPEUTIC RESPONSE OF TUMORS.....	2N01 CM23717-03	54,760
ORGANIZATION TOTAL	2	84,752	
<b>OXFORD</b>			
<b>UNIVERSITY OF OXFORD</b>			
JOHNSON, PAUL.....	STUDY OF SUDDEN INFANT DEATH SYNDROME.....	3N01 HD32772-02	80,171
ORGANIZATION TOTAL	1	80,171	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>UNITED KINGDOM—Continued</b>			
STATE TOTAL	9	372,741	



## APPENDIX

### Notes on Selected Organizations

Organizations appearing in more than one geographical location or requiring a clarifying comment are listed below in alphabetic sequence. Comments on certain foundations or on organizations whose names have changed since last year appear after the name of the organization.

#### United States

- American Association for Laboratory Animal Science (formerly shown as American Association for Accreditation of Laboratory Animal Care)--Joliet, Ill.
- American Cancer Society--New York, N.Y. See also American Cancer Society California Division, San Francisco, Calif.
- American Cancer Society California Division--San Francisco, Calif.
- See also American Cancer Society, New York, N.Y.
- American Institutes for Research--Palo Alto, Calif.; Washington, D.C.
- Aries Corporation (formerly shown in McLean, Va.)--Arlington, Va.
- Battelle Memorial Institute--Columbus, Ohio; Richland, Seattle, Wash.
- Becton, Dickinson and Company--Towson, Md.; Research Triangle Park, N.C.
- Boston Health and Hospitals Department (includes awards to Mallory Institute of Pathology Foundation)--Boston (2 units), Mass.
- California State Health and Welfare Agency--Berkeley, Sacramento, Calif.
- Calspan Corporation (formerly shown in Buffalo, N.Y.)--Cheektowaga, N.Y.
- City University of New York--New York (2 units), N.Y.
- College of Medicine and Dentistry of New Jersey--Newark, Piscataway, N.J.
- Cornell University--Ithaca, New York, N.Y.
- Digital Equipment Corporation--Riverdale, Md.; Maynard, Mass.
- E G & G, Inc.--Rockville, Md.; Worcester, Mass. The unit in Maryland was formerly shown as Wolf Research and Development Corporation. The unit in Worcester, Mass. was formerly shown as Mason Research Institute.
- Florida Department of Health and Rehabilitative Services--Jacksonville, Miami, Fla.
- Flow Laboratories--Rockville (2 units), Md.
- Gulf South Research Institute--Baton Rouge, New Orleans, La.
- Indiana State Department of Mental Health (may include awards to the Association for Advancement of Mental Research and Education, Inc.)--New Castle, Ind.
- Informatics, Inc.--Cheverly, Rockville, Md.
- JRB Associates--Arlington, McLean, Va.
- Kaiser Foundation Hospitals--Oakland, San Francisco, Calif.
- Litton Industries (formerly shown in Rockville, Md.)--Kensington, Md.
- Los Angeles County Health Services Department--Downey, Los Angeles, Torrance, Calif.
- Marshfield Medical Foundation (formerly shown as Marshfield Clinic Foundation for Medical Research and Education)--Marshfield, Wis.



Merck and Company--Rahway (2 units), N.J.  
 New York State Department of Health (may include awards to Health Research, Inc.)--Albany, Buffalo, N.Y.  
 New York State Department of Mental Hygiene (may include awards to the New York State Research Foundation for Mental Hygiene)--Albany, N.Y.  
 Omni Research--Baltimore, Md.; Mayaguez, P.R.  
 Oregon State Higher Education System--Corvallis, Portland (2 units), Ore. The University of Oregon Health Sciences Center in Portland includes the medical and dental schools which were formerly shown separately.  
 Pennsylvania State University--Hershey, University Park, Pa.  
 Sidney Farber Cancer Center (formerly shown as Children's Cancer Research Foundation)--Boston, Mass.  
 South Carolina Department of Health and Environmental Control (formerly shown as South Carolina State Board of Health)--Columbia, S.C.  
 State University of Florida System--Gainesville, Tallahassee, Fla.  
 State University of New York--Albany, Buffalo, New York, Stony Brook, Syracuse, N.Y.  
 Technicon Corporation--Fairfield, N.J.; Tarrytown, N.Y.  
 Tracor, Inc.--Jitco, Inc. (formerly shown as Tracor, Inc.--John I. Thompson & Company)--Rockville, Md.  
 TRW, Inc.--Redondo Beach, Calif.; McLean, Va.  
 Tulane University--Covington, New Orleans, La.  
 U.S. Small Business Administration--Washington, D.C.; Bala-Cynwyd, Pa.  
 University of Arkansas--Little Rock (2 units), Ark.  
 University of California System--Berkeley, Davis, Irvine, La Jolla, Los Angeles, San Francisco, Calif.  
 University of Colorado--Boulder, Denver, Colo.  
 University of Connecticut--Farmington, Storrs, Conn.  
 University of Illinois System--Chicago, Urbana, Ill.  
 University of Kansas--Kansas City, Lawrence, Kans.  
 University of Maryland System--Baltimore, College Park, Md.  
 University of Minnesota--Austin, Duluth, Minneapolis, Minn.  
 University of Mississippi--Jackson, University, Miss.  
 University of Nebraska System--Lincoln, Omaha, Neb.  
 University of Tennessee System--Knoxville, Memphis, Tenn. The University of Tennessee Center for Health Sciences was formerly shown as University of Tennessee Medical Units.  
 University of Texas System--Austin, Dallas, Galveston, Houston (2 units), San Antonio, Tex.  
 University of Wisconsin System--Madison, Milwaukee, Wis.  
 University System of Georgia--Athens, Atlanta, Augusta, Ga.  
 Virginia Mason Research Center (formerly shown as Virginia Mason Foundation for Medical Education and Research)--Seattle, Wash.  
 Washington University (formerly shown at St. Louis, Mo.)--University City, Mo.

#### Other Countries

World Health Organization--Lyon, France; Geneva, Switzerland





# NATIONAL INSTITUTES OF HEALTH

Grants  
for  
Training  
Construction  
Medical Libraries

FISCAL YEAR 1975 FUNDS



U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE  
Public Health Service      National Institutes of Health



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# NATIONAL INSTITUTES OF HEALTH

## Grants for Training Construction Medical Libraries

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Public Health Service                      National Institutes of Health

DHEW Publication No. (NIH) 76-1043

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Prepared by  
NATIONAL INSTITUTES OF HEALTH  
DIVISION OF RESEARCH GRANTS  
Statistics and Analysis Branch

## **PREFACE**

The mission of the National Institutes of Health is to protect and improve the health of the American people. To achieve this goal, NIH conducts biomedical research in its own laboratories; provides grants to nonprofit organizations and academic institutions for research; provides grants for the training of research investigators; supports biomedical communications through programs and activities of the National Library of Medicine; and provides grants for facilities and other resources required for cancer research. In addition, the contract mechanism is used under appropriate circumstances.

Listings of NIH grants and contracts are prepared annually by the Division of Research Grants, based on records contained in the NIH central record system (IMPAC). This book presents awards for training, construction, and medical libraries made from fiscal year 1975 funds.





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## INTRODUCTION

### *Coverage*

This volume presents the training grants, traineeships and fellowships, cancer research facilities construction, and medical library grants awarded by the National Institutes of Health. Awards for training and construction made by other constituent agencies of the Public Health Service are not included in this volume.

The awards shown in this volume are those made from fiscal year 1975 funds, as well as a small number from fiscal year 1973 released funds which were obligated in fiscal year 1975. The preponderance of fiscal year 1973 released funds were obligated in fiscal year 1974 and were shown in the publication for that year. Awards made from fiscal year 1973 released funds are designated as fiscal year 1973/75.

### *Appendix*

Organizations appearing in more than one geographical location, or requiring a clarifying comment, are listed in the appendix in alphabetic sequence.



## APPENDIX

TABLE I		TABLE II	
Summary of the results of the experiments		Summary of the results of the experiments	
Experiment	Results	Experiment	Results
1	1.00	1	1.00
2	0.95	2	0.95
3	0.90	3	0.90
4	0.85	4	0.85
5	0.80	5	0.80
6	0.75	6	0.75
7	0.70	7	0.70
8	0.65	8	0.65
9	0.60	9	0.60
10	0.55	10	0.55
11	0.50	11	0.50
12	0.45	12	0.45
13	0.40	13	0.40
14	0.35	14	0.35
15	0.30	15	0.30
16	0.25	16	0.25
17	0.20	17	0.20
18	0.15	18	0.15
19	0.10	19	0.10
20	0.05	20	0.05

## TECHNICAL NOTE

### *Organization Identification*

In the presentation of grants made from fiscal year 1975 funds, emphasis is placed on listing the organizations in the city and State of the unit in which professional responsibility of the principal investigator lies. Study of the structure of grantee organizations in the United States (primarily universities and colleges, and State departments of mental health or their equivalents) has led to the following qualifications in the listing of their names:

1. Within a given city, if an institution of higher education is comprised of two or more campuses reporting directly to the central administration, each campus is listed separately.
2. In the listing of governmental organizations, Federal as well as non-Federal, the name of the parent department precedes that of the individual component, and the organization is listed as many times within a given city as there are components of the organization receiving grants.
3. If a foundation has been established for the purpose of receiving and administering funds for grants, the name and location of the organization having professional responsibility for the grant are shown rather than the name and location of the foundation. The name of the foundation is indicated in the appendix if it differs materially from the name of the organization.
4. If an association receiving a grant has a fixed national headquarters, the grants are listed at the headquarters location. If however, the association does not have a fixed headquarters, the grants are listed in the city shown for this organization in the Encyclopedia of Associations.

These qualifications do not apply to foreign institutions or to some domestic organizations, because a systematic study of their organizational structure has not been made. Organizations which require a clarifying comment or which appear in more than one geographical location are listed alphabetically in the Appendix.

### *Supplemental Awards*

Only grants made from fiscal year 1975 and 1973 released funds are listed in this publication. Fiscal year 1975 supplemental awards to fiscal year 1975 grants are combined with and reported under the parent grant. However, supplemental grants awarded from fiscal year 1975 funds, or from fiscal year 1973/75 funds, to a parent grant awarded in a previous fiscal year are shown separately; if two or more such supplements were made during fiscal year 1975, these supplements are combined.



## ABBREVIATIONS

The component of the National Institutes of Health supporting a grant is indicated by the code letters preceding the name of that component. These code letters form part of the identification of the grant number in the tables listing individual grants.

<i>Code for supporting component</i>		<i>Abbreviation of supporting component</i>
	Institutes and Research Divisions.....	IRD
AG	National Institute on Aging.....	NIA
AI	National Institute of Allergy and Infectious Diseases.....	NIAID
AM	National Institute of Arthritis, Metabolism, and Digestive Diseases.....	NIAMDD
CA	National Cancer Institute.....	NCI
DE	National Institute of Dental Research.....	NIDR
ES	National Institute of Environmental Health Sciences.	NIEHS
EY	National Eye Institute.....	NEI
GM	National Institute of General Medical Sciences.....	NIHMS
HD	National Institute of Child Health and Human Development.....	NICHHD
HL	National Heart and Lung Institute.....	NHLI
NS	National Institute of Neurological and Communica- tive Disorders and Stroke.....	NINCDS
RR	Division of Research Resources.....	DRR
TW	Fogarty International Center.....	FIC
LM	National Library of Medicine.....	NLM





TABLE 1.--SUMMARY OF NIH TRAINING, CONSTRUCTION, AND MEDICAL LIBRARY GRANTS, BY SUPPORTING COMPONENT, FISCAL YEAR 1975

Supporting Component	Total Training Dollars	Training				Construction Grants		Medical Library Grants	
		Research Training Grants		Fellowships and Traineeships		No.	Dollars	No.	Dollars
		No.	Dollars	No.	Dollars				
Total National Institutes of Health.....	157,693,017	1,748	129,874,321	2,056	27,818,696	12	30,000,000	75	1,469,343
Institutes and research Divisions.....	156,801,828	1,739	128,985,156	2,056	27,816,672	12	30,000,000	--	--
Division of Research Resources.....	434,000	6	385,151	2	48,849	--	--	--	--
Fogarty International Center.....	2,142,147	181	17,776,414	150	2,142,147	--	--	--	--
National Cancer Institute.....	23,117,271	55	3,134,008	373	5,340,857	12	30,000,000	--	--
National Eye Institute.....	4,193,833	241	17,166,795	74	1,059,825	--	--	--	--
National Heart and Lung Institute.....	19,914,666	92	5,795,342	202	2,747,871	--	--	--	--
National Institute of Allergy and Infectious Diseases.....	8,283,796	194	10,864,757	211	2,488,454	--	--	--	--
National Institute of Arthritis, Metabolism, and Digestive Diseases.....	13,594,531	108	9,745,102	191	2,729,774	--	--	--	--
National Institute of Child Health and Human Development.....	11,650,008	72	4,700,227	128	1,904,906	--	--	--	--
National Institute of Dental Research.....	5,452,910	25	2,899,766	58	752,683	--	--	--	--
National Institute of Environmental Health Sciences.....	3,301,216	600	47,260,390	31	401,450	--	--	--	--
National Institute of General Medical Sciences.....	52,603,403	163	9,162,204	407	5,343,013	--	--	--	--
National Institute of Neurological and Communicative Disorders and Stroke.....	12,019,047	2	95,000	229	2,856,843	--	--	--	--
National Institute on Aging.....	95,000	9	889,165	--	--	--	--	--	--
National Library of Medicine.....	891,189	--	--	--	2,024	--	--	75	1,469,343

NOTE 1: Supplemental and supply allowances for an award made in a previous year are not included in the count, although dollars are included. Thus, an organization receiving only a supply allowance will have an entry under dollars but no entry under number.

NOTE 2: For information as to how this table is structured, see Technical Note, p. vii. Also, for comments on organizations, see Appendix.

**Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity, Fiscal Year 1975**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards *		Minority insti- tutions fellow- ship awards		International fellowship awards		Traineeship awards **		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
ALABAMA	2,056	27,818,696	3	15,000	105	1,212,226	62	841,378	6	101,298	150	2,142,147	9	129,125	1,721	23,377,522
	1,982	26,801,347	3	15,000	101	1,172,617	58	794,126	6	101,298	150	2,138,447	9	129,125	1,655	22,450,734
	74	1,017,349			4	39,609	4	47,252				3,700			66	926,788
BIRMINGHAM	12	155,153							1	10,653	1	7,100			10	137,400
UNIVERSITY OF ALABAMA IN BIRMINGHAM																
MOBILE	1	13,400													1	13,400
UNIVERSITY																
UNIVERSITY OF ALABAMA	1	11,500													1	11,500
STATE TOTAL	14	180,053							1	10,653	1	7,100			12	162,300
ARIZONA																
PHOENIX	1	12,800													1	12,800
ST. JOSEPH'S HOSPITAL AND MEDICAL CENTER																

<b>TUCSON</b>											
UNIVERSITY OF ARIZONA.....	12	154,500						1,000		12	153,500
STATE TOTAL .....	13	167,300						1,000		13	166,300
<b>ARKANSAS</b>											
<b>LITTLE ROCK</b>											
UNIVERSITY OF ARKANSAS MEDICAL CENTER.....	2	27,400								2	27,400
STATE TOTAL .....	2	27,400								2	27,400
<b>CALIFORNIA</b>											
<b>BERKELEY</b>											
CALIFORNIA STATE HEALTH AND WELFARE AGENCY-- DEPARTMENT OF HEALTH.....	1	13,100							1	13,100	
GRADUATE THEOLOGICAL UNION.....	1	23,412			1			23,412			
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT BERKELEY.....	44	589,293	6	66,734					2	26,559	496,000
<b>DAVIS</b>											
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT DAVIS .....	28	335,176	2	13,100				1,251	4	37,925	282,900
<b>DUARTE</b>											
CITY OF HOPE MEDICAL CENTER.....	6	75,700							1	11,400	64,300
<b>IRVINE</b>											
UNIVERSITY OF CALIFORNIA SYSTEM--UNIVERSITY OF CALIFORNIA AT IRVINE.....	12	149,812							1	15,412	134,400

\* Includes health science scholars.

\*\* Traineeship awards in this column are those made by the National Institute of Neurological and Communicative Disorders and Stroke only.

\*\*\* Includes Puerto Rico

Note 1: Supplemental and supply allowances for an award made in a previous year are not included in the count, although the dollars are included. Thus an organization receiving only a supply allowance will have an entry under dollars but no entry under number.

NOTE 2: For information as to how this table is structured, see Technical Note, p. vii. Also, for comments on organizations, see Appendix.



**Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity,  
Fiscal Year 1975—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>CALIFORNIA—Con.</b>																
<b>LA JOILA</b>																
SALK INSTITUTE FOR BIOLOGICAL STUDIES.....	3	43,200													3	43,200
SCRIPPS CLINIC AND RESEARCH FOUNDATION.....	13	182,450			1	16,700									12	165,750
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO.....	49	691,440				1,000		2,000			2	27,640			47	660,800
<b>LOMA LINDA</b>																
LOMA LINDA UNIVERSITY.....	1	16,600													1	16,600
<b>LOS ANGELES</b>																
CHILDREN'S HOSPITAL OF LOS ANGELES.....		6,000														6,000
ESTELLE DOHERTY EYE FOUNDATION.....	1	16,200													1	16,200
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES.....	41	562,902			1	16,300	2	36,400			2	32,902			36	477,300
UNIVERSITY OF SOUTHERN CALIFORNIA.....	11	153,391					3	16,267			2	27,024			6	110,100
VETERAN'S ADMINISTRATION WADSWORTH HOSPITAL CENTER.....	1	18,656										5,256			1	13,400
<b>PALO ALTO</b>																
PALO ALTO MEDICAL RESEARCH FOUNDATION.....	1	12,800													1	12,800
<b>PASADENA</b>																
CALIFORNIA INSTITUTE OF TECHNOLOGY.....	33	426,834			4	40,367	1	14,667		1,000					28	370,800
<b>SAN FRANCISCO</b>																
INSTITUTES OF MEDICAL SCIENCES.....	1	13,000													1	13,000
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO.....	55	752,498			3	36,400	2	34,600			5	62,948	1	3,400	44	615,150
UNIVERSITY OF THE PACIFIC.....	1	22,800						1,000							1	21,800

SANTA BARBARA												
UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT SANTA BARBARA	1	22,200								1	22,200	
SANTA CRUZ												
UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT SANTA CRUZ	4	42,000								4	42,000	
SEPULVEDA												
VETERANS ADMINISTRATION HOSPITAL		536			91						445	
STANFORD												
STANFORD UNIVERSITY	52	706,967		5	54,217	2	45,914		4	50,487	556,349	
TORRANCE												
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT-LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL	2	33,300					4,600				28,700	
STATE TOTAL	362	4,910,267		22	244,909	11	180,111		1,000	24	310,653	4,170,194
COLORADO												
BOULDER												
UNIVERSITY OF COLORADO	19	233,375		1	6,875						226,500	
DENVER												
NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER	3	33,200		1	10,900						22,300	
UNIVERSITY OF COLORADO MEDICAL CENTER	21	291,905		2	23,700		1,500		2	20,455	246,000	
FORT COLLINS												
COLORADO STATE UNIVERSITY	5	92,600							1,000		70,650	
STATE TOTAL	48	651,080		4	41,475		1,500		1,000	2	21,200	565,450

**Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity,  
Fiscal Year 1975—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>CONNECTICUT</b>																
<b>FARMINGTON</b>																
UNIVERSITY OF CONNECTICUT HEALTH CENTER.....	9	99,950				1,000	1	6,350							8	92,600
<b>NEW HAVEN</b>																
HASKINS LABORATORIES.....	1	10,000													1	10,000
JOHN B. PERCE FOUNDATION OF CONNECTICUT.....		3,000														3,000
YALE UNIVERSITY.....	56	761,172		1,000	4	54,900		4,700			6	86,372			46	614,200
<b>STORRS</b>																
UNIVERSITY OF CONNECTICUT.....	6	76,400													6	76,400
STATE TOTAL.....	72	950,522		1,000	4	55,900	1	11,050			6	86,372			61	796,200
<b>DELAWARE</b>																
<b>NEWARK</b>																
UNIVERSITY OF DELAWARE.....		6,000														6,000
STATE TOTAL.....		6,000														6,000
<b>DIST OF COL</b>																
<b>WASHINGTON</b>																
AMERICAN NATIONAL RED CROSS.....		1,000				1,000										
CARNEGIE INSTITUTION OF WASHINGTON, D. C.....	1	13,000													1	13,000
CHILDREN'S HOSPITAL NATIONAL MEDICAL CENTER.....	1	13,644					1	13,644								
GEORGE WASHINGTON UNIVERSITY.....	10	120,303									1	15,103			9	105,200
GEORGETOWN UNIVERSITY.....	2	29,250				250			1	15,800					1	13,200
STATE TOTAL.....	14	177,197				1,250	1	13,644	1	15,800	1	15,103			11	131,400

## FLORIDA

### CORAL GABLES

UNIVERSITY OF MIAMI

### GAINESVILLE

STATE UNIVERSITY OF FLORIDA SYSTEM-UNIVERSITY OF FLORIDA

### MIAMI

PAPANICOLAOU CANCER RESEARCH INSTITUTE  
UNIVERSITY OF MIAMI

### TALLAHASSEE

STATE UNIVERSITY OF FLORIDA SYSTEM-FLORIDA STATE UNIVERSITY

STATE TOTAL

## GEORGIA

### ATHENS

UNIVERSITY SYSTEM OF GEORGIA-UNIVERSITY OF GEORGIA

### ATLANTA

ATLANTA UNIVERSITY  
EMORY UNIVERSITY  
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-CENTER FOR DISEASE CONTROL  
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE- REGIONAL OFFICE IV

### AUGUSTA

UNIVERSITY SYSTEM OF GEORGIA-MEDICAL COLLEGE OF GEORGIA

STATE TOTAL

3,000

2 10,123

15,200  
97,400

28,300  
260,423

2 10,123

116,900

13,800  
124,400

10,000

265,100



**Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity, Fiscal Year 1975—Continued**

[illegible]



STATE TOTAL:

## LOUISIANA

### BATON ROUGE

LOUISIANA STATE UNIVERSITY SYSTEM-LOUISIANA  
STATE UNIVERSITY AT BATON ROUGE.....

3,000

### NEW ORLEANS

LOUISIANA STATE UNIVERSITY SYSTEM-LOUISIANA  
STATE UNIVERSITY MEDICAL CENTER AT NEW  
ORLEANS.....

31,200

TULANE UNIVERSITY.....

34,200

STATE TOTAL.....

1

4

5

18,462

65,837

87,299

17,583

17,583

17,583

76

76

76

2,000

2,000

2,000

18,386

15,054

33,440

3,000

31,200

34,200

## MAINE

### BAR HARBOR

JACKSON LABORATORY.....

27,700

### SALSBURY COVE

MOUNT DESERT ISLAND BIOLOGICAL LABORATORY.....

27,700

STATE TOTAL.....

2

1

3

12,500

12,500

12,500

1

1

1

12,500

12,500

12,500

1

1

1

27,700

27,700

27,700

## MARYLAND

### BALTIMORE

CARNEGIE INSTITUTION OF WASHINGTON, D. C.....  
JOHNS HOPKINS HOSPITAL.....  
JOHNS HOPKINS UNIVERSITY.....

51,000

3,000

624,938

52,000

3,000

808,871

1,000

49,950

49,950

1,000

49,950

49,950

1,000

49,950

49,950

1,000

49,950

49,950

51,000

3,000

624,938



**Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity,  
Fiscal Year 1975—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>MARYLAND—Con.</b>																
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-NATIONAL INSTITUTES OF HEALTH .....	4	44,372			1	11,947					1	12,425			2	20,000
UNIVERSITY OF MARYLAND SYSTEM-UNIVERSITY OF MARYLAND AT BALTIMORE .....	1	24,118								1,000	1	23,118				
<b>BETHESDA</b>																
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-NATIONAL INSTITUTES OF HEALTH .....	98	1,233,566			3	29,845	1	9,936	157		29	453,780			65	739,848
U.S. DEPARTMENT OF THE NAVY-NATIONAL NAVAL MEDICAL CENTER .....	1	11,800			1	10,800		1,000								
<b>CATONSVILLE</b>																
UNIVERSITY OF MARYLAND SYSTEM-UNIVERSITY OF MARYLAND BALTIMORE COUNTY CAMPUS .....	1	11,500													1	11,500
<b>COLLEGE PARK</b>																
UNIVERSITY OF MARYLAND SYSTEM-UNIVERSITY OF MARYLAND COLLEGE PARK CAMPUS .....	2	30,800					1	20,800							1	10,000
<b>ROCKVILLE</b>																
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-ALCOHOL, DRUG ABUSE, AND MENTAL HLTH ADMIN .....	6	80,411				548					2	35,163			4	44,700
STATE TOTAL .....	177	2,300,438			9	93,718	6	82,686		1,157	39	593,616	2	24,275	121	1,504,986

## MASSACHUSETTS

### AMHERST

AMHERST COLLEGE.....	1	10,800																		1	10,800
UNIVERSITY OF MASSACHUSETTS SYSTEM- UNIVERSITY OF MASSACHUSETTS AT AMHERST.....	2	32,200								1	17,700									1	14,500

### BOSTON

BETH ISRAEL HOSPITAL.....	1	12,800																		1	12,800
BOSTON BIOMEDICAL RESEARCH INSTITUTE.....	2	24,600								1	1,800									1	22,800
BOSTON UNIVERSITY.....	9	137,905								1	15,600					1,000			1	7	108,200
CENTER FOR BLOOD RESEARCH.....	2	31,000																		2	31,000
CHILDREN'S HOSPITAL MEDICAL CENTER.....	6	90,450								1	8,850					14,600				4	67,000
EYE RESEARCH INSTITUTE OF RETINA FOUNDATION.....	2	50,400								2						50,400					
FORSYTH DENTAL CENTER.....	1	10,000																			
HARVARD UNIVERSITY.....	81	1,053,501								3	25,767					8,082			1,000	10	110,818
JOSLIN DIABETES FOUNDATION.....	2	29,200																		2	29,200
MASSACHUSETTS EYE AND EAR INFIRMARY.....	3	46,000																	1	2	32,400
MASSACHUSETTS GENERAL HOSPITAL.....	11	163,916								1	8,000					1,166				9	137,400
NEW ENGLAND MEDICAL CENTER HOSPITAL.....	4	61,100														1,000				4	60,100
PETER BENT BRIGHAM HOSPITAL.....	9	139,810																	1	8	125,000
SIDNEY FARBER CANCER CENTER.....	1	13,800																		1	13,800
TUFTS UNIVERSITY.....	10	142,250																	2	8	113,300

### CAMBRIDGE

HARVARD UNIVERSITY.....	37	507,790																		35	469,800
MASSACHUSETTS INSTITUTE OF TECHNOLOGY.....	43	548,079								4	600									36	468,200

### SHREWSBURY

WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY.....	2	30,400																		2	29,400
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### WALTHAM

BRANDEIS UNIVERSITY.....	14	178,717								1	13,200									13	165,517
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### WOODS HOLE

WOODS HOLE OCEANOGRAPHIC INSTITUTION.....	1	11,800								1	11,800										
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### WORCESTER

UNIVERSITY OF MASSACHUSETTS SYSTEM- UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL.....	5	52,907								1	8,407									4	44,500
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**Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity, Fiscal Year 1975—Continued**

[illegible]

ROCHESTER												
MAYO FOUNDATION.....	10	143,014				1,000			1	15,814	9	126,200
MAYO FOUNDATION-MAYO MEDICAL SCHOOL .....	3	44,576							1	14,576	2	30,000
SAINT PAUL												
UNIVERSITY OF MINNESOTA.....	4	57,100				1,000					4	56,100
STATE TOTAL .....	39	607,132		1		16,400	2	40,100	3	61,803	33	488,829
MISSISSIPPI												
JACKSON												
UNIVERSITY OF MISSISSIPPI MEDICAL CENTER .....	1	14,441						1,441			1	13,000
UNIVERSITY												
UNIVERSITY OF MISSISSIPPI .....		1,000						1,000				
STATE TOTAL .....	1	15,441						2,441			1	13,000
MISSOURI												
COLUMBIA												
UNIVERSITY OF MISSOURI SYSTEM-UNIVERSITY OF MISSOURI AT COLUMBIA .....	3	37,790		2		26,290					1	11,500
KANSAS CITY												
ST. LUKE'S HOSPITAL .....	1	2,457							1	2,457		
SAINT LOUIS												
JEWISH HOSPITAL OF ST. LOUIS .....		250				250						
ST. LOUIS UNIVERSITY .....	4	49,400									4	49,400
UNIVERSITY CITY												
WASHINGTON UNIVERSITY .....	28	384,386		2		13,275	1	14,000	1	13,411	24	343,700
STATE TOTAL .....	36	474,283		4		39,815	1	14,000	2	15,868	29	404,600



Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellow-ship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>NEBRASKA</b>  OMAHA UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER.....  STATE TOTAL .....	2	21,900													2	21,900
	2	21,900													2	21,900
<b>NEW HAMPSHIRE</b>  DURHAM UNIVERSITY OF NEW HAMPSHIRE SYSTEM— UNIVERSITY OF NEW HAMPSHIRE.....  HANOVER DARTMOUTH COLLEGE.....  STATE TOTAL .....	2	24,200			1	14,200									1	10,000
	3	49,846									2	27,846			1	22,000
	5	74,046			1	14,200					2	27,846			2	32,000
<b>NEW JERSEY</b>  NEWARK RUTGERS UNIVERSITY.....  NEW BRUNSWICK RUTGERS UNIVERSITY.....	1	14,200													1	14,200
	1	13,800													1	13,800

## PISCATAWAY

COLLEGE OF MEDICINE AND DENTISTRY OF NEW  
JERSEY--RUTGERS MEDICAL SCHOOL.....

## PRINCETON

PRINCETON UNIVERSITY.

STATE TOTAL...

## NEW MEXICO

## ALBUQUERQUE

UNIVERSITY OF NEW MEXICO.

## UNIVERSITY PARK

NEW MEXICO STATE UNIVERSITY..

STATE TOTAL...

## NEW YORK

## ALBANY

STATE UNIVERSITY OF NEW YORK AT ALBANY...

UNION COLLEGE AND UNIVERSITY SYSTEM--ALBANY

MEDICAL COLLEGE.....

**BINGHAMTON**

STATE UNIVERSITY OF NEW YORK AT BINGHAMTON...

**BUFFALO**

CHILDREN'S HOSPITAL

NEW YORK STATE DEPARTMENT OF HEALTH--

ROSWELL PARK MEMORIAL INSTITUTE

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

HYGIENE-RESEARCH INSTITUTE ON ALCOHOLISM

STATE UNIVERSITY OF NEW YORK AT BUFFALO

[illegible]

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority insti- tutions fellow- ship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>NEW YORK—Con.</b>  STATE UNIVERSITY OF NEW YORK-COLLEGE AT BUFFALO  <b>COLD SPRING HARBOR</b> COLD SPRING HARBOR LABORATORY  <b>IITHACA</b> CORNELL UNIVERSITY.  <b>NEW YORK</b> CITY UNIVERSITY OF NEW YORK-BROOKLYN COLLEGE CITY UNIVERSITY OF NEW YORK-GRADUATE SCHOOL AND UNIVERSITY CENTER CITY UNIVERSITY OF NEW YORK-MOUNT SINAI SCHOOL OF MEDICINE COLUMBIA UNIVERSITY COMMUNITY BLOOD COUNCIL OF GREATER NEW YORK CORNELL UNIVERSITY MEDICAL CENTER NEW YORK CITY HEALTH SERVICES ADMINISTRATION-PUBLIC HEALTH RESEARCH INSTITUTE OF CITY OF N Y NEW YORK MEDICAL COLLEGE NEW YORK UNIVERSITY POLYTECHNIC INSTITUTE OF NEW YORK ROCKEFELLER UNIVERSITY SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH SOCIETY OF THE NEW YORK HOSPITAL STATE UNIVERSITY OF NEW YORK-DOWNSTATE MEDICAL CENTER YESHIVA UNIVERSITY	1	10,000													1	10,000
	2	23,400													2	23,400
	28	370,700	1	1,800	2	18,300		1,000		1,000					25	348,600
	2	26,000													2	26,000
	1	13,200													1	13,200
	7	82,950						250		1,000					7	81,700
	31	390,839			2	13,367		3,270			1	20,869	1	13,350	27	339,983
	1	6,100									1	6,100			11	154,300
	11	154,300														
	3	34,200													3	34,200
	1	18,600										3,200			1	15,400
	12	155,638						2,350			1	11,588			11	141,700
		1,000						1,000								
	31	396,840				1,000					3	26,440			28	369,400
	6	98,400													6	98,400
	1	5,319									1	5,319				
	2	14,000						1	4,000						1	10,000
	24	339,500						1	13,200						23	326,300

<b>ROCHESTER</b>									
EASTMAN DENTAL CENTER.....	3,000								3,000
GENESEE HOSPITAL.....	1	13,200							13,200
UNIVERSITY OF ROCHESTER.....	16	238,807	1	14,600			2	38,107	13
<b>SARANAC LAKE</b>									
TRUDEAU INSTITUTE.....	2	22,000							2
<b>STONY BROOK</b>									
STATE UNIVERSITY OF NEW YORK AT STONY BROOK..	8	94,325			1	7,725			7
<b>SYRACUSE</b>									
STATE UNIVERSITY OF NEW YORK-UPSTATE									
MEDICAL CENTER.....	2	31,024				2,024			2
SYRACUSE UNIVERSITY.....	3	31,100				3			3
<b>TROY</b>									
RENSELAER POLYTECHNIC INSTITUTE.....	1	16,200							1
<b>UPTON</b>									
ASSOCIATED UNIVERSITIES-BROOKHAVEN NATIONAL									
LABORATORY.....	4	56,000							4
STATE TOTAL.....	224	2,992,742	1	1,800	7	71,867	4	48,019	202
						2,000	9	111,623	1
									13,350
<b>NORTH CAROLINA</b>									
<b>CHAPEL HILL</b>									
UNIVERSITY OF NORTH CAROLINA SYSTEM--									
UNIVERSITY OF NORTH CAROLINA AT CHAPEL									
HILL.....	30	412,971				7,021		1,000	1
								2,000	19,350
<b>DURHAM</b>									
DUKE UNIVERSITY.....	33	457,299				5,300	1	1,016	1
								15,533	13,850
									31
									29
									383,600
									2,744,083
									56,000
									16,200
									29,000
									31,100
									86,600
									22,000
									3,000
									13,200
									186,100



[illegible]

<b>OKLAHOMA CITY</b>									
OKLAHOMA MEDICAL RESEARCH FOUNDATION									
UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER	2	1,000						1,000	
		24,100							24,100
<b>STILLWATER</b>									
OKLAHOMA STATE UNIVERSITY	1	11,500							11,500
STATE TOTAL	4	46,600						1,000	45,600
<b>OREGON</b>									
<b>CORVALLIS</b>									
OREGON STATE HIGHER EDUCATION SYSTEM--									
OREGON STATE UNIVERSITY	4	58,000	1	13,200					44,800
<b>EUGENE</b>									
OREGON STATE HIGHER EDUCATION SYSTEM--									
UNIVERSITY OF OREGON	6	76,683	1	2,983	1	13,500			60,200
<b>PORTLAND</b>									
OREGON STATE HIGHER EDUCATION SYSTEM--									
UNIVERSITY OF OREGON HEALTH SCIENCES CENTER	10	145,485				1,000		2	109,500
STATE TOTAL	20	280,168	2	16,183	1	14,500		2	214,500
<b>PENNSYLVANIA</b>									
<b>BETHLEHEM</b>									
LEHIGH UNIVERSITY	1	10,000							10,000
<b>HERSHEY</b>									
PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER	7	77,700			1	8,500		1	54,600

**Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity,  
Fiscal Year 1975—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>PENNSYLVANIA—Con.</b>																
<b>PHILADELPHIA</b>																
CHILDREN'S HOSPITAL OF PHILADELPHIA.....	2	31,200						1,000							2	30,200
DREXEL UNIVERSITY.....	1	14,250					1	14,250								
HAHNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA.....	1	13,787														
INSTITUTE FOR CANCER RESEARCH.....	8	100,100														
LANEKENAU HOSPITAL.....	1	13,400			1	12,200					1	13,787			7	87,900
MEDICAL COLLEGE OF PENNSYLVANIA.....	1	13,400													1	13,400
PENNSYLVANIA COLLEGE OF OPTOMETRY.....	1	16,000													1	16,000
PENNSYLVANIA STATE DEPARTMENT OF PUBLIC WELFARE—EASTERN PENNSYLVANIA PSYCHIATRIC INSTITUTE.....	1	13,000													1	13,000
PHILADELPHIA GENERAL HOSPITAL.....	1	14,201									1	14,201			1	11,500
TEMPLE UNIVERSITY.....	1	11,500													8	96,300
THOMAS JEFFERSON UNIVERSITY.....	9	99,780					1	3,480							4	51,500
UNIVERSITY OF PENNSYLVANIA.....	4	51,500													42	563,667
WILLS EYE HOSPITAL.....	46	629,607					1,000	63,940								
WISTAR INSTITUTE OF ANATOMY AND BIOLOGY.....	1	1,000					1,000	1,000							1	22,000
	1	22,000														
<b>PITTSBURGH</b>																
CARNEGIE-MELLON UNIVERSITY.....	1	13,000													1	13,000
CHILDREN'S HOSPITAL OF PITTSBURGH.....	1	14,200													1	14,200
MONTEFIORE HOSPITAL.....	1	16,600													1	16,600
UNIVERSITY OF PITTSBURGH.....	16	231,282					1,000	15,100			1	14,982			14	200,200
<b>UNIVERSITY PARK</b>																
PENNSYLVANIA STATE UNIVERSITY.....	1	10,800													1	10,800
STATE TOTAL.....	105	1,404,907			1	14,200	8	107,270			1,000	4			92	1,224,867

## RHODE ISLAND

### PROVIDENCE

BROWN UNIVERSITY .....	3	45,200																	3	45,200
STATE TOTAL .....	3	45,200																	3	45,200

## SOUTH CAROLINA

### CHARLESTON

MEDICAL UNIVERSITY OF SOUTH CAROLINA .....	3	40,555															1	14,455	2	26,100
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### COLUMBIA

UNIVERSITY OF SOUTH CAROLINA .....	3	39,000																	3	39,000
STATE TOTAL .....	6	79,555															1	14,455	5	65,100

## TENNESSEE

### KNOXVILLE

UNIVERSITY OF TENNESSEE SYSTEM-UNIVERSITY OF TENNESSEE AT KNOXVILLE .....	5	59,267			1														4	47,867
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### MEMPHIS

ST. JUDE CHILDREN'S RESEARCH HOSPITAL .....	2	32,600																	2	32,600
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### NASHVILLE

MEHARRY MEDICAL COLLEGE .....	2	24,164																	1	6,900
VANDERBILT UNIVERSITY .....	15	201,652			3								1,000						10	137,700

### OAK RIDGE

OAK RIDGE ASSOCIATED UNIVERSITIES .....	2	44,900																	2	39,900
STATE TOTAL .....	26	362,583			4								1,000						19	264,967



Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards		
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	
TEXAS	AUSTIN UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN	10	133,100			1	12,800								9	120,300	
		COLLEGE STATION															
		TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY															
	DALLAS	2	30,900					2	30,900							3,000	
		13	183,110									1	15,010			12	168,100
	EL PASO	1	10,800													1	10,800
		8	96,792									1	14,992			7	81,800
	GALVESTON UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON	25	373,421			1	11,800	1	15,500			2	33,621			21	312,500
		4	51,600								1,000					4	50,600
		1	13,000													1	13,000
HOUSTON BAYLOR COLLEGE OF MEDICINE RICE UNIVERSITY UNIVERSITY OF HOUSTON UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER	9	147,838									2	39,738			7	108,100	
	3	51,100			1	12,500									2	38,600	

**SAN ANTONIO**

UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF  
TEXAS HEALTH SCIENCE CENTER AT SAN  
ANTONIO.

36.400

3

STATE TOTAL...

943,200

67

# UTAH

**SALT LAKE CITY**

UTAH STATE HIGHER EDUCATION SYSTEM--  
UNIVERSITY OF UTAH .....

150,300

11

STATE TOTAL...

150,300

11

**VERMONT**

## BURLINGTON

UNIVERSITY OF VERMONT AND STATE  
AGRICULTURAL COLLEGE.....

13,800

1

STATE TOTAL...

13,800

1

**VIRGINIA**

## CHARLOTTESVILLE

UNIVERSITY OF VIRGINIA...

280,800

20

## RICHMOND

VIRGINIA COMMONWEALTH UNIVERSITY..

37,000

3

STATE TOTAL...

317,800

23

**Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity,  
Fiscal Year 1975—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>WASHINGTON</b>																
<b>PULLMAN</b>		6,000														6,000
WASHINGTON STATE UNIVERSITY																
<b>SEATTLE</b>	44	626,543			2	23,600		2,000			2	31,043			40	569,500
UNIVERSITY OF WASHINGTON																
STATE TOTAL	44	632,543			2	23,600		2,000			2	31,043			40	575,500
<b>WEST VIRGINIA</b>																
<b>MORGANTOWN</b>	2	16,965									1	6,165			1	10,800
WEST VIRGINIA UNIVERSITY																
STATE TOTAL	2	16,965									1	6,165			1	10,800
<b>WISCONSIN</b>																
<b>MADISON</b>	46	590,326	1	5,500	6	58,208	1	13,000	1	9,184	1	15,434			36	489,000
UNIVERSITY OF WISCONSIN SYSTEM-UNIVERSITY OF WISCONSIN-MADISON																
<b>MILWAUKEE</b>	3	30,167													1	13,000
MARQUETTE UNIVERSITY																
MEDICAL COLLEGE OF WISCONSIN	2	34,032						17,167			1	18,032			1	16,000
STATE TOTAL	51	654,525	1	5,500	6	58,208	3	30,167	1	9,184	2	33,466			38	518,000

<b>PUERTO RICO</b>												
<b>SAN JUAN</b>												
UNIVERSITY OF PUERTO RICO SYSTEM-UNIVERSITY	1	6,900										1
OF PUERTO RICO MEDICAL SCIENCES CAMPUS.....												
STATE TOTAL.....	1	6,900										1
<b>AUSTRALIA</b>												
<b>CANBERRA</b>												
AUSTRALIAN NATIONAL UNIVERSITY.....	1	17,350										1
<b>MELBOURNE</b>												
ROYAL MELBOURNE HOSPITAL.....		6,273										
UNIVERSITY OF MELBOURNE.....	1	17,500	5,300									1
STATE TOTAL.....	2	41,123	5,300									2
<b>AUSTRIA</b>												
<b>INNSBRUCK</b>												
UNIVERSITY OF INNSBRUCK.....	1	11,998										1
STATE TOTAL.....	1	11,998										1
<b>CANADA</b>												
<b>CALGARY</b>												
UNIVERSITY OF CALGARY.....		3,244										



Table 2.—Summary of NIH Traineeships and Fellowships by Area, Organization, and Activity,  
Fiscal Year 1975—Continued

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellow-ship awards		International fellowship awards		Traineeship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>CANADA—Con.</b>																
<b>GUELPH</b>																
UNIVERSITY OF GUELPH		3,700									3,700					
<b>HAMILTON</b>																
MCMASTER UNIVERSITY	1	10,109													1	10,109
<b>LONDON</b>																
UNIVERSITY OF WESTERN ONTARIO		2,900				2,900										
<b>MONTREAL</b>																
MCGILL UNIVERSITY	2	23,200													2	23,200
<b>SAINT JOHNS</b>																
MEMORIAL UNIVERSITY OF NEWFOUNDLAND		3,000														3,000
<b>SHERBROOKE</b>																
UNIVERSITY OF SHERBROOKE	1	13,800													1	13,800
<b>TORONTO</b>																
UNIVERSITY OF TORONTO	2	23,200													2	23,200
<b>VANCOUVER</b>																
UNIVERSITY OF BRITISH COLUMBIA	3	36,822													3	36,822
STATE TOTAL	9	119,975				2,900					3,700				9	113,375
<b>DENMARK</b>																
<b>AARHUS</b>																
UNIVERSITY OF AARHUS	1	13,705													1	13,705

<b>COPENHAGEN</b>									
UNIVERSITY OF COPENHAGEN	1	13,986							13,986
<b>ODENSE</b>									
ODENSE UNIVERSITY	2	14,100	2	14,100					
STATE TOTAL	4	41,791	2	14,100					27,691
<b>FRANCE</b>									
<b>GIF-SUR-YVETTE</b>									
NATIONAL CENTER FOR SCIENTIFIC RESEARCH-GIF-SUR-YVETTE LABORATORIES	1	15,800							15,800
<b>PARIS</b>									
PASTEUR INSTITUTE	2	28,033		275					27,758
<b>STRASBOURG</b>									
LOUIS PASTEUR UNIVERSITY		800							800
NATIONAL CENTER FOR SCIENTIFIC RESEARCH-STRASBOURG MACROMOLECULAR LABORATORIES	1	14,071							14,071
<b>VILLEJUIF</b>									
GUSTAVE ROUSSY INSTITUTE		1,000					1,000		
STATE TOTAL	4	59,704		275			1,000		58,429
<b>GERMANY, FED R</b>									
<b>GIESSEN</b>									
IUSTIUS LIEBIG UNIVERSITY OF GIESSEN	1	11,500							11,500

[illegible]

## JAPAN

### KYOTO

KYOTO UNIVERSITY

500

500

STATE TOTAL

500

500

## NETHERLANDS

### AMSTERDAM

UNIVERSITY OF AMSTERDAM

15,200

15,200

### SOESTERBERG

NETHERLANDS CENTRAL ORGANIZATION TWO

196

196

### UTRECHT

STATE UNIVERSITY OF UTRECHT

7,000

7,000

1

STATE TOTAL

22,396

7,000

1

15,396

## NORWAY

### BERGEN

UNIVERSITY OF BERGEN

82

82

### OSLO

UNIVERSITY OF OSLO

10,000

10,000

STATE TOTAL

10,082

82

1

10,000

## SWEDEN

### GOTHENBURG

GOTHENBURG UNIVERSITY

10,800

10,800



32

## UNITED KINGDOM

### BRISTOL

UNIVERSITY OF BRISTOL .....

13,916

1

13,916

### BUCKSBURN

ROWETT RESEARCH INSTITUTE .....

14,034

1

14,034

### CAMBRIDGE

MEDICAL RESEARCH COUNCIL-APPLIED

PSYCHOLOGY UNIT .....

1,000

1,000

1,000

MEDICAL RESEARCH COUNCIL-DUNN NUTRITIONAL

LABORATORY .....

16,200

1

16,200

MEDICAL RESEARCH COUNCIL-LABORATORY OF

MOLECULAR BIOLOGY .....

21,900

2

21,900

STRANGWAYS RESEARCH LABORATORY .....

14,756

1

14,756

UNIVERSITY OF CAMBRIDGE .....

74,643

5

56,143

### EDINBURGH

UNIVERSITY OF EDINBURGH .....

35,988

3

24,588

### GLASGOW

UNIVERSITY OF GLASGOW .....

25,773

2

25,773

### HARROW

CLINICAL RESEARCH CENTER .....

1,000

1,000

1,000

### LONDON

IMPERIAL CANCER RESEARCH FUND .....

31,237

1

31,237

MEDICAL RESEARCH COUNCIL .....

44,027

3

30,788

ROYAL COLLEGE OF SURGEONS OF ENGLAND .....

10,650

1

10,650

UNIVERSITY OF LONDON .....

87,281

5

81,981

### OXFORD

RADCLIFFE INFIRMARY .....

23,701

2

23,701

UNITED OXFORD HOSPITALS .....

3,000

3

3,000

UNIVERSITY OF OXFORD .....

30,847

3

29,513



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975**

Program director	General area of training	Grant number	Dollars
TOTAL 1,748 GRANTS.....			129,874,321

## ALABAMA

### BIRMINGHAM

#### UNIVERSITY OF ALABAMA IN BIRMINGHAM ZIP CODE 35294

ACTON, RONALD T.....	PATHOLOGY OF MEMBRANES AND ORGANELLES.....	5T22 GM00130-02	66,798
ALFORD, CHARLES A, JR.....	PERINATAL INFECTIONS AND IMMUNITY.....	5T01 HD00413-04	102,673
ANDREOLI, THOMAS E.....	PHYSIOLOGY AND PATHOLOGY OF TRANSPORT PROCESSES.....	1T32 GM07195-01	73,973
ANDREOLI, THOMAS E.....	BASIC AND CLINICAL NEPHROLOGY.....	5T01 HL05951-04	70,789
BOSHELL, BURIS R.....	METABOLISM AND ENDOCRINOLOGY.....	5T01 AM05053-20	43,478
CURTISS, ROY, III.....	MOLECULAR, CELLULAR AND MEDICAL GENETICS.....	1T32 GM07090-01	54,900
CURTISS, ROY, III.....	MOLECULAR CELL BIOLOGY.....	1T32 GM07164-01	63,781
HALLENBECK, GEORGE A.....	CLINICAL SURGERY.....	5T01 GM01924-08	106,568
HIRSCHOWITZ, BASIL I.....	GASTROENTEROLOGY.....	5T01 AM05286-15	61,859
JAMES, THOMAS N.....	MEDICAL CARDIOLOGY.....	5T01 HL05737-09	135,382
MACY, JOSIAH, JR.....	COMPUTER AND INFORMATION SCIENCE IN MEDICINE.....	5T01 LM00154-04	155,556
MENAKER, LEWIS.....	DENTAL AND BIOLOGICAL SCIENCE.....	5T01 DE00007-19	40,532
NAVIA, JUAN M.....	CLINICAL DENTISTRY.....	5T01 DE00136-11	31,898
NAVIA, JUAN M.....	NUTRITION AND ORAL HEALTH.....	1T32 DE07020-01	51,476
RODEN, LENNART.....	BIOCHEMISTRY AND IMMUNOLOGY OF JOINTS, BONE AND SKIN.....	1T32 AM07069-01	39,057
ORGANIZATION TOTAL	15	1,098,720	

### TUSKEGEE INSTITUTE

#### TUSKEGEE INSTITUTE ZIP CODE 36088

BOWIE, WALTER C.....	HEALTH RELATED SCIENCES.....	5T01 GM02264-02	91,137
ORGANIZATION TOTAL	1	91,137	

### UNIVERSITY

#### UNIVERSITY OF ALABAMA ZIP CODE 35406

ELLIS, NORMAN R.....	MENTAL RETARDATION.....	5T01 HD00124-10	65,065
ORGANIZATION TOTAL	1	65,065	
STATE TOTAL	17	1,254,922	

## ARIZONA

### TEMPE

#### ARIZONA STATE UNIVERSITY ZIP CODE 85281

WOOLF, CHARLES M.....	GENETICS.....	5T01 GM01433-08	25,311
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NOTE: Grants are listed according to the State or country and city of the component part of the organization professionally responsible for the work (see Technical Note, p. vii). If an organization appears in more than one geographic location or requires a clarifying comment, appropriate annotations have been made in the Appendix.



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>ARIZONA—Con.</b>			
ORGANIZATION TOTAL	1	25,311	
<b>TUCSON</b>			
<b>UNIVERSITY OF ARIZONA      ZIP CODE 85721</b>			
BERNSTEIN, HARRIS.....	MOLECULAR AND CELLULAR ASPECTS OF BIOLOGICAL FUNCTION.....	1T32 GM07239-01	38,829
BRESSLER, RUBIN.....	CLINICAL PHARMACOLOGY.....	5T22 GM00071-02	48,940
HANAHAN, DONALD.....	BIOCHEMISTRY.....	5T01 GM01982-07	53,472
JOHNSON, PAUL C.....	PHYSIOLOGY.....	5T01 HL05884-05	65,137
SIBLEY, WILLIAM A.....	NEUROLOGY.....	5T01 NS05710-08	20,550
ORGANIZATION TOTAL	5	226,928	
STATE TOTAL	6	252,239	
<b>ARKANSAS</b>			
<b>LITTLE ROCK</b>			
<b>UNIVERSITY OF ARKANSAS MEDICAL CENTER      ZIP CODE 72201</b>			
LUCY, DENNIS D, JR.....	NEUROLOGY.....	5T01 NS10062-08	44,428
WESTBROOK, KENT C.....	CLINICAL CANCER.....	5T12 CA08163-02	99,162
WILSON, RALPH.....	OPHTHALMOLOGY.....	3T01 EY00059-07S1	7,084
WYNN, JAMES O.....	METABOLISM.....	5T01 AM05635-07	68,577
ORGANIZATION TOTAL	4	219,251	
STATE TOTAL	4	219,251	
<b>CALIFORNIA</b>			
<b>BERKELEY</b>			
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY—DEPARTMENT OF HEALTH      ZIP CODE 94704</b>			
LENNETTE, EDWIN H.....	MICROBIOLOGY.....	5T01 AI00457-12	52,598
ORGANIZATION TOTAL	1	52,598	
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT BERKELEY      ZIP CODE 94720</b>			
BRIGGS, GEORGE M.....	EXPERIMENTAL NUTRITIONAL SCIENCES.....	5T01 GM01188-12	69,652
DAVIS, JUDITH B.....	DEMOGRAPHY.....	5T01 HD00375-11	49,252
FOGEL, SEYMOUR.....	GENETICS.....	5T01 GM00367-16	30,537
FOGEL, SEYMOUR.....	GENETICS.....	1T32 GM07127-01	96,026
FOSTER, GEORGE M.....	ANTHROPOLOGY.....	5T01 GM01224-12	159,451
KOSHLAND, DANIEL E, JR.....	BIOCHEMISTRY.....	5T01 GM00031-18	244,568
LAWRENCE, JOHN H.....	NUCLEAR MEDICINE.....	5T01 GM01752-09	65,622
LEWIS, EDWIN R.....	BIOMEDICAL ENGINEERING.....	5T01 GM01418-11	29,309
MACEY, ROBERT I.....	PHYSICAL BIOCHEMISTRY.....	5T01 GM01021-13	99,929
MADIN, STEWART H.....	INFECTIOUS DISEASES.....	5T01 AI00332-07	71,288
MARG, ELWIN.....	PHYSIOLOGICAL OPTICS.....	5T01 EY00076-04	53,364
MARGEN, SHELDON.....	HUMAN NUTRITION.....	5T01 AM05511-05	27,242
MEL, HOWARD C.....	BIOPHYSICS.....	5T01 GM00829-14	160,258
MESSINGER, POWER S.....	ENTOMOLOGY AND PARASITOLOGY.....	5T01 AI00218-14	85,250
MUSSEN, PAUL H.....	DEVELOPMENTAL PSYCHOLOGY.....	5T01 HD00153-07	48,409
NANDI, SATYABRATA.....	EXPERIMENTAL BIOLOGY OF CANCER AND ALLIED AREAS.....	5T01 CA05045-17	51,503
NANDI, SATYABRATA.....	THE EXPERIMENTAL BIOLOGY OF CANCER AND ALLIED AREAS.....	1T32 CA09041-01	162,817
POSTMAN, LEO J.....	PSYCHOLOGY.....	5T01 GM01207-12	73,485
SCHACHMAN, HOWARD K.....	MOLECULAR BIOLOGY.....	5T01 GM01389-11	94,032

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
SHORE, BERNARD	NUTRITION IN HEART AND VASCULAR DISEASE	1T32 HL07058-01	35,951
STENT, GUNTHER S.	NEUROBIOLOGY	1T32 GM07048-01	36,909
SYME, S LEONARD	EPIDEMIOLOGY	5T01 GM00008-19	98,345
WINKELSTEIN, WARREN, JR	CANCER EPIDEMIOLOGY	5T01 CA05302-02	84,774
WOFSY, LEON	IMMUNOLOGY	1T32 CA09179-01	187,771
ORGANIZATION TOTAL	24	2,115,744	
<b>DAVIS</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT DAVIS		ZIP CODE 95616	
ALLARD, ROBERT W	GENETICS	5T01 GM00701-15	87,450
CROSS, CARROLL E	PULMONARY DISEASES	1T32 HL07013-01	57,254
DOI, ROY H	BIOCHEMISTRY	5T01 GM00119-17	138,979
DUNGWORTH, DONALD L	COMPARATIVE PATHOLOGY	5T01 GM00537-15	57,949
GESCHWIND, IRVING I	PHYSIOLOGY	5T01 GM01934-07	63,833
HURLEY, LUCILLE S	NUTRITION IN RELATION TO PROBLEMS OF ORAL BIOLOGY	1T32 DE07001-01	54,253
INGRAHAM, JOHN L	MICROBIOLOGY	5T01 GM01041-13	59,620
KANEKO, JIRO J	VETERINARY CLINICAL PATHOLOGY	5T01 GM00633-15	62,575
KILGORE, WENDELL W	ENVIRONMENTAL TOXICOLOGY	5T01 ES00125-08	104,724
LEWIS, JERRY P	HEMATOLOGY	5T01 AM05672-05	28,164
MASON, DEAN T	CARDIOVASCULAR MEDICINE	5T01 HL05901-05	177,336
OSEBOLD, JOHN W	MICROBIOLOGY	5T01 GM00762-13	45,363
WELLINGS, SEFTON R	COMPARATIVE TUMOR BIOLOGY	5T01 CA05245-06	146,250
ORGANIZATION TOTAL	13	1,083,750	
<b>IRVINE</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT IRVINE		ZIP CODE 92664	
GRANGER, GALE A	CARCINOGENESIS	1T32 CA09054-01	69,136
SCHNEIDERMAN, HOWARD A	DEVELOPMENTAL MECHANISMS UNDERLYING CONGENITAL DEFECTS	1T32 HD07029-01	48,821
SYIPHERD, PAUL S	MOLECULAR BASIS OF IMMUNE AND INFECTIOUS DISEASES	5T01 AI00444-04	37,180
SYIPHERD, PAUL S	REGULATION OF BIOLOGICAL PROCESSES	1T32 GM07134-01	45,025
SYIPHERD, PAUL S	INFECTIOUS AGENTS AND DISEASE PROCESSES	1T32 GM07307-01	32,548
TILLES, JEREMIAH G	VIRAL DISEASES	5T01 AI00466-02	26,087
WARNER, ROBERT C	MOLECULAR AND CELLULAR BIOLOGY	5T01 GM02063-05	41,680
WARNER, ROBERT C	CELLULAR AND MOLECULAR BIOLOGY	1T32 GM07311-01	44,827
ORGANIZATION TOTAL	8	345,304	
<b>LA JOLLA</b>			
SALK INSTITUTE FOR BIOLOGICAL STUDIES		ZIP CODE 92037	
COHN, MELVIN	IMMUNOBIOLOGY	5T01 AI00430-05	83,264
ORGANIZATION TOTAL	1	83,264	
SCRIPPS CLINIC AND RESEARCH FOUNDATION		ZIP CODE 92037	
DIXON, FRANK J	IMMUNOPATHOLOGY	5T01 GM00683-15	173,524
HUENNEKENS, FRANK M	BIOCHEMISTRY	1T32 AM07097-01	58,586
SPIZIZEN, JOHN	MICROBIOLOGY	1T01 GM02293-01	73,967
TAN, ENG M	ALLERGY AND IMMUNOLOGY	5T01 AI00214-14	50,372
VAUGHAN, JOHN H	RHEUMATIC DISEASES	5T01 AM05693-05	99,602
VAUGHAN, JOHN H	IMMUNOLOGY IN RHEUMATIC DISEASES	1T32 AM07144-01	19,529
ORGANIZATION TOTAL	6	475,580	
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO		ZIP CODE 92037	
BERNSTEIN, EUGENE F	CARDIOVASCULAR SURGERY AND BIOENGINEERING	5T01 HL05946-04	96,369
BERNSTEIN, EUGENE F	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES	1T32 HL07089-01	110,026
BULLOCK, THEODORE H	NEUROSCIENCES	5T01 NS05628-08	36,616
DEFTOS, LEONARD J	DISEASES OF BONE AND CALCIUM METABOLISM	1T32 AM07048-01	14,256

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
DUTTON, RICHARD W.	CELLULAR IMMUNOLOGY	5T01 AI00453-04	72,000
DUTTON, RICHARD W.	REGULATORY MECHANISMS IN THE IMMUNE RESPONSE	1T32 CA09174-01	187,685
FANESTIL, DARRELL D.	NEPHROLOGY AND UROLOGY	5T01 AM05706-04	90,207
GEIDUSCHEK, E. PETER	CELL AND MOLECULAR BIOLOGY	1T32 GM07313-01	160,904
GOULIAN, MEHRAN	HEMATOLOGY	5T01 AM05702-04	71,115
GOULIAN, MEHRAN	HEMATOLOGY	1T32 HL07107-01	20,416
HOUGIE, CECIL	HEMATOLOGY	1T32 HL07059-01	40,833
KAMEN, MARTIN D.	PHYSICAL BIOCHEMISTRY	5T01 GM01045-13	58,883
LEIN, ALLEN	MEDICAL SCIENTIST	1T32 GM07198-01	44,740
LIEBOW, AVERILL A.	MULTIDISCIPLINARY RESPIRATORY DISEASES	1T32 HL07104-01	44,291
LIEBOW, AVERILL A.	PULMONARY MEDICINE	1T17 HL07163-01	64,800
LINDSLEY, DAN L, JR.	MOLECULAR GENETICS	5T01 GM00702-15	145,307
LINDSLEY, DAN L, JR.	BASIC AND MEDICAL GENETICS	1T32 GM07199-01	113,621
LINDSLEY, DAN L, JR.	GENETIC MECHANISMS AND REGULATION	1T32 GM07240-01	23,856
MASOUREDIS, SERAFEIM P.	BLOOD BANKING SCIENCES AND RELATED PROGRAMS	1T32 HL07119-01	34,767
MAYER, STEVEN E.	PHARMACOLOGY	5T01 GM02267-02	105,303
MOSER, KENNETH M.	PULMONARY MEDICINE	1T32 HL07022-01	40,833
NYHAN, WILLIAM L.	NEONATOLOGY AND PERINATAL BIOLOGY	5T01 HD00335-05	92,068
O'ROURKE, ROBERT A.	MEDICAL OR PEDIATRIC CARDIOLOGY	5T01 HL05846-07	167,967
SATO, GORDON H.	CANCER BIOLOGY AND BIOCHEMISTRY	5T01 CA05274-02	100,322
SEEGMILLER, JARVIS E.	MEDICAL GENETICS	5T22 GM00054-02	69,982
SELVERSTON, ALLEN I.	NEUROBIOLOGY	1T32 GM07153-01	88,788
WEST, JOHN B.	PHYSIOLOGICAL BASIS OF PULMONARY DISEASE	5T01 HL05931-04	38,202
WHEELER, HENRY O.	GASTROENTEROLOGY	5T01 AM05725-03	71,510
YGUERABIDE, JUAN	MEMBRANE BIOLOGY IN RELATION TO DISEASE	1T32 GM07169-01	78,115
ZETTNER, ALFRED	INVESTIGATIVE AND CLINICAL PATHOLOGY	1T01 GM02179-01A1	63,704
ZWAIFLER, NATHAN J.	RHEUMATIC DISEASES	5T01 AM05694-05	51,410
ZWAIFLER, NATHAN J.	RHEUMATIC DISEASES	1T32 AM07062-01	19,529
ORGANIZATION TOTAL	32	2,418,425	
<b>LOMA LINDA</b>			
<b>LOMA LINDA UNIVERSITY ZIP CODE 92354</b>			
JUDKINS, MELVIN P.	CARDIOVASCULAR MEDICINE	5T01 HL06013-02	68,796
ORGANIZATION TOTAL	1	68,796	
<b>LOS ANGELES</b>			
<b>CEDARS-SINAI MEDICAL CENTER ZIP CODE 90048</b>			
SWAN, HAROLD J.	MEDICAL CARDIOLOGY	3T01 HL05724-08S2	8,154
SWAN, HAROLD J.	MEDICAL CARDIOLOGY	5T01 HL05724-09	55,387
ORGANIZATION TOTAL	2	63,541	
<b>CHILDREN'S HOSPITAL OF LOS ANGELES ZIP CODE 90054</b>			
HAYS, DANIEL M.	CLINICAL CANCER—MEDICAL PEDIATRICS	5T12 CA08128-09	156,486
ORGANIZATION TOTAL	1	156,486	
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES ZIP CODE 90024</b>			
ALFEN-SLATER, ROSLYN B.	EXPERIMENTAL AND CLINICAL NUTRITION	1T01 AM05732-01	67,155
ATKINSON, DANIEL E.	BIOCHEMISTRY	5T01 GM00463-15	74,764
BENNETT, LESLIE R.	NUCLEAR MEDICINE	5T01 GM01920-07	84,717
BOYER, PAUL D.	MOLECULAR BIOLOGY	5T01 GM01531-09	101,052
BOYER, PAUL D.	CELLULAR AND MOLECULAR BIOLOGY	1T32 GM07185-01	73,535
BROWN, JOSIAH	ENDOCRINOLOGY AND METABOLISM	1T32 AM07094-01	56,592
DETELS, ROGER	CANCER EPIDEMIOLOGY	1T32 CA09142-01	55,265
DUNN, OLIVE J.	BIOSTATISTICS AND BIOMATHEMATICS	5T01 GM00049-19	40,745
FAHEY, JOHN L.	CLINICAL AND FUNDAMENTAL IMMUNOLOGY	5T01 AI00431-04	73,404
FAHEY, JOHN L.	TUMOR IMMUNOLOGY	1T32 CA09120-01	189,154

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
FOX, CHARLES FRED	TUMOR CELL SURFACES AND CHROMOSOMES	1T32 CA09056-01	188,005
FOX, CHARLES FRED	STUDY AND EARLY DETECTION OF MEMBRANE DISEASE	1T32 GM07011-01	39,057
GLASSOCK, RICHARD J.	COMPREHENSIVE NEPHROLOGY	5T01 AM05383-12	56,960
GOLDBERG, LOUIS J.	BASIC SCIENCES	5T01 DE00089-12	34,177
GREENFIELD, MOSES A.	MEDICAL PHYSICS	1T32 CA09092-01	47,515
GRINNELL, ALAN D.	CELLULAR NEUROPHYSIOLOGY	5T01 NS05670-07	93,327
GROSSMAN, MORTON I.	GASTROENTEROLOGY	5T01 AM05470-10	12,335
HEWITT, WILLIAM L.	CLINICAL INVESTIGATION IN INFECTIOUS DISEASES	5T01 AI00309-10	74,119
JENDEN, DONALD J.	PHARMACOLOGY	5T01 GM02040-07	23,578
JENDEN, DONALD J.	PHARMACOLOGICAL SCIENCES	1T32 GM07304-01	28,010
LONGMIRE, WILLIAM P. JR.	SURGERY	5T01 GM01559-10	110,228
MOMMAERTS, WILFRIED F.	PHYSIOLOGY	5T01 GM00448-15	115,803
MORTON, DONALD L.	SURGICAL ONCOLOGY	1T32 CA09010-01	97,496
NIERLICH, DONALD P.	GENETIC MECHANISMS	1T32 GM07104-01	89,688
PEASE, DANIEL C.	ANATOMICAL SCIENCES	5T01 GM00616-15	126,149
RASMUSSEN, A F, JR.	SYSTEMS AND INTEGRATIVE PHYSIOLOGY WITH COGNATE SCIENCES	1T32 GM07191-01	20,753
RITTENBERG, SYDNEY C.	MICROBIOLOGY	5T01 GM01297-11	36,272
ROSS, JOSEPH F.	HEMATOLOGY AND HEMATOLOGIC ONCOLOGY	5T01 HL05020-18	84,019
SIMMONS, DANIEL H.	PULMONARY PHYSIOLOGY	5T01 HL05917-09	73,600
SIMMONS, DANIEL H.	RESPIRATORY DISEASE—BASIC AND CLINICAL	1T32 HL07014-01	82,553
SIMMONS, DANIEL H.	PULMONARY PHYSIOLOGY	1T17 HL07139-01	53,576
SMITH, EMIL L.	BIOCHEMISTRY	5T01 GM00364-16	79,996
STEIN, JUSTIN J.	RADIOTHERAPY OF CANCER	5T01 CA05117-12	11,006
STIEHM, E RICHARD	PEDIATRIC ALLERGIC DISEASES	1T32 AI07008-01	36,720
STRAATSMAN, BRADLEY R.	VISION RESEARCH	1T32 EY07026-01	33,732
VAN LANCKER, JULIEN L.	MECHANISMS OF CARCINOGENESIS	1T32 CA09030-01	53,909
VAN LANCKER, JULIEN L.	PATHOLOGY	5T01 GM00802-14	42,674
WALTER, RICHARD D.	NEUROLOGY	5T01 NS05070-22	102,315
WARD, PAUL H.	OTOLOGY AND OTOLARYNGOLOGY	5T01 NS05295-16	7,904
WORK, TELFORD H.	PARASITOLOGY AND MEDICAL ENTOMOLOGY	5T01 AI00132-14	96,705
ORGANIZATION TOTAL	40	2,768,564	
<b>UNIVERSITY OF SOUTHERN CALIFORNIA ZIP CODE 90007</b>			
ABRAMS, ALBERT M.	CLINICAL CANCER—DENTAL	5T12 CA08023-09	21,274
BEKEY, GEORGE A.	BIOMEDICAL ENGINEERING	5T01 GM01724-10	100,808
BEKEY, GEORGE A.	SYSTEMS PHYSIOLOGY AND BIOMEDICAL ENGINEERING	1T32 GM07139-01	26,495
BESSMAN, SAMUEL P.	CARDIOCHEMICAL PHARMACOLOGY	5T01 HL05536-13	73,336
BIRREN, JAMES E.	GERONTOLOGY	5T01 HD00157-10	227,284
FRIOU, GEORGE J.	RHEUMATIC DISEASES	5T01 AM05483-10	60,209
GRODINS, FRED S.	CARDIOPULMONARY BIOMEDICAL ENGINEERING	1T32 HL07012-01	67,462
HALL, THOMAS C.	INTERDISCIPLINARY CANCER	5T01 CA05297-02	190,143
HAMMOND, G DENMAN	CLINICAL CANCER	5T12 CA08099-10	281,288
HORTON, RICHARD	ENDOCRINOLOGY	5T01 AM05176-17	99,582
HORTON, RICHARD	ENDOCRINE HYPERTENSION AND ENDOCRINOLOGY—METABOLISM	1T32 AM07119-01	19,529
SLAVKIN, HAROLD C.	BIOCHEMISTRY	5T01 DE00094-14	88,314
SLAVKIN, HAROLD C.	MULTIDISCIPLINARY PROGRAM IN CRANIOFACIAL DEVELOPMENT	5T22 DE00134-02	83,484
SLAVKIN, HAROLD C.	CRANIOFACIAL BIOLOGY	1T32 DE07006-01	64,323
ORGANIZATION TOTAL	14	1,403,531	
<b>PALO ALTO</b>			
<b>PALO ALTO MEDICAL RESEARCH FOUNDATION ZIP CODE 94301</b>			
REMINGTON, JACK S.	BIOCHEMISTRY AND PHYSIOLOGY	5T01 AI00260-11	45,144
ORGANIZATION TOTAL	1	45,144	



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
<b>PASADENA</b>			
<b>CALIFORNIA INSTITUTE OF TECHNOLOGY</b>	<b>ZIP CODE 91109</b>		
DAVIDSON, NORMAN R.	BIOCHEMISTRY	5T01 GM01262-12	162,566
FENDER, DEREK H.	BIOLOGICAL SYSTEMS ANALYSIS OF THE VISUAL PROCESS	5T01 EY00085-02	28,613
FENDER, DEREK H.	VISUAL SYSTEM	1T32 EY07011-01	37,282
FRIEDLANDER, SHELDON K.	ENVIRONMENTAL HEALTH ENGINEERING	5T01 ES00080-09	51,141
HOROWITZ, NORMAN H.	BIOLOGICAL SCIENCES	5T01 GM00086-18	266,261
MC KEE, JACK E.	ENVIRONMENTAL HEALTH ENGINEERING	5T01 ES00004-15	122,088
OLDS, JAMES	BEHAVIORAL SCIENCES	5T01 GM02031-07	61,027
ORGANIZATION TOTAL	7	728,978	
<b>SAN FRANCISCO</b>			
<b>INSTITUTES OF MEDICAL SCIENCES</b>	<b>ZIP CODE 94120</b>		
SCOTT, ALAN B.	EYE MOVEMENT DISORDERS	1T32 EY07027-01	42,016
ORGANIZATION TOTAL	1	42,016	
<b>MOUNT ZION HOSPITAL AND MEDICAL CENTER</b>	<b>ZIP CODE 94120</b>		
CASTRO, JOSEPH R.	RADIATION ONCOLOGY	5T01 CA05203-08	91,876
ORGANIZATION TOTAL	1	91,876	
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO</b>	<b>ZIP CODE 94143</b>		
BISHOP, J MICHAEL	THE MOLECULAR ANALYSIS OF TUMOR VIRUSES	1T32 CA09043-01	98,124
BLOIS, MARSDEN S, JR.	MEDICAL INFORMATION SCIENCES	5T01 LM00153-04	110,385
BLOIS, MARSDEN S, JR.	MEDICAL INFORMATION SCIENCES	1T15 LM07000-01	69,420
BOLES, ROGER	OTOLARYNGOLOGY	5T01 NS05248-16	36,537
BURKHALTER, ALAN	PHARMACOLOGY	5T01 GM00475-16	36,656
CARLSSON, S ERIK	CARDIOVASCULAR RADIOLOGY	5T01 HL05824-08	48,945
COLERIDGE, JOHN C.	CARDIOPULMONARY PHYSIOLOGY	5T01 HL05251-17	346,449
COMROE, JULIUS H, JR.	PULMONARY MEDICINE	1T17 HL07159-01	86,400
DUNPHY, J ENGLEBERT	SURGERY	5T01 GM01474-10	140,331
EDELMAN, ISIDORE S.	RENAL PHYSIOLOGY	5T01 HL05725-09	75,434
EPSTEIN, CHARLES J.	MEDICAL GENETICS	1T32 GM07085-01	36,987
FISHMAN, ROBERT A.	NEUROLOGY	5T01 NS05101-20	27,925
FRICK, OSCAR L.	IMMUNOLOGY-ALLERGY	5T22 AI00011-02	35,135
GANONG, WILLIAM F.	NEUROENDOCRINOLOGY	5T01 AM05613-08	49,278
GANONG, WILLIAM F.	PHYSIOLOGY	5T01 GM00927-13	71,149
GRUMBACH, MELVIN M.	PEDIATRIC ENDOCRINOLOGY	5T01 AM05528-10	119,599
HAMILTON, WILLIAM K.	ANESTHESIOLOGY	5T01 GM00063-18	111,028
HOGAN, MICHAEL J.	OPHTHALMOLOGY	5T01 EY00011-21	67,167
HOLLIDAY, MALCOLM A.	FUNCTION, GROWTH & NUTRITION IN PEDIATRIC NEPHROLOGY	5T01 HD00182-09	46,437
HOYT, WILLIAM F.	OPHTHALMOLOGY AND NEUROLOGY	5T01 EY00083-04	15,200
JORGENSEN, EUGENE C.	PHARMACEUTICAL CHEMISTRY	5T01 GM00728-14	110,018
KAUFMAN, LEON	MEDICAL NUCLEAR PHYSICS	1T32 CA09158-01	5,618
KITTERMAN, JOSEPH A.	PERINATAL INFECTIONS AND IMMUNITY	5T01 HD00397-04	47,797
LOWENTHAL, MARJORIE F.	ADULT DEVELOPMENT AND AGING	5T01 HD00238-08	136,406
MARGULIS, ALEXANDER R.	DIAGNOSTIC RADIOLOGY	5T01 GM01272-11	246,125
MELMON, KENNETH L.	CLINICAL PHARMACOLOGY AND PHARMACOKINETICS	5T22 GM00001-02	196,571
MELMON, KENNETH L.	CLINICAL PHARMACOLOGY AND PHARMACOKINETICS	5T01 GM01791-09	98,280
MURRAY, JOHN F.	CARDIOPULMONARY PHYSIOLOGY	5T01 HL05705-09	174,421
NEWTON, THOMAS H.	NEURORADIOLOGY	5T01 NS05603-08	47,038
OCKNER, ROBERT K.	DIGESTIVE DISEASES AND NUTRITION	1T32 AM07007-01	39,057
OSTLER, HOWARD B.	OCULAR INFLAMMATORY DISEASES	5T01 EY00094-02	100,103
PARMLEY, WILLIAM W.	CLINICAL RADIOLOGY	3T01 HL05740-09S1	8,773
PATT, HARVEY M.	EXPERIMENTAL ONCOLOGY	5T01 CA05303-02	83,345
PHILLIPS, THEODORE L.	RADIATION THERAPY—CANCER	5T01 CA05177-12	152,991
RUTTER, WILLIAM J.	BIOCHEMICAL GENETICS OF EUKARYOTES	5T01 GM02197-05	42,739

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
SHELDON, GEORGE F.....	TRAUMA CENTER.....	1T32 GM07032-01	21,008
SHOHE, STEPHEN B.....	HEMATOLOGY.....	5T01 HL05677-09	124,603
SHOHE, STEPHEN B.....	BLOOD BANKING SCIENCES AND RELATED PROGRAMS.....	1T32 HL07100-01	81,961
THALER, M MICHAEL.....	PEDIATRIC GASTROENTEROLOGY.....	5T01 AM05722-03	40,370
WILSON, CHARLES B.....	NEUROLOGICAL SURGERY.....	5T01 NS05593-07	82,227
ORGANIZATION TOTAL	40 3,468,037		
<b>SANTA BARBARA</b>			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA BARBARA ZIP CODE 93106</b>			
HORVATH, STEVEN M.....	PHYSIOLOGY OF EXERCISE AND STRESS.....	5T01 HD00235-07	82,210
ORGANIZATION TOTAL	1 82,210		
<b>STANFORD</b>			
<b>STANFORD UNIVERSITY ZIP CODE 94305</b>			
ARONOW, LEWIS.....	PHARMACOLOGY.....	5T01 GM00322-16	34,320
ARONOW, LEWIS.....	PHARMACOLOGY.....	1T32 GM07149-01	32,967
BAGSHAW, MALCOLM A.....	CANCER—RADIOLOGY.....	5T01 CA05008-19	367,696
BERNFELD, MERTON R.....	MOLECULAR PATHOLOGY OF CELL MEMBRANES.....	1T32 GM07026-01	94,314
COHEN, STANLEY N.....	CLINICAL PHARMACOLOGY.....	1T32 GM07065-01	19,529
CUTLER, ROBERT W.....	DEVELOPMENTAL NEUROLOGY.....	1T32 NS07012-01	37,260
EHRlich, PAUL R.....	POPULATION BIOLOGY.....	5T01 GM00365-14	53,428
FARBER, EUGENE M.....	DERMATOLOGY.....	5T01 AM05318-13	81,714
FARQUHAR, JOHN W.....	CARDIOVASCULAR DISEASE PREVENTION.....	1T32 HL07034-01	91,282
GRAY, GARY M.....	GASTROENTEROLOGY.....	1T32 AM07056-01	39,057
HANAWALT, PHILIP C.....	BIOPHYSICS.....	5T01 GM00712-17	74,240
HARRISON, DONALD C.....	CARDIOVASCULAR DISEASE.....	5T01 HL05866-06	213,537
KAPLAN, HENRY S.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08122-09	304,419
KENNEDY, DONALD.....	INTEGRATIVE BIOLOGY.....	1T32 GM07181-01	76,068
KORN, DAVID.....	TUMOR BIOLOGY.....	1T32 CA09151-01	103,140
KORN, DAVID.....	PATHOLOGY.....	1T01 GM02236-01	52,417
LARSON, C PHILIP, JR.....	ANESTHESIOLOGY.....	5T01 GM00862-15	44,330
LEDERBERG, JOSHUA.....	MEDICAL GENETICS.....	5T22 GM00198-02	51,984
LEDERBERG, JOSHUA.....	GENETICS.....	5T01 GM00295-17	118,280
LEHMAN, ROBERT I.....	BIOCHEMISTRY.....	5T01 GM00196-17	159,504
MERIGAN, THOMAS C.....	BACTERIOLOGY, VIROLOGY AND MYCOLOGY.....	5T01 AI00185-14	55,162
MOSES, LINCOLN E.....	BIOMETRY.....	5T01 GM00025-18	88,308
PARKER, EDWIN B.....	BIOMEDICAL COMMUNICATION AND INFORMATION SCIENCE.....	5T01 LM00135-04	52,781
PAUL, BENJAMIN D.....	SOCIOMEDICAL ANTHROPOLOGY.....	5T01 GM01485-08	153,400
ROBIN, EUGENE D.....	PULMONARY CLINICAL SCIENTIST.....	5T01 HL05929-05	126,926
ROSENBERG, SAUL A.....	INVESTIGATIVE ONCOLOGY.....	5T01 CA05289-02	141,691
ROSENTHAL, A RALPH.....	BASIC SCIENCES.....	5T01 EY00051-08	70,924
RUBINSTEIN, LUCIEN J.....	NEUROPATHOLOGY.....	5T01 NS05500-10	49,570
SCHIMKE, ROBERT T.....	MEDICAL SCIENTIST.....	5T05 GM01922-08	364,428
SCHUBERT, EARL D.....	AUDIOLOGY.....	5T01 NS05419-12	75,817
SIMMONS, F BLAIR.....	OTOLARYNGOLOGY.....	5T01 NS05582-10	63,322
STAMEY, THOMAS A.....	UROLOGY.....	5T01 AM05513-10	88,851
STOCKER, BRUCE A.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07276-01	37,714
SUNSHINE, PHILIP.....	DEVELOPMENTAL BIOLOGY AND NEONATOLOGY.....	5T01 HD00049-15	143,965
YANOFSKY, CHARLES.....	BIOCHEMICAL GENETICS.....	5T01 GM00158-18	117,282
ZBORALSKE, F FRANK.....	DIAGNOSTIC RADIOLOGY.....	5T01 GM01707-10	135,000
ORGANIZATION TOTAL	36 3,814,627		
<b>TORRANCE</b>			
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL ZIP CODE 90509</b>			
ODELL, WILLIAM D.....	ENDOCRINOLOGY.....	5T01 AM05550-09	94,786

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
RIMOIN, DAVID L.....	MEDICAL GENETICS AND BIRTH DEFECTS.....	5T01 HD00417-04	45,787
STEWART, RAY E.....	ORAL-FACIAL GENETICS AND CRANIOFACIAL ANOMALIES.....	5T22 DE00102-02	67,500
WASSERMAN, KARLMAN.....	BIOLOGICAL BASIS OF RESPIRATORY DISEASE.....	5T01 HL05916-05	120,863
ORGANIZATION TOTAL	4 328,936		
STATE TOTAL	234 19,637,407		
<b>COLORADO</b>			
<b>BOULDER</b>			
UNIVERSITY OF COLORADO ZIP CODE 80302			
MC CLEARN, GERALD E.....	BEHAVIORAL PHARMACOGENETICS.....	1T32 GM07305-01	35,873
PORTER, KEITH R.....	CELL BIOLOGY.....	5T01 GM02118-05	42,773
SUEOKA, NOBORU.....	MOLECULAR BIOLOGY.....	1T32 GM07135-01	33,972
ORGANIZATION TOTAL	3 112,618		
<b>DENVER</b>			
NATIONAL ASTHMA CENTER ZIP CODE 80204			
CROPP, GERD J.....	CONTROL OF AIRWAYS AND RESPIRATION IN LUNG DISEASE.....	1T32 HL07026-01	40,833
ORGANIZATION TOTAL	1 40,833		
NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER ZIP CODE 80206			
FARR, RICHARD S.....	ALLERGIC DISEASES.....	1T32 AI00048-01	64,260
ORGANIZATION TOTAL	1 64,260		
UNIVERSITY OF COLORADO MEDICAL CENTER ZIP CODE 80220			
AUSTIN, JAMES H.....	NEUROLOGY.....	5T01 NS05088-21	146,255
BATTAGLIA, FREDERICK C.....	PERINATAL MEDICINE.....	5T01 HD00429-02	96,751
BLOUNT, S GILBERT, JR.....	MEDICAL CARDIOLOGY.....	5T01 HL05734-09	125,351
CHIDSEY, CHARLES A.....	CLINICAL PHARMACOLOGY.....	1T32 GM07063-01	59,178
CHIDSEY, CHARLES A.....	CLINICAL PHARMACOLOGY—CARDIOVASCULAR.....	5T01 HL05722-09	29,263
CLAMAN, HENRY.....	ALLERGY AND IMMUNOLOGY.....	5T01 AI00013-17	55,900
GROVER, ROBERT F.....	RESPIRATORY AND CIRCULATORY CONTROL MECHANISMS.....	3T01 HL05973-02S2	4,860
GROVER, ROBERT F.....	RESPIRATORY AND CIRCULATORY CONTROL MECHANISMS.....	5T01 HL05973-03	60,804
HENDEE, WILLIAM R.....	MEDICAL PHYSICS.....	1T32 CA09073-01	16,273
KERN, FRED, JR.....	GASTROINTESTINAL DISEASES.....	1T32 AM07038-01	39,057
KOZLOFF, LLOYD M.....	MICROBIOLOGY.....	5T01 GM02219-04	51,834
NELLHAUS, GERHARD.....	CHILD NEUROLOGY.....	5T01 NS05584-08	45,835
NORA, JAMES J.....	CARDIOVASCULAR-PULMONARY PEDIATRICS.....	3T01 HL05981-02S2	8,258
NORA, JAMES J.....	CARDIOVASCULAR-PULMONARY PEDIATRICS.....	5T01 HL05981-03	66,687
PETTY, THOMAS L.....	INTENSIVE RESPIRATORY CARE AND REHABILITATION.....	5T01 HL05933-04	45,249
PETTY, THOMAS L.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	1T32 HL07085-01	42,016
PIERCE, G BARRY.....	TUMOR BIOLOGY—DEVELOPMENT AND NEOPLASIA.....	1T32 CA09157-01	68,664
PIERCE, G BARRY.....	PATHOLOGY.....	5T01 GM00977-14	15,221
PUCK, THEODORE T.....	BIOPHYSICS.....	5T01 GM00781-17	96,167
SCHRIER, ROBERT W.....	RENAL AND ELECTROLYTE DISEASE.....	1T32 AM07135-01	39,057
VERNAKAKIS, ANTONIA O.....	DEVELOPMENTAL PHARMACOLOGY.....	5T01 HD00311-02	42,812
WALKER, STROTHER H.....	BIOMETRICS.....	1T01 GM02241-01A1	25,437
WEINER, NORMAN.....	INFLUENCE OF DRUGS ON REGULATORY MECHANISMS.....	5T01 GM01983-07	99,578
WHITLOCK, DAVID G.....	ANATOMY.....	5T01 GM01981-07	71,441
WOOD RAYMOND P.....	OTOLARYNGOLOGY.....	5T01 NS05504-10	39,676
ORGANIZATION TOTAL	25 1,391,624		
STATE TOTAL	30 1,609,335		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>CONNECTICUT</b>			
<b>FARMINGTON</b>			
<b>UNIVERSITY OF CONNECTICUT HEALTH CENTER</b>		<b>ZIP CODE 06032</b>	
BECKER, ELMER L.....	BASIC IMMUNOLOGY AND IMMUNOLOGIC CELL INJURY.....	5T01 AI00438-04	64,254
BURSTONE, CHARLES J.....	BIOENGINEERING AND ORTHODONTICS.....	5T22 DE00136-02	153,807
BURSTONE, CHARLES J.....	BIOMECHANICS AND CLINICAL ORTHODONTICS.....	5T01 DE00283-05	83,155
GAY, THOMAS.....	CRANIOFACIAL ANOMALIES.....	5T22 DE00202-02	97,632
ORGANIZATION TOTAL	4	398,848	
<b>NEW HAVEN</b>			
<b>YALE UNIVERSITY</b>		<b>ZIP CODE 06520</b>	
ADELBERG, EDWARD A.....	MICROBIOLOGY.....	5T01 GM00275-16	27,612
BARNETT, RUSSELL J.....	ANATOMY.....	5T01 GM00105-16	77,420
BERTINO, JOSEPH R.....	ONCOLOGY AND PHARMACOLOGY.....	5T01 CA05138-14	124,035
BINDER, HENRY J.....	GASTROENTEROLOGY.....	5T01 AM05703-04	48,886
BLACK, FRANCIS L.....	CENTRAL NERVOUS SYSTEM-VIROLOGICAL INFECTIONS.....	1T32 NS07036-01	55,892
CHANDLER, WILLIAM K.....	NEUROPHYSIOLOGY.....	5T01 NS05477-11	74,081
COHEN, MELVIN J.....	NEUROBIOLOGY.....	5T01 NS05768-02	63,188
COLEMAN, JOSEPH E.....	MEDICAL SCIENTIST.....	5T05 GM02044-06	170,087
COLEMAN, JOSEPH E.....	MEDICAL SCIENTIST.....	1T32 GM07205-01	69,205
COOPER, JACK R.....	PHARMACOLOGY.....	5T01 GM00059-16	23,504
COOPER, JACK R.....	GENERAL PHARMACOLOGY.....	1T32 GM07324-01	35,285
COOPER, JACK R.....	NEUROPHARMACOLOGY.....	5T01 NS05706-04	60,961
FISCHER, JAMES J.....	CANCER-RADIOTHERAPY.....	5T01 CA05094-14	96,001
GALL, JOSEPH G.....	CELL AND DEVELOPMENTAL BIOLOGY.....	5T01 HD00032-12	260,302
GILLIS, CHARLES N.....	ANESTHESIOLOGY.....	5T01 HL05942-04	6,813
GLASER, GILBERT H.....	NEUROLOGY.....	5T01 NS05030-21	47,842
GOTTSCHALK, ALEXANDER.....	NUCLEAR MEDICINE.....	5T01 GM02094-05	43,628
HUTCHINSON, FRANKLIN.....	MOLECULAR BIOPHYSICS AND BIOCHEMISTRY.....	5T01 GM00711-18	238,995
HUTCHINSON, FRANKLIN.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07223-01	137,589
KANTOR, FRED S.....	ALLERGY AND IMMUNOLOGY.....	5T01 AI00271-10	75,859
KIER, E LEON.....	NEURORADIOLOGY.....	5T01 NS05646-07	27,831
KIRCHNER, JOHN A.....	OTOLARYNGOLOGY.....	5T01 NS05213-18	70,100
KLATSKIN, GERALD.....	LIVER DISEASE.....	5T01 AM05180-17	92,881
LERNER, AARON B.....	DERMATOLOGY.....	1T32 AM07016-01	39,057
LYTTON, BERNARD.....	UROLOGY.....	5T01 AM05676-05	33,804
MALAWISTA, STEPHEN E.....	RHEUMATOLOGY.....	5T01 AM05639-05	54,302
MANUELIDIS, ELIAS E.....	NEUROPATHOLOGY.....	5T01 NS05292-16	36,157
MARCHESI, VINCENT T.....	PATHOLOGY OF MEMBRANES.....	5T22 GM00167-02	144,575
MC COLLUM, ROBERT W.....	EPIDEMIOLOGY.....	5T01 GM00005-19	144,538
MICHAEL, CHARLES R.....	PHYSIOLOGY.....	5T01 GM01113-13	73,032
MULROW, PATRICK J.....	METABOLIC DISEASES AND DIABETES.....	5T01 AM05015-20	163,927
MULROW, PATRICK J.....	METABOLIC DISEASES AND DIABETES.....	1T32 AM07058-01	39,057
PRUSOFF, WILLIAM H.....	BIOCHEMICAL ASPECTS OF CANCER CHEMOTHERAPY.....	5T01 CA05012-19	23,158
PRUSOFF, WILLIAM H.....	BIOCHEMICAL ASPECTS OF CANCER CHEMOTHERAPY.....	1T32 CA09085-01	86,178
ROSENBERG, LEON E.....	MEDICAL GENETICS.....	5T22 GM00077-02	76,320
ROSENBERG, LEON E.....	MEDICAL GENETICS-MOLECULAR AND CLINICAL.....	5T01 HD00198-09	94,120
RUDDLE, FRANK H.....	GENETICS.....	5T01 GM02299-02	187,234
SCHMIR, GASTON L.....	BIOCHEMISTRY.....	5T01 GM00053-17	24,588
STOLWIJK, JAN A.....	ENVIRONMENTAL HEALTH SCIENCES.....	5T01 ES00123-07	109,458
TOMITA, TSUNEO.....	VISUAL SCIENCES.....	1T32 EY07000-01	132,558
WARSHAW, JOSEPH B.....	RESEARCH PEDIATRICS.....	5T01 HD00177-09	118,896
WEISSMAN, SHERMAN M.....	GENETIC HEMATOLOGY.....	5T01 AM05708-03	91,616
WEISSMAN, SHERMAN M.....	MOLECULAR AND ONCOLOGIC VIROLOGY.....	1T32 CA09159-01	84,650
WHITE, COLIN.....	CANCER EPIDEMIOLOGY.....	5T01 CA05223-07	11,043
WHITE, COLIN.....	BIOMETRY.....	5T01 GM00047-20	75,160
ORGANIZATION TOTAL	45	3,771,425	



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training		Grant number	Dollars
CONNECTICUT—Con.				
STORRS				
UNIVERSITY OF CONNECTICUT		ZIP CODE 06268		
HERRMANN, HEINZ	CELL BIOLOGY		ST01 GM00317-16	47,090
MATTINGLY, IGNATIUS G	LANGUAGE AND PSYCHOLOGY		ST01 HD00321-03	76,484
ORGANIZATION TOTAL	2	123,574		
STATE TOTAL	51	4,293,847		
DIST OF COL				
WASHINGTON				
GEORGE WASHINGTON UNIVERSITY		ZIP CODE 20006		
ARMALY, MANSOUR F	OPHTHALMOLOGY		ST01 EY00047-09	37,269
ORGANIZATION TOTAL	1	37,269		
GEORGETOWN UNIVERSITY		ZIP CODE 20007		
BELLANTI, JOSEPH A	DEVELOPMENTAL IMMUNOLOGY		ST01 HD00261-07	75,077
KATZ, SOL	PULMONARY MEDICINE		ST01 HL05943-04	68,626
LILIENTHAL, LAWRENCE S	CARDIOVASCULAR PHYSIOLOGY		ST01 HL05527-13	58,870
SAZ, ARTHUR K	MICROBIOLOGY, VIROLOGY, MOLECULAR BIOLOGY, IMMUNOLOGY		ST01 AI00298-10	85,169
ORGANIZATION TOTAL	4	287,742		
HOWARD UNIVERSITY		ZIP CODE 20001		
FINLEY, HAROLD E	CYTOLOGY, GENETICS, AND PROTOZOOLOGY		ST01 GM02196-05	66,455
LEAK, LEE V	ANATOMICAL SCIENCES		3T02 GM05008-01S1	33,480
PAYSEUR, G STEPHON	OPHTHALMOLOGY		ST01 EY00057-11	70,486
WHITE, JACK E	CLINICAL CANCER—MEDICAL		5T12 CA08070-08	116,728
ORGANIZATION TOTAL	4	287,149		
STATE TOTAL	9	612,160		
FLORIDA				
GAINESVILLE				
STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA		ZIP CODE 32611		
CONTI, RICHARD C	MEDICAL CARDIOLOGY		ST01 HL05784-08	87,527
EITZMAN, DONALD V	GROWTH AND DEVELOPMENTAL PHYSIOLOGY		ST01 HD00054-14	67,662
ELLIOTT, LARRY P	CARDIOVASCULAR RADIOLOGY		ST01 HL05856-07	75,600
ENNEKING, WILLIAM F	INVESTIGATIVE MUSCULOSKELETAL PATHOLOGY		1T32 AM07141-01	39,057
GESSNER, IRA H	PEDIATRIC CARDIOLOGY		ST01 HL05774-08	43,574
GREER, MELVIN	NEUROLOGY		ST01 NS05281-16	83,322
JAEGER, MARC J	RESPIRATORY PHYSIOLOGY		ST01 HL05979-03	93,164
KAUFMAN, HERBERT E	OPHTHALMOLOGY		1T32 EY07012-01	45,604
MAREN, THOMAS H	PHARMACOLOGY		ST01 GM00760-15	54,614
MC GUIGAN, JAMES E	GASTROENTEROLOGY		ST01 AM05664-05	58,253
MILLION, RODNEY R	CANCER—CLINICAL RADIOTHERAPY		ST01 CA05259-04	57,319
MODELL, JEROME H	ANESTHESIOLOGY		ST01 GM00427-15	46,198
MOORE, PAUL	COMMUNICATION SCIENCES—SPEECH PATHOLOGY		ST01 NS05475-11	78,248
MORELAND, ALVIN F	LABORATORY ANIMAL COMPARATIVE MEDICINE		1T32 RR07001-01	34,155
RENNERT, OWEN M	ENDOCRINOLOGY AND METABOLISM		ST01 AM05680-05	67,908
SCHIMPF, ROBERT D	NEUROPATHOLOGY		ST01 NS05744-04	31,969
SINGLETON, GEORGE T	OTOLARYNGOLOGY		ST01 NS05385-14	40,761

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training		Grant number	Dollars
FLORIDA—Con.				
SMITH, RICHARD T.....	CELL BIOLOGY AND IMMUNOBIOLOGY OF CANCER.....		1T32 CA09126-01	84,169
WALDMAN, ROBERT H.....	INFECTIOUS DISEASES AND CLINICAL IMMUNOLOGY.....		5T01 AI00341-08	101,971
ORGANIZATION TOTAL	19	1,191,075		
MIAMI				
UNIVERSITY OF MIAMI		ZIP CODE 33152		
ANDERSON, DOUGLAS R.....	OPHTHALMOLOGY.....	1T32 EY07021-01	57,699	
BLANK, HARVEY.....	DERMATOLOGY.....	1T32 AM07081-01	19,529	
HOLADAY, DUNCAN A.....	ANESTHESIOLOGY.....	5T01 GM01714-10	75,563	
JACOBSON, MARCUS.....	DEVELOPMENTAL NEUROSCIENCES.....	1T32 NS07044-01	80,122	
MINTZ, DANIEL H.....	ENDOCRINOLOGY AND METABOLISM.....	5T01 AM05710-04	45,403	
ROCKSTEIN, MORRIS.....	GERONTOLOGY.....	5T01 HD00142-10	85,416	
WHELAN, WILLIAM J.....	MOLECULAR ENZYMOLOGY.....	5T01 GM02011-07	31,812	
YUNIS, ADEL A.....	INTERNAL MEDICINE—HEMATOLOGY.....	1T32 AM07114-01	20,416	
ZEPPA, ROBERT.....	SURGERY.....	5T01 GM01683-10	100,486	
ORGANIZATION TOTAL	9	516,446		
MIAMI BEACH				
MOUNT SINAI MEDICAL CENTER		ZIP CODE 33140		
SACKNER, MARVIN A.....	PULMONARY MEDICINE.....	5T01 HL05980-02	46,440	
ORGANIZATION TOTAL	1	46,440		
TALLAHASSEE				
STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY		ZIP CODE 32306		
BEIDLER, LLOYD M.....	SENSORY PHYSIOLOGY.....	5T01 NS05258-17	58,438	
BEIDLER, LLOYD M.....	SENSORY PHYSIOLOGY AND BIOPHYSICS.....	1T32 NS07010-01	75,902	
BRADLEY, RALPH A.....	BIOMETRY.....	5T01 GM00913-14	22,322	
DE BUSK, A GIB.....	GENETICS.....	5T01 GM01316-11	42,448	
LEYSIEFFER, FREDERICK W.....	ENVIRONMENTAL HEALTH MEASUREMENT AND STATISTICS.....	1T32 ES07011-01	96,180	
ORGANIZATION TOTAL	5	295,290		
STATE TOTAL	34	2,049,251		
GEORGIA				
ATHENS				
UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA		ZIP CODE 30601		
GILES, NORMAN H.....	GENETICS.....	1T32 GM07103-01	56,416	
MC GHEE, R BARCLAY.....	COMPARATIVE PARASITOLOGY AND MEDICAL ENTOMOLOGY.....	5T01 AI00315-08	42,545	
PAYNE, WILLIAM J.....	MICROBIOLOGY.....	5T01 GM01968-07	14,623	
ORGANIZATION TOTAL	3	113,584		
ATLANTA				
EMORY UNIVERSITY		ZIP CODE 30322		
FREDERICKSON, EVAN.....	ANESTHESIOLOGY.....	5T01 GM01508-10	38,355	
HURST, J WILLIS.....	MEDICAL CARDIOLOGY.....	3T01 HL05731-08S2	32,778	
HURST, J WILLIS.....	MEDICAL CARDIOLOGY.....	5T01 HL05731-09	202,089	
KARP, HERBERT R.....	CLINICAL NEUROLOGY.....	5T01 NS05071-18	77,204	
KOSTYO, JACK L.....	PHYSIOLOGY.....	5T01 GM02156-05	30,861	
MANDELL, LEON.....	MEDICINAL CHEMISTRY.....	5T01 GM01970-07	11,632	
MORAN, NEIL C.....	PHARMACOLOGY.....	5T01 GM00179-17	89,592	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>GEORGIA—Con.</b>			
PRUITT, ALBERT .....	CLINICAL PHARMACOLOGY.....	5T01 GM01543-14	73,527
SCHLANT, ROBERT C .....	MEDICAL CARDIOLOGY.....	3T01 HL05653-09S2	5,076
SHULMAN, JONAS A.....	BACTERIOLOGY AND MYCOLOGY.....	5T01 AI00447-04	60,969
WALDRON, CHARLES A.....	CLINICAL CANCER-DENTAL.....	5T12 CA08001-10	27,596
ZEILER, MICHAEL D.....	EXPERIMENTAL PSYCHOLOGY.....	5T01 HD00208-07	76,451
ORGANIZATION TOTAL	12 726,130		
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA INSTITUTE OF TECHNOLOGY ZIP CODE 30332</b>			
HOCHMAN, ROBERT F.....	DENTAL MATERIALS.....	5T01 DE00127-13	31,181
SLAMECKA, VLADIMIR.....	BIOMEDICAL INFORMATION SCIENCE.....	5T01 LM00147-03	103,888
ORGANIZATION TOTAL	2 135,069		
<b>AUGUSTA</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA ZIP CODE 30902</b>			
KOLAS, STEVE.....	CLINICAL CANCER-DENTAL.....	5T12 CA08164-02	20,617
MAHESH, VIRENDRA B.....	ENDOCRINE AND POPULATION ASPECTS OF REPRODUCTIVE BIOLOGY.....	5T01 HD00112-08	81,838
SMITH, J GRAHAM, JR.....	DERMATOLOGY.....	3T01 AM05586-05S2	1,943
ORGANIZATION TOTAL	3 104,398		
STATE TOTAL	20 1,079,181		
<b>HAWAII</b>			
<b>HONOLULU</b>			
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA ZIP CODE 96822</b>			
HUNT, JOHN A.....	HUMAN GENETICS.....	5T01 HD00400-02	74,977
ORGANIZATION TOTAL	1 74,977		
STATE TOTAL	1 74,977		
<b>ILLINOIS</b>			
<b>CARBONDALE</b>			
<b>SOUTHERN ILLINOIS UNIVERSITY ZIP CODE 62901</b>			
SHECHMEISTER, ISAAC L.....	MICROBIOLOGY.....	5T01 DE00144-12	32,287
ORGANIZATION TOTAL	1 32,287		
<b>CHICAGO</b>			
<b>HEKTOEN INSTITUTE FOR MEDICAL RESEARCH ZIP CODE 60612</b>			
LEV, MAURICE.....	CARDIOVASCULAR PATHOLOGY.....	5T01 HL05559-13	13,422
ORGANIZATION TOTAL	1 13,422		
<b>INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH ZIP CODE 60611</b>			
FRECHETTE, ARTHUR.....	SENIOR FOREIGN DENTAL SCIENTIST PROGRAM.....	5T01 DE00197-07	50,168
ORGANIZATION TOTAL	1 50,168		
<b>MICHAEL REESE HOSPITAL AND MEDICAL CENTER ZIP CODE 60616</b>			
NATELSON, SAMUEL.....	CLINICAL CHEMISTRY.....	5T01 GM02124-05	30,756
ORGANIZATION TOTAL	1 30,756		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>ILLINOIS—Con.</b>			
<b>NORTHWESTERN UNIVERSITY      ZIP CODE 60611</b>			
BRUNNER, EDWARD A.....	ANESTHESIOLOGY.....	5T01 GM01693-09	27,144
CUGELL, DAVID W.....	PULMONARY MEDICINE.....	3T01 HL05694-08S2	389
CUGELL, DAVID W.....	PULMONARY MEDICINE.....	5T01 HL05694-09	44,539
EARLE, DAVID P.....	NEPHROLOGY.....	5T01 AM05614-08	103,283
FREINKEL, NORBERT.....	METABOLISM.....	5T01 AM05071-20	91,011
GRAYHACK, JOHN T.....	UROLOGY.....	5T01 AM05543-09	51,823
GREENER, EVAN H.....	MATERIALS SCIENCE.....	5T01 DE00125-13	60,395
PATERSON, PHILIP Y.....	ARTHRITIS, CONNECTIVE TISSUE AND INFECTIOUS DISEASES.....	5T01 AM05069-20	68,856
PATTERSON, ROY.....	INFECTIOUS DISEASES.....	5T22 AI00013-02	29,700
SISSON, GEORGE A.....	COMMUNICATIVE DISORDERS.....	5T01 NS05617-08	103,613
SLADE, HUTTON D.....	MICROBIOLOGY.....	5T01 GM00724-15	51,391
SMITH, DAVID W.....	PATHOLOGY.....	5T01 GM00131-18	41,393
STAMLER, JEREMIAH.....	CARDIOVASCULAR EPIDEMIOLOGY, BIOSTATISTICS, NUTRITION.....	1T32 HL07113-01	122,334
WEBSTER, LESLIE T, JR.....	PHARMACOLOGY.....	5T01 GM00162-17	49,944
WEBSTER, LESLIE T, JR.....	PHARMACOLOGY.....	1T32 GM07263-01	34,380
ORGANIZATION TOTAL      15	880,195		
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER      ZIP CODE 60612</b>			
COHEN, MAYNARD M.....	NEUROLOGY.....	5T01 NS05448-11	25,002
MESSER, JOSEPH V.....	MEDICAL CARDIOLOGY.....	3T01 HL05714-08S2	21,924
MESSER, JOSEPH V.....	MEDICAL CARDIOLOGY.....	5T01 HL05714-09	66,700
TROBAUGH, FRANK E, JR.....	HEMATOLOGY.....	3T01 HL06021-01S1	3,348
TROBAUGH, FRANK E, JR.....	HEMATOLOGY.....	5T01 HL06021-02	60,200
ORGANIZATION TOTAL      5	177,174		
<b>UNIVERSITY OF CHICAGO      ZIP CODE 60637</b>			
BAKER, WILLIAM K.....	GENETICS AND REGULATION.....	1T32 GM07197-01	99,528
BOGUE, DONALD J.....	SOCIAL SCIENCE ASPECTS OF FERTILITY AND FAMILY PLANNING.....	5T01 HD00276-06	104,568
COHEN, EDWARD P.....	CLINICAL ALLERGY.....	5T01 AI00429-05	26,762
COWAN, JACK D.....	THEORETICAL BIOLOGY.....	5T01 GM02037-07	146,262
DE GROOT, LESLIE J.....	INTEGRATED CLINICAL AND BASIC ENDOCRINOLOGY.....	1T32 AM07011-01	31,545
DORFMAN, ALBERT.....	GROWTH AND DEVELOPMENT.....	1T32 HD07009-01	119,777
EVANS, EARL A, JR.....	BIOCHEMISTRY.....	5T01 GM00424-16	53,276
FITCH, FRANK W.....	IMMUNOLOGY.....	5T01 AI00452-04	98,783
FOZZARD, HARRY A.....	MEDICAL CARDIOLOGY.....	5T01 HL05673-10	212,278
GETZ, GODFREY S.....	PATHOBIOLOGY.....	1T32 GM07190-01	108,411
GOLDBERG, LEON I.....	CLINICAL THERAPEUTICS.....	1T32 GM07019-01	36,986
HASELKORN, ROBERT.....	BIOPHYSICAL SCIENCES.....	5T01 GM00780-18	211,200
HELLER, ALFRED.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07151-01	62,671
HUTTENLOCHER, PETER A.....	NEUROLOGY.....	5T01 NS05033-22	49,215
JACOBSON, LEON O.....	MEDICAL SCIENTIST.....	5T05 GM01939-08	445,276
JACOBSON, LEON O.....	MEDICAL SCIENTIST.....	1T32 GM07281-01	97,616
JENSEN, ELWOOD V.....	EXPERIMENTAL ONCOLOGY.....	1T32 CA09183-01	111,251
KIEFF, ELLIOTT D.....	INFECTIOUS DISEASES.....	5T01 AI00449-04	54,108
KIRSTEN, WERNER H.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08077-10	64,968
KIRSTEN, WERNER H.....	EXPERIMENTAL AND ACADEMIC PATHOLOGY.....	5T01 GM00093-18	118,872
LEWERT, ROBERT M.....	PARASITOLOGY AND MEDICAL ENTOMOLOGY.....	5T01 AI00331-09	79,390
LUSTED, LEE B.....	DIAGNOSTIC RADIOLOGY.....	5T01 GM01705-10	124,839
MULLAN, JOHN F.....	NEUROLOGICAL SURGERY.....	5T01 NS05538-10	10,440
POKORNY, JOEL M.....	ASSESSMENT OF COLOR VISION IN NORMAL/DISEASED EYES.....	1T32 EY07010-01	16,273
ROIZMAN, BERNARD.....	VENEREAL DISEASES.....	5T22 AI00184-02	49,442
ROIZMAN, BERNARD.....	VIROLOGY.....	5T01 AI00238-12	100,412
ROSENBERG, IRWIN H.....	DIGESTIVE DISEASES.....	1T32 AM07074-01	39,057
SINGER, RONALD.....	ANATOMY.....	5T01 GM00094-17	95,146
SKAGGS, LESTER S.....	RADIOLOGICAL AND HEALTH PHYSICS IN CANCER THERAPY.....	5T01 CA05132-13	84,647
STARKEY, DUCAN.....	DEVELOPMENTAL PSYCHOLINGUISTICS.....	5T01 HD00419-02	48,113
STRAUSS, BERNARD S.....	GENETICS.....	5T01 GM00090-18	104,528



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>ILLINOIS—Con.</b>			
STRAUSS, BERNARD S.....	MICROBIOLOGY.....	5T01 GM00603-15	97,631
SWIFT, HEWSON H.....	BASIC CYTOLOGY.....	5T01 HD00174-09	134,455
TAYLOR, EDWIN W.....	MOLECULAR AND CELLULAR BIOLOGY.....	1T32 GM07183-01	182,465
WEISS, SAMUEL B.....	CANCER.....	5T01 CA05250-05	50,358
YACHNIN, STANLEY.....	HEMATOLOGY/ONCOLOGY.....	1T32 AM07134-01	39,057
ORGANIZATION TOTAL	36 3,509,606		
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER ZIP CODE 60680</b>			
DRAY, SHELDON.....	MOLECULAR AND CELLULAR ONCOLOGY.....	5T01 CA05291-02	82,907
GOLDBERG, MORTON F.....	OPHTHALMOLOGY.....	5T01 EY00024-18	35,390
JACKSON, GEORGE G.....	INFECTIOUS DISEASES.....	5T01 AI00208-14	71,026
NYHUS, LLOYD M.....	ACADEMIC SURGERY.....	5T01 GM01930-07	107,525
RAY, ROBERT D.....	ORTHOPEDIC SURGERY.....	5T01 AM05409-13	41,364
ROSEN, KENNETH M.....	CARDIOLOGY.....	5T01 HL05879-06	104,320
SCHULMAN, MARTIN P.....	PHARMACOLOGY.....	5T01 GM00081-17	21,154
SCHULMAN, MARTIN P.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07115-01	21,254
WATERHOUSE, JOHN P.....	PATHOLOGY/BIOCHEMISTRY OF SOFT TISSUE DESTRUCTION.....	5T22 DE00179-02	62,305
ORGANIZATION TOTAL	9 547,245		
<b>EVANSTON</b>			
<b>NORTHWESTERN UNIVERSITY ZIP CODE 60201</b>			
CARHART, RAYMOND T.....	AUDIOLOGY.....	5T01 NS05329-15	103,200
JACOBS, JOHN E.....	BIOMEDICAL ENGINEERING.....	5T01 GM00874-14	177,288
SHEMIN, DAVID.....	BIOCHEMISTRY.....	5T01 GM00626-15	79,352
SHEMIN, DAVID.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07291-01	51,849
ORGANIZATION TOTAL	4 411,689		
<b>MAYWOOD</b>			
<b>LOYOLA UNIVERSITY MEDICAL CENTER ZIP CODE 60153</b>			
KARCZMAR, ALEXANDER G.....	PHARMACOLOGY.....	5T01 GM00077-15	65,160
MC DONALD, HUGH J.....	CLINICAL CHEMISTRY.....	1T01 GM02122-01A1	114,378
RANDALL, WALTER C.....	PHYSIOLOGY.....	5T01 GM00999-13	10,601
TOBIN, JOHN R.....	CARDIOVASCULAR DISEASES.....	5T01 HL05971-03	95,093
TOTO, PATRICK D.....	CLINICAL CANCER—DENTAL.....	5T12 CA08012-10	13,284
ORGANIZATION TOTAL	5 298,516		
<b>URBANA</b>			
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN ZIP CODE 61801</b>			
ARNTZEN, CHARLES.....	CELL BIOLOGY.....	5T01 GM00941-12	53,264
BIJOU, SIDNEY W.....	NORMAL AND RETARDED DEVELOPMENT.....	5T01 HD00244-07	125,072
DAVIS, CARL L.....	NUTRITION.....	5T01 GM00653-15	72,258
DE MOSS, RALPH D.....	MICROBIOLOGY.....	5T01 GM00510-16	67,292
DUCOFF, HOWARD S.....	RADIATION BIOPHYSICS & BIOENGINEERING IN ONCOLOGY.....	1T32 CA09067-01	67,941
DUNN, FLOYD.....	BIOENGINEERING.....	1T01 GM02271-01	45,888
EBREY, THOMAS G.....	PHYSIOLOGY AND BIOCHEMISTRY OF VISION.....	1T32 EY07005-01	33,245
EBREY, THOMAS G.....	BIOPHYSICS.....	5T01 GM00720-16	37,244
GUTOWSKY, HERBERT S.....	BIOPHYSICAL CHEMISTRY.....	5T01 GM00722-15	65,542
HAGER, LOWELL P.....	BIOCHEMISTRY.....	5T01 GM00321-16	99,186
HAGER, LOWELL P.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07283-01	242,861
LARSEN, JOSEPH R.....	PHYSIOLOGY AND TOXICOLOGY OF INSECTS.....	5T01 GM01076-13	50,004
LARSEN, JOSEPH R.....	COLLABORATIVE PROGRAMS IN PHARMACOLOGY AND TOXICOLOGY.....	1T32 GM07110-01	16,282
METCALF, ROBERT L.....	ENVIRONMENTAL STUDIES.....	1T32 ES07001-01	88,764
NALBANDOV, ANDREW V.....	ENDOCRINOLOGY AND PHYSIOLOGY OF REPRODUCTION.....	5T01 HD00181-09	42,940
O'NEILL, JOHN J.....	SPEECH PATHOLOGY AND AUDIOLOGY.....	5T01 NS05479-10	41,222
WILLIS, JOHN S.....	PHYSIOLOGY.....	5T01 GM00619-15	69,682

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>ILLINOIS—Con.</b>			
WILLIS, JOHN S.....	SYSTEMS AND INTEGRATIVE BIOLOGY.....	1T32 GM07143-01	23,951
ORGANIZATION TOTAL	18 1,242,638		
STATE TOTAL	96 7,193,696		
<b>INDIANA</b>			
<b>BLOOMINGTON</b>			
<b>INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT BLOOMINGTON ZIP CODE 47401</b>			
FRASER, W DEAN.....	MICROBIOLOGY.....	5T01 GM00503-16	26,368
GURD, FRANK R.....	BIOCHEMISTRY.....	5T01 GM01046-14	79,976
PUTNAM, FRANK W.....	MOLECULAR AND CELLULAR BIOLOGY.....	1T32 GM07227-01	97,812
RANDALL, JAMES.....	PHYSIOLOGY.....	5T01 GM02099-05	40,555
RHOADES, MARCUS M.....	GENETICS.....	5T01 GM00082-17	101,462
ORGANIZATION TOTAL	5 346,173		
<b>INDIANAPOLIS</b>			
<b>INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS ZIP CODE 46202</b>			
BIXLER, DAVID.....	ORAL-FACIAL GENETICS.....	5T22 DE00007-02	83,430
BROOKS, GEORGE F, JR.....	VENEREAL DISEASE.....	5T22 AI00030-02	75,168
DALY, WALTER J.....	CARDIOPULMONARY AND CARDIOVASCULAR MEDICINE.....	5T01 HL05363-15	83,062
DYKEN, MARK L, JR.....	NEUROLOGY.....	3T01 NS05021-18S1	800
DYKEN, MARK L, JR.....	NEUROLOGY.....	5T01 NS05021-19	15,390
FISCH, CHARLES.....	MEDICAL CARDIOLOGY.....	5T01 HL05749-09	96,336
FORNEY, ROBERT B.....	TOXICOLOGY.....	5T01 GM01089-12	30,084
FORNEY, ROBERT B.....	TOXICOLOGY.....	1T32 GM07097-01	32,568
JOHNSTON, CYRUS C.....	ENDOCRINOLOGY.....	5T01 AM05173-17	82,159
MERRITT, A DONALD.....	MEDICAL GENETICS.....	5T22 GM00008-02	36,144
MERRITT, A DONALD.....	MEDICAL GENETICS.....	5T01 GM01056-13	84,244
MITCHELL, DAVID F.....	ORAL MEDICINE.....	5T01 DE00228-07	48,048
PALMER, CATHERINE G.....	DENTAL GENETICS.....	5T01 DE00119-13	66,946
SHAFFER, WILLIAM G.....	CLINICAL CANCER—DENTAL.....	5T12 CA08006-10	36,199
ZEMAN, WOLFGANG.....	NEUROPATHOLOGY.....	5T01 NS05450-12	11,619
ORGANIZATION TOTAL	15 782,197		
<b>NOTRE DAME</b>			
<b>UNIVERSITY OF NOTRE DAME ZIP CODE 46556</b>			
BORKOWSKI, JOHN G.....	MENTAL RETARDATION.....	5T01 HD00329-02	46,548
POLLARD, MORRIS.....	TUMOR BIOLOGY IN GERM-FREE ANIMALS.....	1T32 CA09021-01	15,444
WEINSTEIN, PAUL P.....	PARASITOLOGY: BIOCHEMICAL, DEVELOPMENTAL, GENETIC.....	5T01 AI00400-05	58,216
ORGANIZATION TOTAL	3 120,208		
<b>WEST LAFAYETTE</b>			
<b>PURDUE UNIVERSITY ZIP CODE 47907</b>			
ALTMAN, JOSEPH.....	RETARDATION OF NEURAL AND BEHAVIORAL DEVELOPMENT.....	5T01 HD00427-02	94,806
AXELROD, BERNARD.....	BIOCHEMISTRY.....	5T01 GM01195-12	46,657
CHRISTIAN, JOHN E.....	ENVIRONMENTAL TOXICOLOGY.....	5T01 ES00071-09	219,511
MIYA, TOM S.....	PHARMACOLOGY AND TOXICOLOGY.....	1T32 GM07095-01	53,416
PAK, WILLIAM L.....	VISUAL PHYSIOLOGY AND CHEMISTRY.....	1T32 EY07008-01	33,044
PAK, WILLIAM L.....	BIOPHYSICS.....	5T01 GM00779-17	85,818
TESSMAN, IRWIN.....	MOLECULAR MECHANISMS OF CELL FUNCTIONS.....	1T32 GM07211-01	48,831
UMBARGER, H EDWIN.....	CELL BIOLOGY.....	5T01 GM01392-11	34,852

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>INDIANA—Con.</b>			
UMBARGER, H EDWIN.....	REGULATION OF GENE EXPRESSION.....	1T32 GM07076-01	50,312
ORGANIZATION TOTAL 9	667,247		
STATE TOTAL 32	1,915,825		
<b>IOWA</b>			
<b>IOWA CITY</b>			
UNIVERSITY OF IOWA	ZIP CODE 52242		
ABBOUD, FRANCOIS M.....	CARDIOVASCULAR DISEASES.....	1T32 HL07007-01	89,507
ABBOUD, FRANCOIS M.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	1T32 HL07121-01	77,818
BERG, JOHN W.....	CANCER EPIDEMIOLOGY.....	1T32 CA09000-01	36,188
BERG, JOHN W.....	CANCER EPIDEMIOLOGY.....	1T32 CA09027-01	15,293
BLODI, FREDERICK C.....	OPHTHALMOLOGY.....	5T01 EY00012-21	108,000
CHALKLEY, ROGER.....	MOLECULAR BIOLOGY OF TUMOR CELLS.....	1T32 CA09119-01	76,932
CHRISTENSEN, JAMES.....	GASTROENTEROLOGY.....	5T01 AM05390-13	118,075
CHRISTENSEN, JAMES.....	GASTROENTEROLOGY.....	1T32 AM07072-01	19,529
CONWAY, THOMAS W.....	GENETICS.....	1T32 GM07091-01	34,114
GRANNER, DARYL K.....	ENDOCRINOLOGY.....	5T01 AM05080-20	64,719
GRANNER, DARYL K.....	DIABETES AND ENDOCRINOLOGY.....	1T32 AM07018-01	19,529
HAYDEN, JESS, JR.....	DENTISTRY AND SPEECH PATHOLOGY—CLINICAL.....	5T01 DE00275-05	82,669
HOGBEN, C ADRIAN M.....	PHYSIOLOGY.....	5T01 GM00225-17	16,360
JANUARY, LEWIS E.....	CARDIOVASCULOGY.....	3T01 HL05729-08S2	23,868
JANUARY, LEWIS E.....	CARDIOVASCULOGY.....	5T01 HL05729-09	188,599
KESSEL, RICHARD G.....	DEVELOPMENTAL BIOLOGY.....	5T01 HD00152-10	59,921
LLINAS, RODOLFO R.....	NEUROBIOLOGY.....	5T01 NS05748-04	37,844
LONG, JOHN P.....	PHARMACOLOGY.....	5T01 GM00141-18	176,450
LONG, JOHN P.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07069-01	8,645
MC CABE, BRIAN F.....	OTOLARYNGOLOGY.....	5T01 NS05116-19	85,756
MENNINGER, JOHN R.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07228-01	55,151
MOLL, KENNETH L.....	SPEECH PATHOLOGY AND AUDIOLOGY.....	3T01 NS05425-12S1	1,880
MOLL, KENNETH L.....	SPEECH PATHOLOGY AND AUDIOLOGY.....	5T01 NS05425-13	117,539
MORRIS, HUGHLETT L.....	DENTISTRY & SPEECH PATHOLOGY.....	5T01 DE00276-05	70,585
OSBORNE, JAMES W.....	BIOMEDICAL RADIOLOGY.....	1T32 CA09125-01	63,337
PONSETI, IGNACIO V.....	ORTHOPEDIC SURGERY.....	5T01 AM05401-13	62,361
PONSETI, IGNACIO V.....	OSTEOARTHROPATHY.....	1T32 AM07075-01	19,529
ROBERTS, ROBERT J.....	CLINICAL PHARMACOLOGY.....	1T32 GM07013-01	39,057
VAN ALLEN, MAURICE W.....	NEUROLOGY.....	5T01 NS05007-22	42,435
VESTLING, CARL S.....	BIOCHEMISTRY.....	5T01 GM00550-15	80,136
WILLIAMS, TERENCE H.....	ANATOMICAL SCIENCES.....	5T01 GM00148-17	36,830
ORGANIZATION TOTAL 31	1,928,656		
STATE TOTAL 31	1,928,656		
<b>KANSAS</b>			
<b>KANSAS CITY</b>			
UNIVERSITY OF KANSAS	ZIP CODE 66103		
GRANTHAM, JARED J.....	IN VITRO STUDIES OF ISOLATED KIDNEY TUBULE PHYSIOLOGY.....	1T32 AM07065-01	19,529
PROUD, G O'NEIL.....	OTOLARYNGOLOGY.....	5T01 NS05487-11	91,670
RUTH, WILLIAM E.....	PULMONARY MEDICINE.....	5T01 HL05991-02	27,110
SCARPELLI, DANTE G.....	PATHOLOGY.....	5T01 GM01783-09	43,920
WALASZEK, EDWARD J.....	PHARMACOLOGY.....	5T01 GM00403-16	16,496

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>KANSAS—Con.</b>			
WALASZEK, EDWARD J.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07044-01	29,792
ZIEGLER, DEWEY K.....	NEUROLOGY.....	5T01 NS05023-21	14,058
ORGANIZATION TOTAL	7 242,575		
<b>LAWRENCE</b>			
UNIVERSITY OF KANSAS ZIP CODE 66045			
GIRARDEAU, FREDERIC L.....	MENTAL RETARDATION.....	5T01 HD00183-10	159,234
HOROWITZ, FRANCES D.....	DEVELOPMENT AND CHILD PSYCHOLOGY.....	5T01 HD00247-07	68,091
MERTES, MATHIAS P.....	MEDICINAL CHEMISTRY.....	5T01 GM01341-10	124,695
PARETSKY, DAVID.....	MICROBIOLOGY.....	5T01 GM00703-15	69,435
ORGANIZATION TOTAL	4 421,455		
<b>MANHATTAN</b>			
KANSAS STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE ZIP CODE 66506			
PITTINGER, THAD H.....	CELLULAR AND DEVELOPMENTAL BIOLOGY.....	5T01 HD00422-02	90,033
ORGANIZATION TOTAL	1 90,033		
STATE TOTAL	12 754,063		
<b>KENTUCKY</b>			
<b>LEXINGTON</b>			
UNIVERSITY OF KENTUCKY ZIP CODE 40506			
BLACKER, H MARTIN.....	NEUROLOGICAL SURGERY.....	5T01 NS05567-08	19,295
BOLLUM, FREDERICK J.....	BIOCHEMISTRY.....	5T01 GM01026-13	27,760
CLARK, DAVID B.....	NEUROLOGY.....	5T01 NS05588-09	25,691
LUKE, ROBERT G.....	NEPHROLOGY AND UROLOGY.....	5T01 AM05701-04	56,014
SURAWICZ, BORYS.....	MEDICAL CARDIOLOGY.....	5T01 HL05598-11	74,340
ORGANIZATION TOTAL	5 203,100		
STATE TOTAL	5 203,100		
<b>LOUISIANA</b>			
<b>NEW ORLEANS</b>			
LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS ZIP CODE 70119			
HESS, MELVIN.....	CELLULAR ASPECTS OF THE ANATOMICAL SCIENCES.....	5T01 DE00241-07	28,184
PADDISON, RICHARD M.....	CLINICAL NEUROLOGY.....	5T01 NS05089-21	33,435
SPITZER, JOHN J.....	METABOLIC AND MICROBIAL STUDIES IN TRAUMA AND BURNS.....	1T32 GM07029-01	39,057
SPITZER, JOHN J.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	1T32 HL07098-01	91,774
ORGANIZATION TOTAL	4 192,450		
TULANE UNIVERSITY ZIP CODE 70118			
BURCH, GEORGE E.....	CARDIOLOGY AND CARDIOVASCULAR MEDICINE.....	3T01 HL05278-16S2	3,456
BURCH, GEORGE E.....	CARDIOLOGY AND CARDIOVASCULAR MEDICINE.....	5T01 HL05278-17	13,608
FISHER, JAMES W.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07177-01	62,826
FISHER, JAMES W.....	HEMATOPHARMACOLOGY.....	5T01 HL05969-03	138,009
FRIEDMAN, LORRAINE.....	MEDICAL MYCOLOGY.....	5T01 AI00003-17	59,175
KREMENTZ, EDWARD T.....	SURGICAL ONCOLOGY.....	5T01 CA05108-14	58,681
ORIHIEL, THOMAS C.....	PARASITOLOGY AND MEDICAL ENTOMOLOGY.....	5T01 AI00002-15	71,359



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>LOUISIANA—Con.</b>			
TABB, HAROLD G.....	OTOLARYNGOLOGY.....	5T01 NS05384-14	57,287
YATES, ROBERT D.....	ANATOMY.....	5T01 GM00793-15	60,676
ZISKIND, MORTON M.....	CLINICAL PULMONARY PHYSIOLOGY AND PULMONARY DISEASES.....	5T01 HL05839-07	97,172
ORGANIZATION TOTAL	10 622,249		
STATE TOTAL	14 814,699		
<b>MAINE</b>			
<b>BAR HARBOR</b>			
JACKSON LABORATORY	ZIP CODE 04609		
BAILEY, DONALD W.....	GENETICS.....	5T01 GM02215-02	12,960
WAYMOUTH, CHARITY.....	GENETICS AND CANCER BIOLOGY.....	5T01 CA05013-18	78,849
WHITTEN, WESLEY K.....	REPRODUCTIVE PHYSIOLOGY.....	5T01 HD00395-03	25,645
ORGANIZATION TOTAL	3 117,454		
STATE TOTAL	3 117,454		
<b>MARYLAND</b>			
<b>BALTIMORE</b>			
JOHNS HOPKINS UNIVERSITY	ZIP CODE 21218		
BALL, WILMOT C, JR.....	PULMONARY DISEASES AND PHYSIOLOGY.....	5T01 HL05885-05	81,756
BANG, FREDERIK B.....	PARASITOLOGY AND MEDICAL ENTOMOLOGY.....	5T01 AI00020-18	85,080
BEER, MICHAEL.....	BIOPHYSICS.....	5T01 GM00716-16	71,940
BEER, MICHAEL.....	CELLULAR AND MOLECULAR BIOPHYSICS.....	IT32 GM07231-01	136,461
CARVER, DAVID H.....	INFECTIOUS DISEASES—PEDIATRIC.....	5T01 AI00461-03	69,844
CONLEY, C LOCKARD.....	HEMATOLOGY.....	5T01 AM05260-15	141,519
CONLEY, C LOCKARD.....	HEMATOLOGY.....	IT32 HL07143-01	101,491
ELKES, JOEL.....	BEHAVIORAL SCIENCES.....	5T01 GM02191-05	68,476
GANN, DONALD S.....	BIOMEDICAL ENGINEERING.....	5T01 GM00576-15	136,416
GANN, DONALD S.....	HORMONAL AND CARDIOVASCULAR RESPONSE TO INJURY.....	IT32 GM07031-01	38,021
GANN, DONALD S.....	BIOMEDICAL ENGINEERING.....	IT32 GM07057-01	31,759
GORDIS, LEON.....	CARDIOVASCULAR EPIDEMIOLOGY.....	IT32 HL07024-01	58,586
GURTNER, GAIL H.....	PULMONARY MEDICINE.....	IT17 HL07137-01	51,261
HAMBRICK, GEORGE W, JR.....	DERMATOLOGY.....	5T01 AM05266-16	65,714
HARRINGTON, WILLIAM F.....	CHEMICAL BIOLOGY.....	5T01 GM00057-18	263,400
HARRINGTON, WILLIAM F.....	DEVELOPMENTAL BIOLOGY.....	5T01 HD00139-09	227,643
HENDRIX, THOMAS R.....	GASTROENTEROLOGY.....	5T01 AM05095-18	89,435
HUANG, RU-CHIH C.....	AGE-DEPENDENT NUCLEO-CYTOPLASMIC INTERACTION.....	5T01 HD00326-05	73,365
JOHNSON, RICHARD T.....	NEUROLOGY.....	5T01 NS05300-16	38,694
JOHNSON, RICHARD T.....	NEUROVIROLOGY.....	IT32 NS07000-01	58,895
KAZAZIAN, HAIG H, JR.....	INTERDISCIPLINARY MEDICAL SCIENCES.....	5T01 GM00624-15	44,346
LENNARZ, WILLIAM J.....	BIOCHEMISTRY.....	5T01 GM00184-17	169,112
LIETMAN, PAUL S.....	CLINICAL PHARMACOLOGY.....	5T22 GM00182-02	76,464
LILJENFELD, ABRAHAM M.....	CANCER EPIDEMIOLOGY.....	5T01 CA05165-12	17,506
LILJENFELD, ABRAHAM M.....	CANCER EPIDEMIOLOGY.....	IT32 CA09002-01	93,647
LONG, DONLIN M.....	NEUROLOGICAL SURGERY.....	5T01 NS05505-10	21,131
MARGOLIS, SIMEON.....	ENDOCRINOLOGY, DIABETES AND METABOLOGY.....	IT32 AM07109-01	37,719
MAUMENEY, A EDWARD.....	OPHTHALMOLOGY.....	5T01 EY00025-17	122,576
MC KHANN, GUY M.....	CHILD NEUROLOGY.....	5T01 NS05663-05	39,343
MIGEON, CLAUDE J.....	PEDIATRIC ENDOCRINOLOGY AND METABOLISM.....	IT32 AM07116-01	19,529
MOSLEY, WILEY HENRY.....	POPULATION DYNAMICS.....	5T01 HD00109-10	227,083

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MARYLAND—Con.</b>			
MURPHY, EDMOND A .....	GENETICS (AS APPLIED TO DENTISTRY) .....	5T01 DE00193-10	33,760
MURPHY, EDMOND A .....	MEDICAL GENETICS .....	5T01 GM00795-18	134,340
NAGER, GEORGE T .....	OTOLOGY .....	5T01 NS05129-19	98,831
NATHANS, DANIEL .....	VIRAL CARCINOGENESIS .....	1T32 CA09139-01	83,862
NATHANSON, NEAL .....	NEUROVIROLOGY .....	5T01 NS05627-08	40,652
NORMAN, PHILIP S .....	BASIC AND CLINICAL IMMUNOLOGY .....	5T01 AI00423-05	133,025
RILEY, RICHARD L .....	CARDIOPULMONARY AND BEHAVIORAL PHYSIOLOGY .....	5T01 HL05453-15	107,889
ROSENQUIST, GLENN C .....	PEDIATRIC CARDIOLOGY .....	5T01 HL06005-02	89,372
ROSS, ALAN .....	BIOSTATISTICS .....	5T01 GM00041-22	146,648
ROSS, RICHARD S .....	MEDICAL CARDIOLOGY .....	3T01 HL05689-08S2	6,264
ROSS, RICHARD S .....	MEDICAL CARDIOLOGY .....	5T01 HL05689-09	51,406
ROSS, RICHARD S .....	MEDICAL CARDIOLOGY .....	3T01 HL05735-08S2	12,879
ROSS, RICHARD S .....	MEDICAL CARDIOLOGY .....	5T01 HL05735-09	71,197
RUBIN, ROBERT J .....	ENVIRONMENTAL TOXICOLOGY .....	5T01 ES00034-13	206,100
SACHS, MURRAY B .....	AUDITORY PROCESSES .....	1T32 NS07049-01	15,231
SCOTT, WILLIAM W .....	CANCER—UROLOGY .....	5T01 AM05674-15	54,807
STRANDBERG, JOHN D .....	LABORATORY ANIMAL MEDICINE .....	5T01 RR05007-08	72,260
TALALAY, PAUL .....	PHARMACOLOGY .....	5T01 GM01183-12	80,472
TALALAY, PAUL .....	MEDICAL SCIENTIST .....	1T32 GM07309-01	62,630
TALAMO, RICHARD C .....	ALLERGIC DISEASES .....	1T32 AI07007-01	17,999
TORGERSON, WARREN S .....	MATHEMATICAL PSYCHOLOGY .....	5T01 GM02148-05	50,568
TS'O, PAUL O .....	MOLECULAR/CELLULAR STUDIES OF CHEMICAL CARCINOGENESIS .....	1T32 CA09110-01	90,794
WAGNER, HENRY N, JR. ....	NUCLEAR INSTRUMENTATION AND CHEMISTRY .....	5T01 GM01496-10	133,380
WALKER, W GORDON .....	NEPHROLOGY .....	5T01 AM05655-05	43,258
WALKER, W GORDON .....	NUTRITIONAL AND METABOLIC ASPECTS OF RENAL DISEASE .....	1T32 AM07145-01	39,057
WHITE, ROBERT I, JR .....	CARDIOVASCULAR RADIOLOGY .....	5T01 HL05970-03	60,271
ZUIDEMA, GEORGE D .....	SURGERY .....	5T01 GM01541-10	117,596
ORGANIZATION TOTAL	58	4,812,760	
<b>MARYLAND MEDICAL-LEGAL FOUNDATION ZIP CODE 21201</b>			
FISHER, RUSSELL S .....	FORENSIC PATHOLOGY AND TOXICOLOGY .....	5T01 GM01218-19	51,135
ORGANIZATION TOTAL	1	51,135	
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND AT BALTIMORE ZIP CODE 21201</b>			
BARRACLOUGH, CHARLES A .....	PHYSIOLOGY .....	5T01 GM01075-13	24,676
BARRACLOUGH, CHARLES A .....	REPRODUCTIVE ENDOCRINOLOGY .....	5T01 HD00435-02	75,719
NELSON, ERLAND R .....	NEUROLOGY .....	5T01 NS05077-21	79,082
SHAY, DONALD E .....	DENTAL MICROBIOLOGY .....	5T01 DE00088-14	61,333
TRUMP, BENJAMIN F .....	EXPERIMENTAL PATHOLOGY .....	5T01 GM00431-15	12,900
WISSEMAN, CHARLES L, JR .....	VIROLOGY AND RICKETTSIOLOGY .....	5T01 AI00016-17	63,292
ORGANIZATION TOTAL	6	317,002	
STATE TOTAL	65	5,180,897	
<b>MASSACHUSETTS</b>			
<b>AMHERST</b>			
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS AT AMHERST ZIP CODE 01002</b>			
BLACK, DONALD L .....	MAMMALIAN REPRODUCTION .....	5T01 HD00204-07	53,538
HONIGBERG, BRONISLAW M .....	PARASITOLOGY AND MEDICAL ENTOMOLOGY .....	5T01 AI00226-13	49,980
THORNE, CURTIS B .....	MICROBIOLOGY .....	5T01 GM02168-05	41,284
ORGANIZATION TOTAL	3	144,802	

**Table 3.—NIH Training Grants, by Area, Organization, and Program  
Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MASSACHUSETTS—Con.</b>			
<b>BOSTON</b>			
<b>BETH ISRAEL HOSPITAL      ZIP CODE 02215</b>			
ABELMANN, WALTER H.....	MEDICAL CARDIOLOGY.....	5T01 HL05909-05	101,518
CRUMPACKER, CLYDE S.....	INFECTIOUS DISEASES.....	5T01 AI00350-09	111,485
FRAZIER, HOWARD S.....	RENAL PHYSIOLOGY AND MEMBRANE TRANSPORT.....	5T01 AM05555-09	57,666
FREIMAN, DAVID G.....	EXPERIMENTAL PATHOLOGY.....	5T01 GM00568-14	22,788
GLICKMAN, ROBERT M.....	GASTROENTEROLOGY.....	5T01 AM05114-18	88,100
ROBINSON, STEPHEN H.....	HEMATOLOGY.....	1T32 AM07026-01	39,057
SALZMAN, EDWIN W.....	CARDIOVASCULAR SURGERY.....	5T01 HL05422-16	49,127
SILEN, WILLIAM.....	ACADEMIC SURGERY.....	5T01 GM02019-07	92,785
ORGANIZATION TOTAL      8	562,526		
<b>BOSTON BIOMEDICAL RESEARCH INSTITUTE      ZIP CODE 02114</b>			
GERGELY, JOHN.....	ENERGY METABOLISM IN MUSCLE.....	5T01 HL05811-08	67,270
SANADI, D. RAO.....	BIOCHEMICAL AND BIOPHYSICAL BASIS OF AGING.....	5T01 HD00288-06	63,117
ORGANIZATION TOTAL      2	130,387		
<b>BOSTON UNIVERSITY      ZIP CODE 02215</b>			
BRODY, JEROME S.....	PULMONARY BIOCHEMISTRY AND CELL BIOLOGY.....	1T32 HL07035-01	58,586
COHEN, ALAN S.....	RHEUMATOLOGY.....	5T01 AM05285-15	96,172
COHEN, ALAN S.....	RHEUMATOLOGY.....	1T32 AM07014-01	19,529
EGDAHL, RICHARD H.....	ACADEMIC SURGERY.....	5T01 GM01498-10	165,397
FRANZBLAU, CARL.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	1T32 HL07052-01	24,367
GAENSLER, EDWARD A.....	RESPIRATORY DISEASE.....	5T01 HL05562-13	72,540
LEIBOWITZ, HOWARD M.....	OPHTHALMOLOGY.....	5T01 EY00042-10	67,861
LEVINSKY, NORMAN G.....	NEPHROLOGY.....	1T32 AM07053-01	39,057
MC CABE, WILLIAM R.....	ALLERGY AND INFECTIOUS DISEASE.....	5T01 AI00213-14	72,646
MESCON, HERBERT.....	DERMATOLOGY.....	5T01 AM07001-02	74,501
PETERS, ALAN.....	ANATOMY.....	5T01 GM01979-06	47,976
ROSMAN, NORMAN P.....	CHILD NEUROLOGY.....	5T01 NS05690-04	18,993
SINEX, F. MAROTT.....	BIOCHEMISTRY OF AGING.....	5T01 HD00207-07	76,198
ORGANIZATION TOTAL      13	833,823		
<b>CHILDREN'S HOSPITAL MEDICAL CENTER      ZIP CODE 02115</b>			
NADAS, ALEXANDER S.....	PEDIATRIC CARDIOLOGY.....	5T01 HL05855-06	136,355
NATHAN, DAVID G.....	HEMATOLOGY.....	5T01 AM05581-08	139,194
NATHAN, DAVID G.....	HEMATOLOGY.....	1T32 HL07146-01	102,083
SHELANSKI, MICHAEL L.....	DEVELOPMENTAL NEUROLOGY.....	1T32 NS07017-01	125,550
ORGANIZATION TOTAL      4	503,182		
<b>EYE RESEARCH INSTITUTE OF RETINA FOUNDATION      ZIP CODE 02114</b>			
DOHLMAN, CLAES H.....	PHYSIOLOGY AND BIOCHEMISTRY OF CORNEAL DISEASE.....	1T32 EY07018-01	42,016
ORGANIZATION TOTAL      1	42,016		
<b>HARVARD UNIVERSITY      ZIP CODE 02138</b>			
ABRAMS, HERBERT L.....	DIAGNOSTIC RADIOLOGY.....	5T01 GM01910-07	151,200
ABRAMS, HERBERT L.....	CLINICAL CARDIOVASCULAR RADIOLOGY.....	5T01 HL05832-07	67,392
ADELSTEIN, STANLEY JAMES.....	NUCLEAR MEDICINE.....	5T01 GM02201-05	67,193
AMOS, HAROLD.....	MICROBIAL PHYSIOLOGY AND GENETICS.....	5T01 GM00177-17	11,720
ARKY, RONALD A.....	METABOLIC DISEASES AND ENDOCRINOLOGY.....	5T01 AM05060-19	35,451
ARKY, RONALD A.....	METABOLIC DISEASES AND ENDOCRINOLOGY.....	5T01 AM05060-20	52,606
BARLOW, CHARLES F.....	NEUROLOGY AND CHILD NEUROLOGY.....	5T01 NS05185-16	87,852
BECKWITH, JONATHAN R.....	GENE EXPRESSION REGULATION IN PROKARYOTES & EUKARYOTES.....	1T32 GM07196-01	65,440
BENACERRAF, BARUJ.....	CELLULAR IMMUNOLOGY AND IMMUNOPATHOLOGY.....	3T01 AI00426-04S1	6,652
BENACERRAF, BARUJ.....	CELLULAR IMMUNOLOGY AND IMMUNOPATHOLOGY.....	5T01 AI00426-05	80,499
BENACERRAF, BARUJ.....	IMMUNOLOGY.....	1T32 CA09130-01	165,456
BJARNGARD, BENGT E.....	MEDICAL RADIOLOGICAL PHYSICS.....	1T32 CA09088-01	45,715

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MASSACHUSETTS—Con.</b>			
BUCKLEY, HELEN R.....	MICROBIOLOGY-MEDICAL MYCOLOGY AND IMMUNOLOGY.....	5T01 A100441-03	51,666
BUNN, H FRANKLIN.....	HEMATOLOGY.....	1T32 HL07142-01	41,424
COONS, ALBERT H.....	IMMUNOLOGY.....	1T32 CA09141-01	99,354
ERBE, RICHARD W.....	GENETICS.....	5T01 GM02249-03	62,640
FAWCETT, DON W.....	ANATOMICAL SCIENCES.....	5T01 GM00406-16	30,659
FISCHBACH, GERALD D.....	DEVELOPMENTAL NEUROBIOLOGY.....	1T32 NS07009-01	95,885
FISHER, CHARLES MILLER.....	NEUROLOGY.....	5T01 NS05075-21	144,360
FITZPATRICK, THOMAS B.....	DERMATOLOGY.....	5T01 AM05297-15	65,000
FITZPATRICK, THOMAS B.....	DERMATOLOGY.....	1T32 AM07098-01	19,529
GESCHWIND, NORMAN.....	NEUROLOGY.....	5T01 NS05074-21	34,689
GESCHWIND, NORMAN.....	SENSORY PHYSIOLOGY AND BIOPHYSICS.....	1T32 NS07011-01	37,260
GEYER, ROBERT P.....	NUTRITION IN CARDIOVASCULAR DISEASES.....	1T32 HL07064-01	103,265
GOLDBERG, IRVING H.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07306-01	56,013
GOLDHABER, PAUL.....	PERIDONTIA.....	1T32 DE07010-01	32,548
HELLMAN, SAMUEL.....	ACADEMIC RADIOTHERAPY.....	5T01 CA05237-05	210,255
HUANG, ALICE S.....	VIRUS-HOST INTERACTIONS IN CANCER.....	1T32 CA09031-01	120,770
HUTCHISON, GEORGE B.....	CANCER EPIDEMIOLOGY.....	1T32 CA09001-01	34,560
JONES, T CARL.....	VETERINARY AND COMPARATIVE PATHOLOGY.....	1T32 RR07000-01	53,337
KARNOVSKY, MANFRED L.....	BIOLOGICAL CHEMISTRY.....	5T01 GM00451-16	42,368
KARNOVSKY, MORRIS J.....	PATHOLOGY.....	5T01 GM01235-12	73,035
LITTLE, JOHN B.....	RADIATION BIOLOGY.....	1T32 CA09078-01	117,191
LOWN, BERNARD.....	CLINICAL AND COMMUNITY CARDIOLOGY.....	5T01 HL05242-17	130,140
MAC MAHON, BRIAN.....	CANCER EPIDEMIOLOGY.....	5T01 CA05225-07	10,195
MAC MAHON, BRIAN.....	EPIDEMIOLOGY.....	5T01 GM00007-19	9,232
MEAD, JERE.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	1T32 HL07118-01	86,630
MOORE, FRANCIS D.....	SURGERY.....	5T01 GM01561-10	99,360
MURPHY, SHELDON D.....	TOXICOLOGY.....	3T01 ES00045-10S1	11,493
MURRAY, EDWARD S.....	RICKETTSIOLOGY AND VIROLOGY.....	5T01 A100014-17	79,569
PALAY, SANFORD L.....	NEUROANATOMY.....	5T01 NS05591-09	59,358
PAPPENHEIMER, JOHN R.....	PHYSIOLOGY.....	5T01 GM00919-14	45,331
PAPPENHEIMER, JOHN R.....	SYSTEMS AND INTEGRATIVE BIOLOGY.....	1T32 GM07258-01	21,813
POTTER, DAVID D.....	NEUROBIOLOGY.....	5T01 NS05731-04	48,916
ROBINSON, STEPHEN H.....	HEMATOLOGY.....	5T01 AM05391-12	52,380
SHAW, JAMES H.....	ORAL BIOLOGY.....	3T01 DE00278-04S3	37,476
SHKLAR, GERALD.....	ORAL CANCER-CLINICAL.....	5T12 CA08159-02	40,116
SMITH, THOMAS W.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	1T32 HL07049-01	78,115
SOLOMON, ARTHUR K.....	BIOPHYSICS.....	5T01 GM00782-17	163,310
SPEIZER, FRANK E.....	CLINICAL EPIDEMIOLOGY OF HEART AND LUNG DISEASE.....	5T01 HL05998-02	135,800
STARE, FREDERICK J.....	EXPERIMENTAL, MEDICAL, AND PUBLIC HEALTH NUTRITION.....	5T01 GM00333-16	104,448
SWEENEY, EDWARD A.....	PEDIATRIC DENTISTRY-CLINICAL.....	5T01 DE00112-12	51,538
VALLEE, BERT L.....	MEDICAL SCIENTIST.....	1T05 GM02220-01	69,087
WELLER, THOMAS H.....	TROPICAL MEDICINE.....	5T01 A100177-12	66,912
WIESEL, TORSTEN N.....	BASIC NEUROBIOLOGICAL SCIENCES.....	3T01 EY00082-03S1	2,916
WIESEL, TORSTEN N.....	BASIC NEUROBIOLOGICAL SCIENCES.....	5T01 EY00082-04	98,953
YOUNG, DAVID M.....	CELLULAR AND DEVELOPMENTAL BIOLOGY.....	1T32 GM07226-01	154,767
ORGANIZATION TOTAL	57 4,020,839		
<b>JOSLIN DIABETES FOUNDATION ZIP CODE 02215</b>			
CAHILL, GEORGE F, JR.....	DIABETES AND METABOLOGY.....	3T01 AM05077-18S1	14,139
CAHILL, GEORGE F, JR.....	DIABETES AND METABOLOGY.....	5T01 AM05077-19	114,556
ORGANIZATION TOTAL	2 128,695		
<b>MASSACHUSETTS EYE AND EAR INFIRMARY ZIP CODE 02114</b>			
DOHLMAN, CLAES H.....	OPHTHALMOLOGY.....	5T01 EY00089-02	105,471
ORGANIZATION TOTAL	1 105,471		
<b>MASSACHUSETTS GENERAL HOSPITAL ZIP CODE 02114</b>			
AUSTEN, W GERALD.....	SURGERY.....	5T01 GM01719-10	99,330



**Table 3.—NIH Training Grants, by Area, Organization, and Program  
Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MASSACHUSETTS—Con.</b>			
BURKE, JOHN F.	RESEARCH IN BURNS AND TRAUMA	1T32 GM07035-01	55,480
CAULFIELD, JAMES B.	EXPERIMENTAL PATHOLOGY	5T01 GM02212-05	40,064
ERBE, RICHARD W.	RESEARCH IN DEVELOPMENTAL MEDICINE	5T01 HD00362-05	28,677
HOOP, BERNARD, JR.	RADIOLOGICAL PHYSICS	1T32 CA09076-01	38,021
ISSELBACHER, KURT J.	GASTROENTEROLOGY	5T01 AM05146-18	53,691
KAZEMI, HOMAYOUN	PULMONARY MEDICINE	3T01 HL05767-05S2	11,664
KAZEMI, HOMAYOUN	PULMONARY MEDICINE	5T01 HL05767-06	98,064
KITZ, RICHARD J.	ANESTHESIOLOGY	5T01 GM01273-12	119,070
KRANE, STEPHEN M.	CONNECTIVE TISSUE, STRUCTURE, FUNCTION AND DISEASE	5T01 AM05067-20	82,242
LEAF, ALEXANDER	NEPHROLOGY	5T01 AM05605-08	59,994
POTTS, JOHN T, JR.	ENDOCRINOLOGY AND METABOLISM	1T32 AM07028-01	39,057
RICHARDSON, EDWARD P, JR.	NEUROPATHOLOGY	5T01 NS05393-13	50,035
ROBBINS, LAURENCE L.	DIAGNOSTIC RADIOLOGY	5T01 GM01339-09	99,032
SWARTZ, MORTON N.	INFECTIOUS DISEASE AND IMMUNOLOGY	5T01 AI00215-14	89,353
TAVERAS, JUAN M.	NEURORADIOLOGY	5T01 NS05734-04	32,146
ORGANIZATION TOTAL	16	995,920	
<b>NEW ENGLAND MEDICAL CENTER HOSPITAL ZIP CODE 02111</b>			
BLOEDORN, FERNANDO G.	RADIATION ONCOLOGY	1T32 CA09045-01	108,888
FANBURG, BARRY L.	MULTIDISCIPLINARY RESPIRATORY DISEASES	1T32 HL07053-01	21,008
LEVINE, HERBERT J.	PATHOPHYSIOLOGY OF CLINICAL HEART DISEASE	5T01 HL05780-08	51,312
NECHELES, THOMAS F.	CHEMOTHERAPY OF CHILDHOOD MALIGNANCIES	1T32 CA09077-01	58,882
RABEN, MAURICE S.	MEDICAL CARDIOLOGY	3T01 HL05391-15S2	4,773
RABEN, MAURICE S.	MEDICAL CARDIOLOGY	5T01 HL05391-16	95,913
REICHLIN, SEYMOUR	CLINICAL AND BASIC NEUROENDOCRINOLOGY	1T32 AM07039-01	39,057
SCHWARTZ, BERNARD	VISUAL SCIENCES	5T01 EY00054-07	57,533
ORGANIZATION TOTAL	8	437,366	
<b>PETER BENT BRIGHAM HOSPITAL ZIP CODE 02115</b>			
COTRAN, RAMZI S.	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES	1T32 HL07066-01	58,587
INGRAM, ROLAND H, JR.	RESPIRATORY MEDICINE	1T32 HL07010-01	82,849
MERRILL, JOHN P.	NEPHROLOGY	5T01 AM05700-04	68,271
MOLONEY, WILLIAM C.	CLINICAL CANCER	5T12 CA08158-02	71,115
TRIER, JERRY S.	ALIMENTOLOGY	1T32 AM07121-01	38,592
ORGANIZATION TOTAL	5	319,414	
<b>ROBERT B. BRIGHAM HOSPITAL ZIP CODE 02120</b>			
AUSTEN, K FRANK	IMMUNOLOGIC BASIS OF RESISTANCE AND HYPERSENSITIVITY	5T01 AI00366-07	108,237
AUSTEN, K FRANK	MECHANISMS OF ARTHRITIC AND DERMATOLOGIC DISORDERS	1T32 AM07031-01	19,529
BAYLES, THEODORE B.	RHEUMATOLOGY	5T01 AM05076-20	85,675
ORGANIZATION TOTAL	3	213,441	
<b>SIDNEY FARBER CANCER CENTER ZIP CODE 02115</b>			
FREI, EMIL, III	CANCER CHEMOTHERAPY	1T32 CA09172-01	207,468
ORGANIZATION TOTAL	1	207,468	
<b>ST. ELIZABETH'S HOSPITAL OF BOSTON ZIP CODE 02135</b>			
EBBE, SHIRLEY N.	HEMATOLOGY	5T01 HL05600-11	94,028
ORGANIZATION TOTAL	1	94,028	
<b>TUFTS UNIVERSITY ZIP CODE 02111</b>			
CATALDO, EDMUND F.	CLINICAL CANCER—DENTAL	5T12 CA08014-10	43,983
LESKOWITZ, SIDNEY	IMMUNOLOGIC ASPECTS OF DISEASE	5T01 AI00436-04	71,630
PARK, JAMES T.	BIOCHEMICAL MICROBIOLOGY	5T01 GM01136-10	68,063
PARK, JAMES T.	MOLECULAR BIOLOGY OF BASIC CELL FUNCTIONS	1T32 GM07310-01	50,137
SULLIVAN, JOHN F.	NEUROLOGY	5T01 NS05022-21	80,082
WALLACH, DONALD F.	MEMBRANE BIOLOGY AND MEMBRANE PATHOLOGY	1T32 GM07027-01	60,509
WHITE, GEORGE E.	PEDODONTICS—CLINICAL	5T01 DE00280-05	72,360

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MASSACHUSETTS—Con.</b>			
ORGANIZATION TOTAL	7	446,764	
<b>CAMBRIDGE</b>			
HARVARD UNIVERSITY	ZIP CODE 02138		
BLOCH, KONRAD E.....	CHEMISTRY.....	5T01 GM00700-15	94,688
DEVORE, IRVEN.....	BIOLOGICAL ANTHROPOLOGY.....	5T01 GM01938-05	64,304
DOTY, PAUL M.....	BIOCHEMISTRY AND MOLECULAR BIOLOGY.....	5T01 GM00138-18	194,744
DOWLING, JOHN E.....	MULTIBIOLOGICAL SCIENCES.....	5T01 GM00036-18	147,152
JENKINS, FARISH A, JR.....	BIOLOGY OF THE MUSCULOSKELETAL SYSTEM.....	1T32 GM07117-01	37,167
MAFATOS, FOTIS C.....	DEVELOPMENTAL BIOLOGY.....	5T01 HD00415-04	130,724
ORGANIZATION TOTAL	6	668,779	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ZIP CODE 02139		
BIEMANN, KLAUS.....	BIOPHYSICAL SCIENCES.....	5T01 GM01523-10	57,807
BROWN, GENE M.....	BIOLOGICAL SCIENCES.....	1T32 GM07287-01	176,582
BUCHI, GEORGE H.....	CARCINOGENESIS AND DRUG DEVELOPMENT.....	1T32 CA09112-01	209,591
LETTVIN, JEROME Y.....	PHYSIOLOGY OF VISION.....	5T01 EY00090-02	86,906
LURIA, SALVADOR E.....	MICROBIOLOGY.....	5T01 GM00602-16	79,996
MILLER, SANFORD A.....	ORAL SCIENCE, NUTRITION AND METABOLISM.....	5T22 DE00049-02	33,021
MILLER, SANFORD A.....	ORAL SCIENCE, BIOCHEMISTRY & METABOLISM.....	5T01 DE00105-13	108,712
MUNRO, HAMISH N.....	BASIC NUTRITION.....	1T32 AM07095-01	32,148
MUNRO, HAMISH N.....	NUTRITION.....	5T01 GM01337-10	61,192
PENMAN, SHELTON.....	MULTIDISCIPLINARY CELL BIOLOGY.....	5T01 GM00710-15	103,432
ROBBINS, PHILLIPS W.....	BIOCHEMISTRY.....	5T01 GM00515-15	123,997
SCRIMSHAW, NEVIN S.....	CLINICAL NUTRITION.....	5T01 AM05371-13	110,660
SHAPIRO, ASCHER H.....	BIOMEDICAL ENGINEERING.....	5T01 GM02136-06	58,164
SIEBERT, WILLIAM M.....	COMMUNICATIONS BIOENGINEERING.....	5T01 GM01555-09	57,400
SIEBERT, WILLIAM M.....	SYSTEM AND INTEGRATIVE BIOLOGY.....	1T32 GM07301-01	116,103
STEVENS, KENNETH N.....	SPEECH SCIENCES.....	1T32 NS07040-01	53,962
TEUBER, HANS-LUKAS.....	PSYCHOBIOLOGY.....	5T01 GM01064-14	136,736
WANG, DANIEL I C.....	BIOCHEMICAL ENGINEERING.....	5T01 ES00063-10	83,001
WAUGH, DAVID F.....	BIOPHYSICS.....	5T01 GM00778-19	153,363
WOGAN, GERALD N.....	ENVIRONMENTAL AND FOOD TOXICOLOGY.....	1T32 ES07020-01	138,249
ORGANIZATION TOTAL	20	1,981,022	
<b>WALTHAM</b>			
BRANDEIS UNIVERSITY	ZIP CODE 02154		
ABELES, ROBERT H.....	NEUROCHEMISTRY.....	5T01 NS05241-17	69,402
DYBWAD, GUNNAR.....	MENTAL RETARDATION.....	5T01 HD00146-07	98,361
GIBBS, MARTIN.....	MICROBIOLOGY.....	5T01 GM01586-09	54,237
HALVORSON, HARLYN O.....	GENETIC AND BIOCHEMICAL MECHANISMS OF REGULATION.....	1T32 GM07122-01	55,356
LEVINE, LAWRENCE.....	BIOCHEMISTRY.....	5T01 GM00212-17	170,800
ORGANIZATION TOTAL	5	448,156	
EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION	ZIP CODE 02154		
MILUNSKY, AUBREY.....	MEDICAL GENETICS.....	1T32 GM07015-01	37,800
ORGANIZATION TOTAL	1	37,800	
<b>WOODS HOLE</b>			
MARINE BIOLOGICAL LABORATORY	ZIP CODE 02543		
EBERT, JAMES D.....	EMBRYOLOGY.....	5T01 HD00014-14	67,862
ORGANIZATION TOTAL	1	67,862	
STATE TOTAL	165	12,389,761	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MICHIGAN</b>			
<b>ANN ARBOR</b>			
<b>UNIVERSITY OF MICHIGAN</b>	<b>ZIP CODE 48104</b>		
ABELL, MURRAY R.	CLINICAL CANCER—MEDICAL	5T12 CA08098-10	74,177
ALPERN, MATHEW	VISION RESEARCH	1T32 EY07022-01	38,612
AVERY, JAMES K.	DENTISTRY	5T01 DE00013-18	75,721
BEIERWALTES, WILLIAM H.	NUCLEAR MEDICINE	1T32 CA09015-01	78,115
BERNSTEIN, ISADORE A.	EPIDERMAL BIOCHEMISTRY	5T01 AM05268-14	71,714
BOETTNER, EDWARD A.	ENVIRONMENTAL HEALTH SCIENCES	5T01 ES00138-05	235,230
BOHR, DAVID F.	CARDIOVASCULAR PHYSIOLOGY	5T01 HL05682-09	34,261
BURCKHALTER, JOSEPH	MEDICINAL CHEMISTRY	5T01 GM02010-07	59,204
COHEN, BENNETT J.	LABORATORY ANIMAL SCIENCE	5T01 RR05001-13	65,350
COOMBS, CLYDE H.	MATHEMATICAL PSYCHOLOGY	5T01 GM01231-12	134,015
COON, MINOR J.	BIOCHEMISTRY	5T01 GM00187-17	137,372
CRAIG, ROBERT G.	RESTORATIVE DENTAL MATERIALS	5T01 DE00181-10	58,226
DE JONG, RUSSELL N.	NEUROLOGY	5T01 NS05004-25	30,994
EDMONSON, GLENN V.	BIOMEDICAL ENGINEERING	5T01 GM01289-12	133,986
FAJANS, STEFAN S.	ENDOCRINOLOGY AND METABOLISM	5T01 AM05001-20	72,111
HAGEN, JOHN W.	DEVELOPMENTAL PSYCHOLOGY	5T01 HD00149-09	102,232
HAWKINS, JOSEPH E, JR.	PHYSIOLOGICAL ACOUSTICS	5T01 NS05679-05	17,871
HIGUCHI, WILLIAM I.	PHYSICAL PHARMACEUTICAL CHEMISTRY	5T01 DE00204-09	38,304
JACQUEZ, JOHN A.	PHYSIOLOGY	5T01 GM00353-16	46,047
JACQUEZ, JOHN A.	SYSTEMS AND INTEGRATIVE BIOLOGY	1T32 GM07106-01	64,273
KERR, DONALD A.	CLINICAL CANCER—DENTAL	5T12 CA08092-10	19,128
LA DU, BERT	PHARMACOLOGY	5T01 GM00198-17	126,021
LEVINE, MYRON	MOLECULAR AND CELL BIOLOGY—HEALTH SCIENCES	1T32 GM07315-01	70,930
MIDGLEY, A REES	REPRODUCTIVE ENDOCRINOLOGY	1T32 HD07048-01	92,055
MOYERS, ROBERT E.	CRANIOFACIAL ANOMALIES	5T22 DE00193-02	54,770
NEEL, JAMES V.	GENETICS	5T01 GM00071-18	197,450
NEEL, JAMES V.	GENETICS	1T32 GM07123-01	110,958
NEIDHARDT, FREDERICK C.	MICROBIOLOGY	5T01 GM02204-05	64,162
ONCLEY, J LAWRENCE	BIOPHYSICS	5T01 GM01355-11	35,152
RHODIN, JOHANNES A G	ANATOMICAL SCIENCES	5T01 GM00312-15	95,260
ROWE, THOMAS D.	PHARMACEUTICAL SCIENCES	5T01 GM01367-11	8,180
SIMMONS, GEORGE B.	ECONOMIC DEMOGRAPHY	5T01 HD00377-06	96,426
WORK, WALTER P.	OTOLARYNGOLOGY	5T01 NS05230-16	50,004
ORGANIZATION TOTAL	33	2,588,311	
<b>DETROIT</b>			
<b>SINAI HOSPITAL OF DETROIT</b>	<b>ZIP CODE 48235</b>		
FOA, PIERO P.	DIABETES	5T01 AM05474-11	20,468
ORGANIZATION TOTAL	1	20,468	
<b>WAYNE STATE UNIVERSITY</b>	<b>ZIP CODE 48202</b>		
LERNER, A MARTIN	VIROLOGY AND INFECTIOUS DISEASES	5T01 AI00261-12	53,132
MARKS, BERNARD H.	PHARMACOLOGY	1T32 GM07176-01	19,654
ORGANIZATION TOTAL	2	72,786	
<b>EAST LANSING</b>			
<b>MICHIGAN STATE UNIVERSITY</b>	<b>ZIP CODE 48823</b>		
BARKER, ROBERT	BIOCHEMISTRY	5T01 GM01091-13	95,712
BRODY, THEODORE M.	PHARMACOLOGY	5T01 GM01761-09	62,986
HADDY, FRANCIS J.	CARDIOVASCULAR PHYSIOLOGY AND PATHOPHYSIOLOGY	3T01 HL05873-05S2	15,660
HADDY, FRANCIS J.	CARDIOVASCULAR PHYSIOLOGY AND PATHOPHYSIOLOGY	5T01 HL05873-06	99,484
JOHNSON, JOHN I, JR.	BIOPHYSICS	5T01 GM01422-11	36,352

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MICHIGAN—Con.</b>			
MICHELAKIS, ANDREW M .....	CLINICAL PHARMACOLOGY .....	1T32 GM07096-01	39,042
SADOFF, HAROLD L .....	MICROBIOLOGY .....	5T01 GM01911-08	53,512
THOMAS, J W .....	NUTRITION .....	5T01 GM01818-07	102,121
ZACKS, JAMES L .....	SENSORY PROCESSES AND PERCEPTION .....	5T01 GM01819-07	11,804
ORGANIZATION TOTAL	9 516,673		
STATE TOTAL	45 3,198,238		
<b>MINNESOTA</b>			
<b>MINNEAPOLIS</b>			
UNIVERSITY OF MINNESOTA	ZIP CODE 55455		
ACKERMAN, EUGENE .....	HEALTH COMPUTER SCIENCES .....	5T01 LM00160-02	115,319
AMPLATZ, KURT .....	CARDIOVASCULAR RADIOLOGY—CLINICAL .....	5T01 HL05853-06	25,864
BAKER, ABE B .....	NEUROLOGY .....	5T01 NS05002-26	51,605
BEVIS, RICHARD R .....	DENTISTRY—CLINICAL .....	5T01 DE00143-12	55,331
BLACKSHEAR, PERRY L .....	BIOMEDICAL AND ENGINEERING CARDIOVASOLOGY .....	5T01 HL05700-09	91,787
CHOU, SHELLEY N .....	NEUROSURGERY .....	5T01 NS05546-10	87,852
DOE, RICHARD P .....	DIABETES AND ENDOCRINOLOGY .....	5T01 AM05002-21	70,957
FRANTZ, IVAN D, JR .....	CARDIOVASCULAR DISEASES .....	5T01 HL05695-09	16,599
GOLDBERG, NELSON D .....	CELL MEMBRANCE AND BIOLOGICAL CONTROL .....	5T22 GM00201-02	67,679
GOLTZ, ROBERT W .....	DERMATOLOGY .....	5T01 AM05560-09	50,000
HARRIS, JOHN E .....	OPHTHALMOLOGY .....	5T01 EY00027-17	78,144
KENNEDY, BYRL J .....	ONCOLOGY IN INTERNAL MEDICINE .....	5T01 CA05158-13	90,629
KENNEDY, BYRL J .....	CLINICAL CANCER .....	5T12 CA08101-09	87,977
KJELSBURG, MARCUS O .....	BIOMETRY OF CARDIOVASCULAR CLINICAL TRIALS .....	1T32 HL07023-01	18,493
KRIVIT, WILLIAM .....	HEMATOLOGY .....	1T32 HL07145-01	39,945
LAZAROW, ARNOLD .....	DIABETES .....	5T01 AM05127-14	38,608
LAZAROW, ARNOLD .....	ANATOMICAL SCIENCES .....	5T01 GM00114-18	78,394
LORBER, VICTOR .....	CARDIOVASCULAR PHYSIOLOGY .....	5T01 HL05138-19	51,532
LUCAS, RUSSELL V, JR .....	PEDIATRIC RADIOLOGY—CLINICAL .....	5T01 HL05996-02	99,814
MARKLAND, ALAN C .....	UROLOGY .....	5T01 AM05514-10	40,892
NAJARIAN, JOHN S .....	CANCER .....	5T01 CA05005-19	186,307
NAJARIAN, JOHN S .....	IMMUNOLOGY AND ITS RELATION TO SURGERY .....	1T32 CA09024-01	19,529
NAJARIAN, JOHN S .....	ACADEMIC SURGEONS .....	5T01 GM01520-10	147,232
PAPARELLA, MICHAEL M .....	OTOLARYNGOLOGY .....	5T01 NS05349-15	129,362
PETERSON, HAROLD O .....	NEURORADIOLOGY .....	5T01 NS05422-10	19,517
PICK, HERBERT L, JR .....	HUMAN LEARNING .....	5T01 HD00098-11	163,649
PLAGEMANN, PETER G .....	MICROBIOLOGY—CANCER .....	1T32 CA09138-01	117,462
POPPEL, RICHARD E .....	PHYSIOLOGY .....	5T01 GM00572-15	37,065
SCHACHTELE, CHARLES F .....	DENTISTRY .....	1T32 DE07014-01	85,190
SHIDEMAN, FREDERICK .....	PHARMACOLOGY AND TOXICOLOGY .....	5T01 GM01117-13	213,242
SWAIMAN, KENNETH F .....	CHILD NEUROLOGY .....	5T01 NS05421-10	64,607
TERZUOLO, CARLO A .....	NEUROPHYSIOLOGY .....	5T01 NS05494-11	59,198
VAN PILSUM, JOHN F .....	BIOCHEMISTRY .....	5T01 GM00157-16	13,872
VERNIER, ROBERT L .....	NEPHROLOGY .....	5T01 AM05671-05	86,005
VERNIER, ROBERT L .....	PEDIATRIC NEPHROLOGY .....	1T32 AM07087-01	19,529
WANNAMAKER, LEWIS W .....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES .....	1T32 HL07116-01	97,873
WATSON, DENNIS W .....	MICROBIOLOGY .....	5T01 GM00966-14	48,987
WEAVER, LAWRENCE C .....	PHARMACEUTICAL SCIENCE .....	5T01 GM02064-05	74,964
YUNIS, JORGE J .....	MEDICAL GENETICS .....	5T22 GM00025-02	54,000
ORGANIZATION TOTAL	39 2,895,011		



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MINNESOTA—Con.</b>			
<b>ROCHESTER</b>			
<b>AMERICAN ACADEMY OF OPHTHALMOLOGY AND OTOLARYNGOLOGY      ZIP CODE 55901</b>			
ZIMMERMAN, LORENZ E.....	OPHTHALMIC PATHOLOGY.....	5T01 EY00032-14	111,259
ORGANIZATION TOTAL      1	111,259		
<b>MAYO FOUNDATION      ZIP CODE 55901</b>			
DARLEY, FREDERIC L.....	SPEECH PATHOLOGY.....	5T01 NS05446-12	24,927
HYATT, ROBERT E.....	PULMONARY PHYSIOLOGY AND THORACIC DISEASES.....	5T01 HL05930-04	75,159
KNOX, FRANKLYN G.....	NEPHROLOGY.....	1T32 AM07013-01	19,529
LAMBERT, EDWARD H.....	NEUROPHYSIOLOGY.....	5T01 NS05279-16	31,479
MANN, KENNETH G.....	BLOOD BANKING SCIENCES AND RELATING PROGRAMS.....	1T32 HL07069-01	52,372
MC DUFFIE, FREDERIC C.....	ARTHRITIS.....	1T32 AM07034-01	39,057
SUMMERSKILL, WILLIAM H.....	GASTROENTEROLOGY.....	5T01 AM05259-15	89,394
TANCREDI, ROBERT G.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	1T32 HL07111-01	55,480
TOMASI, THOMAS B, JR.....	TUMOR IMMUNOLOGY.....	1T32 CA09127-01	58,586
WHISNANT, JACK P.....	ACADEMIC NEUROLOGY.....	5T01 NS05182-17	97,529
ORGANIZATION TOTAL      10	543,512		
<b>SAINT PAUL</b>			
<b>UNITED HOSPITALS      ZIP CODE 55102</b>			
EDWARDS, JESSE E.....	CARDIOVASCULAR PATHOLOGY.....	5T01 HL05570-13	32,965
ORGANIZATION TOTAL      1	32,965		
<b>UNIVERSITY OF MINNESOTA      ZIP CODE 55455</b>			
BLOOMFIELD, VICTOR A.....	CHEMICAL BASES OF CELL AND MOLECULAR BIOLOGY.....	1T32 GM07323-01	108,925
FORRO, FREDERICK, JR.....	GENETICS AND CELL BIOLOGY.....	5T01 GM01156-13	96,938
FORRO, FREDERICK, JR.....	GENETIC MECHANISMS AND REGULATION.....	1T32 GM07094-01	32,719
TESTER, JOHN R.....	VERTEBRATE BEHAVIOR AND ECOLOGY.....	5T01 GM01779-09	117,968
WEBER, ALVIN F.....	VETERINARY ANATOMY.....	5T01 GM00386-16	39,099
WOLD, FINN.....	BIOPHYSICAL SCIENCE & GENERAL BIOCHEMISTRY.....	5T01 GM00345-16	38,453
ORGANIZATION TOTAL      6	434,102		
STATE TOTAL      57	4,016,849		
<b>MISSISSIPPI</b>			
<b>JACKSON</b>			
<b>UNIVERSITY OF MISSISSIPPI MEDICAL CENTER      ZIP CODE 39216</b>			
ANDY, ORLANDO J.....	EXPERIMENTAL NEUROLOGICAL SURGERY.....	5T01 NS05411-13	69,654
CURRIER, ROBERT D.....	NEUROLOGY.....	5T01 NS05215-15	4,313
GUYTON, ARTHUR C.....	PHYSIOLOGY.....	5T01 GM00316-16	33,120
GUYTON, ARTHUR C.....	CARDIOVASCULAR PHYSIOLOGY.....	5T01 HL05184-17	82,406
KLEIN, RICHARD L.....	PHARMACOLOGY.....	5T01 GM00359-15	45,184
MORRISON, FRANCIS S.....	CLINICAL CANCER.....	5T12 CA08051-09	85,911
ORGANIZATION TOTAL      6	320,588		
<b>UNIVERSITY</b>			
<b>UNIVERSITY OF MISSISSIPPI      ZIP CODE 38677</b>			
GILMORE, W FRANKLIN.....	PHARMACEUTICAL SCIENCES.....	1T32 GM07099-01	39,224
ORGANIZATION TOTAL      1	39,224		
STATE TOTAL      7	359,812		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MISSOURI</b>			
<b>COLUMBIA</b>			
<b>CANCER RESEARCH CENTER      ZIP CODE 65201</b>			
SPRATT, JOHN S, JR.....	CLINICAL CANCER-MEDICAL.....	5T12 CA08018-06	120,848
ORGANIZATION TOTAL      1	120,848		
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT COLUMBIA      ZIP CODE 65201</b>			
DAVIS, JAMES O.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	1T32 HL07094-01	83,189
MIDDLETON, CHARLES C.....	LABORATORY ANIMAL MEDICINE.....	5T01 RR05006-08	57,629
ORGANIZATION TOTAL      2	140,818		
<b>KANSAS CITY</b>			
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT KANSAS CITY      ZIP CODE 64110</b>			
PETERSON, WARREN A.....	ADULT DEVELOPMENT AND AGING.....	5T01 HD00175-08	146,675
ORGANIZATION TOTAL      1	146,675		
<b>SAINT LOUIS</b>			
<b>CENTRAL INSTITUTE FOR THE DEAF      ZIP CODE 63110</b>			
SILVERMAN, S RICHARD.....	MEDICAL AUDIOLOGY.....	5T01 NS05344-15	5,446
ORGANIZATION TOTAL      1	5,446		
<b>JEWISH HOSPITAL OF ST. LOUIS      ZIP CODE 63178</b>			
LUBOWITZ, HERBERT.....	CARDIOVASCULAR-COAGULATION PROBLEMS IN NEPHROLOGY.....	5T01 HL06008-02	56,000
OLIVER, G CHARLES.....	ACADEMIC CARDIOLOGY.....	5T01 HL06011-02	36,880
ORGANIZATION TOTAL      2	92,880		
<b>ST. LOUIS UNIVERSITY      ZIP CODE 63103</b>			
HORENSTEIN, SIMON.....	NEUROLOGY.....	5T01 NS05415-09	24,317
OLSON, ROBERT E.....	BIOCHEMISTRY.....	5T01 GM00446-16	69,142
OLSON, ROBERT E.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	1T32 HL07050-01	189,756
ORGANIZATION TOTAL      3	283,215		
<b>UNIVERSITY CITY</b>			
<b>WASHINGTON UNIVERSITY      ZIP CODE 63130</b>			
ALPERS, DAVID H.....	CLINIC/LABORATORY-ACADEMIC GASTROENTEROLOGY.....	1T32 AM07130-01	19,529
AVIOLI, LOUIS V.....	MINERAL AND SKELETAL METABOLISM.....	1T32 AM07033-01	39,057
BALLINGER, WALTER F, II.....	SURGERY.....	5T01 GM00371-15	87,331
BAUER, WALTER C.....	TUMOR BIOLOGY—MULTIRESOURCE PROGRAM.....	1T32 CA09118-01	137,559
BOTWINICK, JACK.....	AGING AND DEVELOPMENT.....	5T01 HD00047-18	150,529
BRADSHAW, RALPH A.....	BIOCHEMISTRY.....	5T01 GM01311-11	85,164
BRADSHAW, RALPH A.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07067-01	73,471
COWAN, W MAXWELL.....	VISION RESEARCH.....	5T01 EY00092-02	138,854
COWAN, W MAXWELL.....	ANATOMICAL SCIENCES.....	5T01 GM02025-05	41,944
COWAN, W MAXWELL.....	NEUROBIOLOGY.....	5T01 NS05613-08	28,366
DAUGHADAY, WILLIAM H.....	DIABETES AND OTHER METABOLIC DISEASES.....	5T01 AM05027-20	175,411
DAUGHADAY, WILLIAM H.....	DIABETES AND RELATED METABOLIC DISEASES.....	1T32 AM07120-01	39,057
DAVIE, JOSEPH M.....	IMMUNOLOGY AND MEMBRANES.....	1T32 GM07157-01	70,027
DODGE, PHILIP R.....	PEDIATRIC NEUROLOGY.....	5T01 NS05633-08	118,139
EISEN, ARTHUR Z.....	DERMATOLOGY.....	5T01 AM05611-08	37,152
ELIASSON, SVEN G.....	BASIC NEUROLOGICAL SCIENCES.....	5T01 NS05378-14	47,936
GADO, MOKHTAR H.....	NEURORADIOLOGY.....	5T01 NS05522-10	32,774
GLASER, LUIS.....	MEDICAL SCIENTIST.....	1T32 GM07200-01	97,616
GOLDRING, SIDNEY.....	NEUROLOGICAL SURGERY.....	5T01 NS05580-09	57,344
HAHN, BEVRA H.....	RHEUMATOLOGY.....	5T01 AM05548-09	56,958

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>MISSOURI—Con.</b>			
HUNT, CARLTON C .....	PHYSIOLOGY .....	5T01 GM02081-05	34,094
HUNT, CARLTON C .....	NEUROPHYSIOLOGY .....	5T01 NS05644-07	10,055
KLahr, SAULO .....	RENAL DISEASES .....	5T01 AM05248-15	113,666
KLahr, SAULO .....	RENAL DISEASES .....	1T32 AM07126-01	19,529
LACY, PAUL E. ....	ENVIRONMENTAL PATHOBIOLOGY .....	5T01 ES00128-08	147,773
LACY, PAUL E. ....	PATHOLOGY .....	5T01 GM00897-15	134,621
LANDAU, WILLIAM M .....	NEUROLOGY .....	5T01 NS05051-22	119,682
LOWRY, OLIVER H .....	BIOCHEMICAL PHARMACOLOGY .....	5T01 GM00096-17	53,600
LOWRY, OLIVER H .....	NEUROPHARMACOLOGY .....	5T01 NS05221-18	76,828
MAJERUS, PHILIP W .....	HEMATOLOGY .....	1T32 HL07088-01	61,841
MEDOFF, GERALD .....	INFECTIOUS DISEASES .....	5T01 AI00459-02	31,654
OGURA, JOSEPH H .....	OTOLARYNGOLOGY .....	5T01 NS05190-17	283,429
PARKER, CHARLES W .....	ALLERGY AND IMMUNOLOGY .....	1T32 AI00112-01	59,400
PFEIFFER, RUSSELL R .....	ELECTRICAL ENGINEERING .....	5T01 GM01827-07	49,337
POWERS, WILLIAM E .....	RADIATION THERAPY, PHYSICS AND BIOLOGY .....	5T01 CA05139-13	84,252
PRENSKY, ARTHUR L .....	DEVELOPMENTAL NEUROLOGY .....	1T32 NS07027-01	17,496
RASKAS, HESCHEL J. ....	MOLECULAR VIROLOGY .....	1T32 CA09129-01	103,561
SANDEL, THOMAS T .....	BEHAVIORAL PHYSIOLOGY AND PSYCHOPHYSICS .....	5T01 GM01900-07	94,920
SHANK, ROBERT E .....	NUTRITION .....	5T01 AM05341-14	61,761
SHERMAN, LAURENCE A .....	BLOOD BANKING .....	1T32 HL07038-01	40,833
SLY, WILLIAM S .....	MEDICAL GENETICS .....	5T01 GM01511-09	72,186
SOBEL, BURTON E .....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES .....	1T32 HL07081-01	122,499
VAGELOS, P ROY .....	MEDICAL SCIENTIST .....	5T05 GM02016-07	460,324
WIEST, WALTER G .....	REPRODUCTIVE BIOLOGY .....	5T01 HD00379-02	81,912
ORGANIZATION TOTAL	44	3,869,471	
STATE TOTAL	54	4,659,353	

## NEBRASKA

### OMAHA

UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER		ZIP CODE 68105	
ELLINGSON, ROBERT J .....	MENTAL RETARDATION .....	5T01 HD00122-10	29,947
LEMON, HENRY M .....	CLINICAL CANCER—MULTIDISCIPLINARY .....	5T12 CA08021-10	92,016
ORGANIZATION TOTAL	2	121,963	
STATE TOTAL	2	121,963	

## NEW HAMPSHIRE

### HANOVER

DARTMOUTH COLLEGE		ZIP CODE 03755	
TENNEY, STEPHEN M .....	CARDIORESPIRATORY PHYSIOLOGY .....	5T01 HL05322-15	96,398
VALTIN, HEINZ .....	RENAL FUNCTION AND DISEASE .....	5T01 AM05692-04	44,644
ORGANIZATION TOTAL	2	141,042	
STATE TOTAL	2	141,042	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training		Grant number	Dollars
NEW JERSEY				
NEWARK				
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY			ZIP CODE 07103	
KOVEN, BERNARD J.....	CLINICAL CANCER.....		5T12 CA08135-10	46,234
REGAN, TIMOTHY J.....	MEDICAL CARDIOLOGY.....		5T01 HL05510-13	76,142
ORGANIZATION TOTAL	2	122,376		
RUTGERS UNIVERSITY			ZIP CODE 07102	
ROSENBLATT, JAY S.....	PSYCHOBIOLOGY AND COGNITIVE PSYCHOLOGY.....		5T01 GM01135-12	19,223
ORGANIZATION TOTAL	1	19,223		
NEW BRUNSWICK				
RUTGERS UNIVERSITY			ZIP CODE 08903	
BRYSON, VERNON.....	MICROBIOLOGY.....		5T01 GM00507-16	23,533
CHAMPE, SEWELL P.....	GENETICS.....		1T32 GM07129-01	55,589
ORGANIZATION TOTAL	2	79,122		
PISCATAWAY				
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY—RUTGERS MEDICAL SCHOOL			ZIP CODE 08854	
SCHLESINGER, R WALTER.....	VIRAL AND CELLULAR GENOME FUNCTIONS IN CANCER.....		1T32 CA09069-01	167,126
ORGANIZATION TOTAL	1	167,126		
PRINCETON				
PRINCETON UNIVERSITY			ZIP CODE 08540	
BONNER, JOHN T.....	PHYSIOLOGY.....		5T01 GM00457-15	54,304
BONNER, JOHN T.....	CELLULAR AND MOLECULAR BIOLOGY.....		1T32 GM07312-01	95,724
BONNER, JOHN T.....	REPRODUCTION AND POPULATION.....		5T01 HD00348-04	100,420
COALE, ANSLEY J.....	DEMOGRAPHY.....		5T01 HD00110-08	51,702
FRESCO, JACQUES R.....	BIOCHEMISTRY.....		5T01 GM00962-14	78,692
LEVINE, ARNOLD J.....	CANCER.....		1T32 CA09167-01	327,382
WEVER, ERNEST G.....	SENSORY PSYCHOLOGY.....		5T01 NS05308-16	18,859
ORGANIZATION TOTAL	7	727,083		
STATE TOTAL	13	1,114,930		
NEW MEXICO				
ALBUQUERQUE				
UNIVERSITY OF NEW MEXICO			ZIP CODE 87131	
BICKNELL, JOSEPH M.....	NEUROLOGY.....		5T01 NS05612-08	14,774
WILLIAMS, RALPH C, JR.....	CELLULAR AND HUMORAL IMMUNOBIOLOGY.....		5T01 AI00393-05	75,341
ORGANIZATION TOTAL	2	90,115		
STATE TOTAL	2	90,115		



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK</b>			
<b>ALBANY</b>			
<b>UNION COLLEGE AND UNIVERSITY SYSTEM—ALBANY MEDICAL COLLEGE      ZIP CODE 12208</b>			
BARRON, KEVIN D.....	NEUROLOGY.....	5T01 NS05038-20	78,446
GOLBERG, LEON.....	COMPARATIVE ENVIRONMENTAL TOXICOLOGY.....	5T01 ES00103-09	99,852
GOODMAN, A DAVID.....	ENDOCRINOLOGY AND METABOLISM.....	5T01 AM05652-05	51,127
REINECKE, ROBERT D.....	OPHTHALMOLOGY.....	5T01 EY00044-10	47,148
SABA, THOMAS M.....	TRAUMATOLOGY.....	1T32 GM07033-01	58,586
THOMAS, WILBUR A.....	EXPERIMENTAL PATHOLOGY.....	5T01 GM00477-15	46,320
ORGANIZATION TOTAL      6	381,479		
<b>BUFFALO</b>			
<b>NEW YORK STATE DEPARTMENT OF HEALTH—ROSSELL PARK MEMORIAL INSTITUTE      ZIP CODE 14263</b>			
GRAHAM, SAXON.....	MEDICAL SOCIOLOGY, EPIDEMIOLOGY AND CANCER CONTROL.....	1T32 CA09051-01	64,988
HOLYOKE, EDWARD D.....	SURGICAL ONCOLOGY.....	5T01 CA05270-02	43,308
MIHICH, ENRICO.....	DRUG DEVELOPMENT AND CANCER THERAPEUTICS.....	1T32 CA09072-01	60,855
MIRAND, EDWIN A.....	CANCER.....	5T01 CA05016-19	143,090
PAIGEN, KENNETH.....	MAMMALIAN BIOCHEMICAL GENETICS.....	1T32 GM07093-01	34,766
WALLACE, H JAMES, JR.....	CANCER CHEMOTHERAPY.....	1T32 CA09108-01	103,265
ORGANIZATION TOTAL      6	450,272		
<b>STATE UNIVERSITY OF NEW YORK AT BUFFALO      ZIP CODE 14214</b>			
CHAUDHRY, ANAND P.....	EXPERIMENTAL PATHOLOGY.....	5T22 DE00141-02	30,780
CHAUDHRY, ANAND P.....	EXPERIMENTAL PATHOLOGY.....	5T01 DE00223-07	73,280
GENCO, ROBERT J.....	ORAL BIOLOGY.....	5T01 DE00167-11	95,290
GENCO, ROBERT J.....	IMMUNOLOGY AND PERIODONTOLOGY.....	5T22 DE00173-02	108,154
GENCO, ROBERT J.....	PERIODONTAL DISEASES.....	1T32 DE07034-01	145,835
GREENE, GEORGE W, JR.....	CLINICAL CANCER—DENTAL.....	5T12 CA08089-10	44,152
MC ISAAC, ROBERT J.....	PHARMACOLOGY.....	5T01 GM00107-17	18,323
MILGROM, FELIX.....	IMMUNOLOGY.....	5T01 AI00442-04	84,838
NOELL, WERNER K.....	EYE PHYSIOLOGY AND BIOCHEMISTRY.....	1T32 EY07019-01	57,163
RENNIE, DONALD W.....	PHYSIOLOGY.....	5T01 GM00341-16	22,556
SCHWARTZ, MICHAEL A.....	PHARMACEUTICAL SCIENCES.....	5T01 GM00555-13	31,320
SCHWARTZ, MICHAEL A.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07145-01	54,073
SOLO, ALAN J.....	DEVELOPMENT OF ANTICANCER DRUGS.....	1T32 CA09166-01	65,073
ZELIN, MARVIN.....	CANCER—BIOMETRY.....	5T01 CA05227-06	10,520
ZOBEL, RICHARD C.....	BIOPHYSICS.....	5T01 GM00718-16	41,422
ORGANIZATION TOTAL      15	882,779		
<b>ITHACA</b>			
<b>CORNELL UNIVERSITY      ZIP CODE 14850</b>			
FEDERER, WALTER T.....	BIOMETRY, STATISTICS & PROBABILITY.....	5T01 GM00392-16	23,104
GAYLOR, JAMES L.....	BIOCHEMISTRY.....	5T01 GM00824-14	103,324
GAYLOR, JAMES L.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07273-01	69,108
GIBSON, ELEANOR J.....	COGNITIVE DEVELOPMENT IN EARLY CHILDHOOD.....	5T01 HD00381-05	82,140
HAMMES, GORDON G.....	MOLECULAR BIOPHYSICS.....	5T01 GM00834-14	190,214
MELTZER, LEO.....	SOCIAL PSYCHOLOGY AND PERSONALITY.....	5T01 GM01941-07	94,800
POND, WILSON G.....	NUTRITION.....	5T01 GM01221-12	133,296
SMITH, ROBERT J.....	ANTHROPOLOGY.....	5T01 GM01256-12	40,673
STEVENS, CHARLES E.....	COMPARATIVE GASTROENTEROLOGY.....	5T01 AM05684-05	68,515
STYCOS, J MAYONE.....	POPULATION.....	5T01 HD00191-09	94,140
WALLACE, BRUCE.....	GENETICS.....	5T01 GM01035-13	106,651
WASSERMAN, R H.....	PHYSICAL PRINCIPLES IN BIOLOGICAL RESEARCH.....	5T01 DE00090-14	30,357
WILKINSON, CHRISTOPHER F.....	ENVIRONMENTAL TOXICOLOGY.....	5T01 ES00098-09	156,595
ORGANIZATION TOTAL      13	1,192,917		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>			
<b>NEW YORK</b>			
<b>CITY UNIVERSITY OF NEW YORK—GRADUATE SCHOOL AND UNIVERSITY CENTER      ZIP CODE 10036</b>			
GLICK, JOSEPH A.....	HUMAN DEVELOPMENT.....	5T01 HD00231-07	72,104
ORGANIZATION TOTAL      1	72,104		
<b>CITY UNIVERSITY OF NEW YORK—MOUNT SINAI SCHOOL OF MEDICINE      ZIP CODE 10029</b>			
BEATTIE, DIANA S.....	PATHOBIOLOGY OF MEMBRANES AND THEIR FUNCTIONS.....	1T32 GM07036-01	50,597
BILLER, HUGH F.....	OTOLARYNGOLOGY.....	5T01 NS05203-15	31,725
FERRY, ANDREW P.....	MULTIDISCIPLINARY EYE DISEASES.....	1T32 EY07014-01	39,057
HIRSCHHORN, KURT.....	MEDICAL GENETICS.....	5T22 GM00020-02	38,582
HIRSCHHORN, KURT.....	HUMAN GENETICS.....	5T01 HD00210-09	93,988
HODES, HORACE L.....	INFECTIOUS DISEASES/HOST IMMUNE DEFENSES.....	5T01 AI00445-04	41,028
HOLLAND, JAMES F.....	CHEMOTHERAPY AND CHEMOIMMUNOTHERAPY.....	1T32 CA09102-01	58,587
KILBOURNE, EDWIN D.....	MEDICAL MICROBIOLOGY AND IMMUNOLOGY.....	5T01 AI00439-02	38,534
LEVITT, MARVIN F.....	RENAL PHYSIOLOGY.....	5T01 HL05505-14	69,053
MITTAG, THOMAS W.....	BIOMEDICAL SCIENCES—PHARMACOLOGY.....	1T32 GM07163-01	29,951
ROSENFELD, RICHARD E.....	HEMATOLOGY.....	5T01 HL05488-13	60,720
RUBIN, EMANUEL.....	EXPERIMENTAL PATHOLOGY.....	5T01 GM00115-17	32,940
STEIGMAN, ALEX J.....	PEDIATRICS.....	5T01 HD00243-06	31,742
YAHN, MELVIN D.....	NEUROLOGY.....	5T01 NS05072-21	71,514
ORGANIZATION TOTAL      14	688,018		
<b>COLUMBIA UNIVERSITY      ZIP CODE 10027</b>			
BALAZS, ENDRE.....	OPHTHALMOLOGY.....	1T32 EY07002-01	92,465
BEHRMAN, RICHARD E.....	PERINATAL MEDICINE AND RESEARCH.....	1T32 HD07017-01	114,953
BEYCHOK, SHERMAN.....	CELLULAR AND DEVELOPMENTAL BIOLOGY.....	5T01 GM02087-05	52,560
BEYCHOK, SHERMAN.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07216-01	69,300
BIGGER, JOHN T, JR.....	CARDIOVASCULAR.....	5T01 HL05864-07	118,570
BRASEL, JO ANNE.....	GROWTH AND DEVELOPMENT.....	1T32 HD07000-01	55,679
BUTLER, VINCENT P, JR.....	CLINICAL IMMUNOLOGY.....	5T01 AI00440-04	41,850
CARPENTER, MALCOLM B.....	NEUROANATOMY.....	5T01 NS05242-17	35,899
CARTER, SIDNEY.....	CHILD NEUROLOGY.....	5T01 NS05155-19	18,439
CHANG, CHU H.....	CANCER RADIATION THERAPY.....	5T01 CA05181-10	53,036
CHIEN, SHU.....	RHEOLOGY IN CARDIOVASCULAR DISEASES.....	1T32 HL07114-01	61,753
DUFFY, PHILIP E.....	NEUROPATHOLOGY.....	5T01 NS05062-21	54,605
FRANTZ, ANDREW G.....	ENDOCRINOLOGY AND METABOLIC DISEASES.....	5T01 AM05397-13	79,765
GERSONY, WELTON M.....	PEDIATRIC CARDIOLOGY.....	5T01 HL05389-15	47,574
GREENBAUM, LOWELL M.....	PHARMACOLOGY.....	5T01 GM00438-16	41,176
GREENBAUM, LOWELL M.....	MEDICAL SCIENTIST.....	5T05 GM02042-07	279,284
GREENBAUM, LOWELL M.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07182-01	55,241
HILAL, SADEK.....	NEURORADIOLOGY.....	5T01 NS05298-16	89,517
HUI, ROBERT M.....	OTOLARYNGOLOGY.....	5T01 NS05234-17	35,328
KING, DONALD W.....	PATHOLOGY AND PATHOBIOLOGY.....	5T01 GM02050-07	107,526
KING, DONALD W.....	PATHOLOGY.....	5T01 GM02084-05	33,838
KING, DONALD W.....	PATHOBIOLOGY.....	1T32 GM07161-01	77,523
KINNEY, JOHN M.....	SURGERY.....	5T01 GM01720-10	149,170
KROOTH, ROBERT S.....	MEDICAL GENETICS.....	5T22 GM00142-02	74,880
KROOTH, ROBERT S.....	GENETICS, DEVELOPMENT AND NUTRITION.....	1T32 GM07088-01	80,810
LEVINthal, CYRUS.....	BIOPHYSICS.....	5T01 GM02012-07	47,788
LIEBERMAN, SEYMOUR.....	ENDOCRINOLOGY OF REPRODUCTION.....	5T01 HD00013-15	59,323
MARKS, PAUL A.....	HEMATOLOGY.....	5T01 AM05231-16	42,847
MELLINS, ROBERT B.....	PEDIATRIC PULMONARY DISEASE.....	5T01 HL06012-02	105,408
NGAI, SHIH-HSUN.....	ANESTHESIOLOGY.....	5T01 GM00056-18	100,935
NOBACK, CHARLES R.....	ANATOMICAL SCIENCES.....	5T01 GM00256-14	59,043
RIFKIND, RICHARD A.....	HEMATOLOGY.....	1T32 HL07148-01	111,995
ROCHESTER, DUDLEY F.....	MECHANISMS OF LUNG INJURY AND RESPIRATORY FAILURE.....	1T32 HL07018-01	58,586
ROSSI, HARALD H.....	RADIATION BIOPHYSICS.....	1T32 CA09053-01	36,987

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>			
ROWLAND, LEWIS P.....	NEUROLOGY.....	5T01 NS05009-21	86,169
SHACHTER, DAVID.....	PHYSIOLOGY.....	5T01 GM00257-17	51,357
SPIEGELMAN, SOL.....	LABORATORY AND CLINICAL CANCER.....	5T01 CA05011-19	107,850
SRINIVASAN, P R.....	BIOCHEMISTRY.....	5T01 GM00255-17	55,094
WANG, SHIH C.....	NEUROPHARMACOLOGY.....	5T01 NS05173-16	57,174
WINICK, MYRON.....	NUTRITION.....	5T01 AM05168-18	88,277
WINTERS, ROBERT W.....	PEDIATRIC NEPHROLOGY, ALLIED FIELDS & RENAL IMMUNOLOGY.....	5T01 HD00440-02	105,691
ZEGARELLI, EDWARD V.....	CLINICAL CANCER-DENTAL.....	5T12 CA08015-08	35,774
ORGANIZATION TOTAL	42 3,131,039		
<b>COMMUNITY BLOOD COUNCIL OF GREATER NEW YORK ZIP CODE 10021</b>			
KUHNS, WILLIAM J.....	HEMATOLOGY.....	5T01 HL06000-02	103,140
ORGANIZATION TOTAL	1 103,140		
<b>CORNELL UNIVERSITY MEDICAL CENTER ZIP CODE 10021</b>			
BALTAXE, HAROLD A.....	CARDIOVASCULAR RADIOLOGY.....	5T01 HL05966-03	29,441
BEARN, ALEXANDER G.....	BIOMEDICAL SCIENCES.....	1T05 GM02243-01	30,936
BENNETT, DOROTHEA.....	GENETICS.....	5T01 GM01918-07	60,720
BRISCOE, WILLIAM A.....	PULMONARY DISEASES.....	5T01 HL05944-04	86,227
ELLIS, JOHN T.....	PATHOLOGY.....	5T01 GM00078-17	68,040
GERSHON, MICHAEL D.....	ANATOMICAL SCIENCES.....	5T01 GM00895-16	30,216
GREIF, ROGER L.....	PHYSIOLOGY.....	5T01 GM01737-07	34,356
JAVITT, NORMAN B.....	GASTROENTEROLOGY.....	1T32 AM07142-01	39,057
LEWY, JOHN E.....	DEVELOPMENTAL NEPHROLOGY.....	5T01 HD00383-02	51,296
MEISTER, ALTON.....	BIOCHEMISTRY.....	5T01 GM01803-07	32,944
NACHMAN, RALPH L.....	HEMATOLOGY.....	5T01 AM05615-08	73,889
NACHMAN, RALPH L.....	HEMATOLOGY.....	1T32 HL07029-01	39,058
PATTERSON, RUSSEL H, JR.....	NEUROSURGERY.....	5T01 NS05735-04	20,603
PLUM, FRED.....	NEUROLOGY.....	3T01 NS05064-19S1	2,743
PLUM, FRED.....	NEUROLOGY.....	5T01 NS05064-20	59,310
RIKER, WALTER F, JR.....	PHARMACOLOGY.....	5T01 GM00099-18	11,880
ROBERTS, RICHARD B.....	INFECTIOUS DISEASES.....	5T01 AI00465-02	47,984
ROBERTS, RICHARD B.....	VENEREAL DISEASES.....	1T32 AI07003-01	35,692
WINDHAGER, ERICH E.....	RENAL PHYSIOLOGY.....	5T01 HL05264-17	75,416
ORGANIZATION TOTAL	19 829,808		
<b>HOSPITAL FOR JOINT DISEASES AND MEDICAL CENTER ZIP CODE 10035</b>			
HOLLANDER, VINCENT P.....	TUMOR AND SKELETOMUSCULAR ENDOCRINOLOGY.....	5T01 CA05215-07	57,111
ORGANIZATION TOTAL	1 57,111		
<b>HOSPITAL FOR SPECIAL SURGERY ZIP CODE 10021</b>			
CHRISTIAN, CHARLES L.....	RHEUMATIC DISEASE.....	5T01 AM05683-05	67,168
POSNER, AARON S.....	ORTHOPEDICS.....	5T01 AM05414-13	47,382
ORGANIZATION TOTAL	2 114,550		
<b>MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES ZIP CODE 10021</b>			
BEATTIE, EDWARD J, JR.....	CLINICAL CANCER-MEDICAL.....	5T12 CA08131-09	225,962
LEPLEY, JAMES B.....	CLINICAL CANCER-DENTAL.....	5T12 CA08155-04	24,413
SCHWARTZ, MORTON K.....	CANCER.....	5T01 CA05110-14	173,785
ORGANIZATION TOTAL	3 424,160		
<b>MONTEFIORE HOSPITAL AND MEDICAL CENTER ZIP CODE 10467</b>			
BANK, NORMAN.....	NEPHROLOGY.....	5T01 AM05712-03	50,919
OPPENHEIMER, JACK H.....	INVESTIGATIVE ENDOCRINOLOGY.....	1T32 AM07004-01	19,529
SIPAET, THEODORE H.....	HEMATOLOGY.....	1T32 HL07080-01	60,361
ORGANIZATION TOTAL	3 130,809		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>			
<b>NEW YORK UNIVERSITY      ZIP CODE 10003</b>			
BAER, RUDOLF L.....	DERMATOLOGY.....	5T01 AM05326-14	60,714
BREININ, GOODWIN M.....	OPHTHALMOLOGY.....	3T01 EY00014-20S1	2,581
BREININ, GOODWIN M.....	OPHTHALMOLOGY.....	5T01 EY00014-21	70,200
CHAMBERS, ROBERT W.....	BIOCHEMISTRY.....	5T01 GM01234-12	20,148
COX, RODY P.....	GENETICS.....	5T22 GM00047-02	56,159
COX, RODY P.....	BASIC MEDICAL SCIENCES.....	5T05 GM01668-12	537,958
COX, RODY P.....	MEDICAL SCIENTIST.....	1T32 GM07308-01	91,178
DEFENDI, VITTORIO.....	CANCER.....	1T32 CA09161-01	233,505
DEFENDI, VITTORIO.....	PATHOLOGY.....	5T01 GM00127-19	109,019
FRANKLIN, EDWARD C.....	ARTHRITIS.....	5T01 AM05064-20	120,927
KAUFMAN, LLOYD.....	VISION RESEARCH.....	1T32 EY07003-01	55,479
LAWRENCE, H SHERWOOD.....	CELLULAR IMMUNOLOGY.....	5T01 AI00005-16	82,580
MC FALL, ELIZABETH.....	MICROBIOLOGY.....	5T01 GM01290-12	57,028
NELSON, NORTON.....	ENVIRONMENTAL HEALTH.....	5T01 ES00012-15	132,539
RANSOHOFF, JOSEPH.....	NEUROSURGERY.....	5T01 NS05480-11	64,248
SABATINI, DAVID D.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07238-01	56,986
SILBER, ROBERT.....	HEMATOLOGY.....	1T32 HL07151-01	124,273
VANDERBERG, JEROME P.....	PARASITOLOGY.....	5T01 AI00361-06	44,938
ZADUNAISKY, JOSE A.....	PHYSIOLOGY AND BIOCHEMISTRY OF THE EYE.....	1T32 EY07009-01	73,972
ORGANIZATION TOTAL	19	1,994,432	
<b>ROCKEFELLER UNIVERSITY      ZIP CODE 10021</b>			
MC CARTY, MACLYN.....	BASIC PATHOBIOLOGY.....	1T32 GM07245-01	84,329
PPFAFFMANN, CARL.....	PSYCHOBIOLOGY OF BEHAVIOR.....	5T01 GM01789-09	237,600
TRAGER, WILLIAM.....	PARASITOLOGY AND MEDICAL ENTOMOLOGY.....	5T01 AI00192-15	61,034
ORGANIZATION TOTAL	3	382,963	
<b>ROOSEVELT HOSPITAL      ZIP CODE 10019</b>			
CHRISTY, NICHOLAS P.....	ENDOCRINOLOGY AND METABOLISM.....	5T01 AM05531-10	65,237
ORGANIZATION TOTAL	1	65,237	
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH      ZIP CODE 10021</b>			
HUTCHISON, DORRIS J.....	CANCER.....	1T32 CA09055-01	117,172
ORGANIZATION TOTAL	1	117,172	
<b>ST. LUKE'S HOSPITAL CENTER      ZIP CODE 10025</b>			
HOLT, PETER R.....	GASTROENTEROLOGY.....	5T01 AM05499-08	107,064
ORGANIZATION TOTAL	1	107,064	
<b>STATE UNIVERSITY OF NEW YORK—DOWNSTATE MEDICAL CENTER      ZIP CODE 11203</b>			
AMASSIAN, VAHE E.....	NEUROPHYSIOLOGY.....	5T01 NS05773-02	70,418
FURCHGOTT, ROBERT F.....	PHARMACOLOGY.....	5T01 GM00163-18	74,440
HAMILTON, JAMES B.....	ANATOMICAL SCIENCES.....	5T01 GM00379-15	22,847
KRASNOW, NORMAN.....	MEDICAL CARDIOLOGY.....	3T01 HL05726-08S2	13,176
KRASNOW, NORMAN.....	MEDICAL CARDIOLOGY.....	5T01 HL05726-09	76,627
LEVERE, RICHARD D.....	HEMATOLOGY.....	5T01 AM05651-05	55,742
ORGANIZATION TOTAL	6	313,250	
<b>YESHIVA UNIVERSITY      ZIP CODE 10033</b>			
ARIAS, IRWIN M.....	GASTROENTEROLOGY.....	5T01 AM05384-13	104,299
AUGUST, J THOMAS.....	VIRAL ONCOLOGY & TUMOR BIOLOGY.....	1T32 CA09060-01	115,857
BARNETT, HENRY L.....	HUMAN DEVELOPMENTAL BIOLOGY.....	1T32 HD07053-01	139,266
BAUM, STEPHEN G.....	MEDICAL SCIENTIST.....	5T05 GM01674-12	553,846
BAUM, STEPHEN G.....	MEDICAL SCIENTIST.....	1T32 GM07288-01	99,395
BRICKER, NEAL S.....	MULTIDISCIPLINARY NEPHROLOGY.....	1T32 AM07089-01	39,057
EDER, HOWARD A.....	LIPID METABOLISM.....	5T01 HL05273-17	63,091
ELKIN, MILTON.....	DIAGNOSTIC RADIOLOGY.....	5T01 GM01582-10	84,899



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>			
GLUECKSOHN-WAELSCH, SALOME .....	GENETICS .....	5T01 GM00110-13	60,017
GOLDFISCHER, SIDNEY L .....	PATHOBIOLOGY OF CONNECTIVE TISSUE .....	1T32 GM07168-01	36,986
HAMERMAN, DAVID J .....	RHEUMATIC DISEASES .....	5T01 AM05082-20	76,740
HORWITZ, SUSAN B .....	PHARMACOLOGICAL SCIENCES .....	1T32 GM07260-01	49,987
HURWITZ, JERARD .....	CELL AND MOLECULAR BIOLOGY .....	5T01 GM02209-04	138,795
JAFFE, ERNST R .....	HEMATOLOGY .....	5T01 AM05435-12	65,430
KATZMAN, ROBERT .....	NEUROLOGY .....	5T01 NS05114-19	72,724
KLINGER, HAROLD P .....	MEDICAL GENETICS .....	1T32 GM07001-01	39,057
LEVENSON, STANLEY M .....	TRAUMA AND BURNS .....	1T32 GM07038-01	20,416
LILLY, FRANK .....	IMMUNOLOGY AND IMMUNOONCOLOGY .....	1T32 CA09173-01	157,110
MARMUR, JULIUS .....	GENETICS AND BIOCHEMISTRY OF CELLULAR REGULATION .....	1T32 GM07128-01	69,156
RAPIN, ISABELLE .....	PEDIATRIC NEUROLOGY .....	5T01 NS05325-16	94,121
ROMNEY, SEYMOUR L .....	CANCER—GYNECOLOGY .....	5T01 CA05120-14	68,170
SCARPELLI, EMILE M .....	MULTIDISCIPLINARY RESPIRATORY DISEASES .....	1T32 HL07060-01	58,587
SCHECHESTER, MANNIE M .....	NEURORADIOLOGY .....	5T01 NS05290-16	99,125
SCHEUER, JAMES .....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES .....	1T32 HL07071-01	122,795
SHULMAN, KENNETH .....	ACADEMIC NEUROLOGICAL SURGERY .....	5T01 NS05511-10	38,948
STEIGBIGEL, NEAL H .....	MICROBIOLOGY AND IMMUNOLOGY .....	5T01 AI00405-05	88,252
TERRY, ROBERT D .....	SENILE DEMENTIA—BIOLOGICAL AND BEHAVIORAL .....	1T32 AG00004-01	44,500
TERRY, ROBERT D .....	NEUROPATHOLOGY .....	5T01 NS05275-16	75,655
ORGANIZATION TOTAL	28 2,676,281		
<b>ROCHESTER</b>			
<b>EASTMAN DENTAL CENTER ZIP CODE 14605</b>			
ZANDER, HELMUT A .....	PERIODONTOLOGY .....	5T22 DE00019-02	63,585
ORGANIZATION TOTAL	1 63,585		
<b>UNIVERSITY OF ROCHESTER ZIP CODE 14627</b>			
ABOOD, LEO G .....	NEUROCHEMISTRY .....	5T01 NS05750-02	37,701
BROWN, JOHN L .....	VISUAL SCIENCES .....	5T01 EY00086-02	63,264
CLARKSON, THOMAS W .....	TOXICOLOGY .....	5T01 GM01781-09	96,632
DI STEFANO, VICTOR .....	PHARMACOLOGY .....	5T01 GM00032-16	27,753
DI STEFANO, VICTOR .....	PHARMACOLOGICAL SCIENCES .....	1T32 GM07141-01	117,077
ELKIND, DAVID .....	DEVELOPMENTAL PSYCHOLOGY .....	5T01 HD00259-08	65,114
GROSS, PAUL R .....	CELLULAR AND MOLECULAR BIOLOGY .....	1T32 GM07230-01	93,424
HOROWICZ, PAUL .....	PHYSIOLOGY .....	5T01 GM00394-16	21,780
HOROWICZ, PAUL .....	SYSTEMS & INTEGRATIVE BIOLOGY .....	1T32 GM07136-01	22,255
HYDE, RICHARD W .....	PULMONARY DISEASES AND PHYSIOLOGY .....	5T01 HL05958-03	67,509
JOHANSEN, ERLING .....	BASIC DENTAL SCIENCES .....	5T01 DE00003-19	197,947
JOYNT, ROBERT J .....	NEUROLOGY .....	5T01 NS05084-15	45,929
KNIGGE, KARL M .....	ANATOMICAL SCIENCES .....	5T01 GM01782-07	54,524
LEDDEY, JOHN P .....	ALLERGY, IMMUNOLOGY AND INFECTIOUS DISEASES .....	5T01 AI00028-17	100,756
NEUMAN, WILLIAM F .....	BIOPHYSICS AND CRYSTALLOGRAPHY .....	5T01 DE00175-11	81,607
PECK, WILLIAM A .....	INVESTIGATIVE ENDOCRINOLOGY AND METABOLISM .....	1T32 AM07092-01	19,529
RICHTER, GOETZ W .....	PATHOLOGY .....	5T01 GM00133-19	40,163
RUBIN, PHILIP .....	RADIATION THERAPY, PHYSICS AND BIOLOGY .....	5T01 CA05102-14	133,151
SELANDER, ROBERT K .....	GENETICS .....	5T01 GM00658-15	95,900
SPAR, IRVING L .....	BIOPHYSICS .....	5T01 GM01088-13	28,940
THIED, HENRY A .....	REPRODUCTIVE BIOLOGY AND MATERNAL-FETAL RELATIONSHIPS .....	5T01 HD00015-14	40,042
WEED, ROBERT I .....	CLINICAL INVESTIGATION .....	5T07 AM01004-11	56,389
WEED, ROBERT I .....	HEMATOLOGY .....	5T01 AM05113-19	140,535
WEED, ROBERT I .....	HEMATOLOGY .....	1T32 HL07152-01	21,008
YOUNG, FRANK E .....	VENEREAL DISEASE .....	1T32 AI00137-01	33,840
YOUNG, FRANK E .....	BASIC AND CLINICAL MICROBIOLOGY .....	3T01 AI00427-04S1	1,031
YOUNG, FRANK E .....	MICROBIOLOGY .....	5T01 GM00592-15	80,451
YOUNG, FRANK E .....	MEDICAL SCIENTIST .....	5T05 GM02263-03	192,438
YOUNG, FRANK E .....	GENETICS AND REGULATION .....	1T32 GM07102-01	47,600

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>			
YU, PAUL N.....	MEDICAL CARDIOLOGY.....	5T01 HL05500-13	140,603
ORGANIZATION TOTAL	30 2,164,892		
<b>STONY BROOK</b>			
<b>STATE UNIVERSITY OF NEW YORK AT STONY BROOK ZIP CODE 11794</b>			
KATES, JOSEPH R.....	VIRAL ONCOLOGY.....	1T32 CA09176-01	98,468
MOOS, CARL.....	MOLECULAR BIOLOGY.....	1T32 GM07212-01	81,329
ORGANIZATION TOTAL	2 179,797		
<b>SYRACUSE</b>			
<b>STATE UNIVERSITY OF NEW YORK-UPSTATE MEDICAL CENTER ZIP CODE 13210</b>			
GILBERT, ROBERT.....	PULMONARY DISEASES.....	5T01 HL05954-02	59,420
GOODMAN, DONALD C.....	ANATOMICAL SCIENCES.....	5T01 GM00326-16	47,649
KING, ROBERT B.....	NEUROSURGERY.....	5T01 NS05605-08	58,705
MC AFEE, JOHN G.....	NUCLEAR MEDICINE.....	5T01 GM01583-10	54,673
PRESTON, JAMES B.....	PHYSIOLOGY.....	5T01 GM01006-14	14,048
REED, GEORGE F.....	OTOLARYNGOLOGY.....	5T01 NS05276-14	91,184
ROGERS, LLOYD S.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08116-08	71,672
STREETEN, DAVID H.....	ENDOCRINOLOGY.....	1T32 AM07146-01	17,888
WEINER, IRWIN M.....	PHARMACOLOGY.....	5T01 GM00293-16	14,256
WEINER, IRWIN M.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07066-01	24,406
ORGANIZATION TOTAL	10 453,901		
<b>SYRACUSE UNIVERSITY ZIP CODE 13210</b>			
MEYER, WILLIAM J.....	DEVELOPMENTAL PSYCHOLOGY: DEVELOPMENT AND AGING.....	5T01 HD00144-09	79,063
ORGANIZATION TOTAL	1 79,063		
<b>TROY</b>			
<b>RENSSELAER POLYTECHNIC INSTITUTE ZIP CODE 12181</b>			
KATZ, J LAWRENCE.....	BIOPHYSICS AND CRYSTALLOGRAPHY.....	5T01 DE00117-12	98,505
ORGANIZATION TOTAL	1 98,505		
<b>UPTON</b>			
<b>ASSOCIATED UNIVERSITIES—BROOKHAVEN NATIONAL LABORATORY ZIP CODE 11973</b>			
SETLOW, RICHARD B.....	ENVIRONMENTAL AND GENETIC FACTORS IN NEOPLASIA.....	1T32 CA09121-01	132,138
ORGANIZATION TOTAL	1 132,138		
STATE TOTAL	231 17,286,466		
<b>NORTH CAROLINA</b>			
<b>CHAPEL HILL</b>			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL ZIP CODE 27514</b>			
BRINKHOUTS, KENNETH M.....	PATHOLOGY.....	5T01 GM00092-17	51,773
BROMBERG, PHILIP A.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	1T32 HL07106-01	39,649
CRAIGE, ERNEST.....	MEDICAL CARDIOLOGY.....	5T01 HL05727-09	91,079
FARMER, THOMAS W.....	NEUROLOGY.....	5T01 NS05031-21	72,494
FISCHER, NEWTON D.....	OTOLARYNGOLOGY.....	5T01 NS05287-16	66,530
GOTTSCALK, CARL W.....	RENAL AND ELECTROLYTE PHYSIOLOGY AND DISEASE.....	5T01 AM05054-20	131,252
GOTTSCALK, CARL W.....	KIDNEY AND MEMBRANE PHYSIOLOGY AND DISEASE.....	1T32 AM07047-01	19,529
GRAHAM, JOHN B.....	MEDICAL GENETICS.....	5T22 GM00006-02	34,414

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>NORTH CAROLINA—Con.</b>			
GRAHAM, JOHN B.	GENETICS	5T01 GM00685-15	89,669
GRAHAM, JOHN B.	GENETICS	1T32 GM07092-01	43,101
GRAHAM, JOHN B.	GENETICS	1T32 GM07121-01	33,750
GRISHAM, JOE W.	ENVIRONMENTAL PATHOLOGY	1T32 ES07017-01	36,450
GRIZZLE, JAMES E.	BIOSTATISTICS	5T01 GM00038-22	91,690
GRIZZLE, JAMES E.	STATISTICS AND EPIDEMIOLOGY IN CARDIOVASCULAR DISEASE	1T32 HL07005-01	39,058
HALL, THOMAS L.	POPULATION	5T01 HD00193-07	219,551
KUPPER, LAWRENCE L.	ENVIRONMENTAL HEALTH—BIOSTATISTICS	5T01 ES00133-05	57,031
MANIRE, G. PHILIP	TUMOR BIOLOGY	1T32 CA09057-01	54,488
MANIRE, G. PHILIP	MICROBIOLOGY	5T01 GM01138-13	64,045
PAGANO, JOSEPH S.	BASIC MECHANISMS OF VIRAL AND CHEMICAL CARCINOGENESIS	1T32 CA09156-01	125,500
PIANTADOSI, CLAUDE	MEDICINAL CHEMISTRY	5T01 GM01770-07	14,933
ROBERTS, HAROLD R.	HEMATOLOGY	5T01 AM05345-12	49,627
ROBERTS, HAROLD R.	HEMATOLOGY	1T32 HL07149-01	39,057
SILVERMAN, MYRON S.	BASIC SCIENCES	5T01 DE00288-04	72,535
SPARLING, PHILIP F.	VENEREAL DISEASES	1T32 AI07001-01	36,000
STEDMAN, DONALD J.	MENTAL RETARDATION	5T01 HD00424-02	86,706
STOVER, BETSY J.	PHARMACOLOGICAL SCIENCES	1T32 GM07040-01	42,939
TYROLER, HERMAN A.	ENVIRONMENTAL EPIDEMIOLOGY RESEARCH	5T01 ES00134-05	127,281
TYROLER, HERMAN A.	CARDIOVASCULAR EPIDEMIOLOGY AND STATISTICS	1T32 HL07055-01	93,978
VAN WYK, JUDSON J.	ENDOCRINOLOGY AND METABOLISM	5T01 AM05330-14	87,645
VAN WYK, JUDSON J.	ENDOCRINOLOGY AND METABOLISM	1T32 AM07129-01	19,529
WELLS, H. BRADLEY	POPULATION STATISTICS	5T01 HD00371-04	91,950
ORGANIZATION TOTAL	31	2,123,233	
<b>DURHAM</b>			
DUKE UNIVERSITY	ZIP CODE 27706		
AMOS, DENNIS B.	TUMOR IMMUNOLOGY AND IMMUNOGENETICS	1T32 CA09058-01	88,235
AMOS, DENNIS B.	MEDICAL GENETICS	1T32 GM07003-01	76,275
APPEL, STANLEY H.	BIOLOGICAL APPROACHES TO DEMENTIA	1T32 AG00007-01	50,500
APPEL, STANLEY H.	BEHAVIORAL SCIENCES	5T01 GM01238-12	53,462
APPEL, STANLEY H.	NEUROLOGY	5T01 NS05417-13	57,287
BUCKLEY, REBECCA H.	STUDIES OF MECHANISMS LEADING TO THE ATOPIC RESPONSE	5T22 AI00135-02	73,152
GOLDSMITH, LOWELL A.	DERMATOLOGY	1T32 AM07093-01	19,529
GROSS, SAMSON R.	GENETICS	5T01 GM02007-07	88,847
HARRIS, JEROME S.	PEDIATRICS	5T01 HD00132-10	133,822
HILL, ROBERT L.	BIOCHEMISTRY	5T01 GM00233-16	88,265
HILL, ROBERT L.	ORGANIZATION AND FUNCTIONS OF CELLULAR STRUCTURES	1T32 GM07184-01	149,856
HUDSON, WILLIAM R.	OTOLARYNGOLOGY	5T01 NS05358-15	15,058
JOKLIK, WOLFGANG K.	VIRAL ONCOLOGY	1T32 CA09111-01	134,047
JOKLIK, WOLFGANG K.	MICROBIOLOGY	5T01 GM01019-13	55,818
KINNEY, THOMAS D.	EXPERIMENTAL PATHOLOGY	5T01 GM00726-15	97,640
LEBOVITZ, HAROLD E.	ENDOCRINOLOGY AND DIABETES	5T01 AM05074-20	67,976
LEBOVITZ, HAROLD E.	ENDOCRINOLOGY AND DIABETES	1T32 AM07012-01	19,529
LYNN, WILLIAM S.	ENVIRONMENTAL FACTORS IN PULMONARY DISEASE	5T01 ES00124-08	118,227
MADDOX, GEORGE L.	BEHAVIOR AND PHYSIOLOGY IN AGING AND HUMAN DEVELOPMENT	5T01 HD00164-10	154,514
MENZEL, DANIEL B.	TRANSFORMATION AND BIOLOGICAL EFFECTS OF TOXICANTS	1T32 ES07002-01	134,779
MOORE, JOHN W.	BIOLOGICAL SYSTEMS	1T32 GM07046-01	39,325
MYERS, GEORGE C.	DEMOGRAPHY AND ECOLOGY	5T01 GM01291-12	132,305
NARAHASHI, TOSHIO	PHARMACOLOGICAL SCIENCES	1T32 GM07105-01	78,251
ODOM, GUY L.	NEUROSURGERY	5T01 NS05528-10	83,604
PILKINGTON, THEO C.	CARDIOVASCULAR BIOMEDICAL ENGINEERING	5T01 HL05716-09	77,519
PILKINGTON, THEO C.	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES	1T32 HL07063-01	113,907
ROBERTSON, J. DAVID	BIOLOGY—MEMBRANES	5T22 GM00100-02	142,416
ROBINSON, ROSCOE R.	NEPHROLOGY	5T01 HL05848-07	132,127
ROSATI, ROBERT A.	BIOMEDICAL COMMUNICATIONS	1T15 LM07003-01	129,052
ROSSE, WENDELL F.	BLOOD BANKING SCIENCES AND RELATED PROGRAMS	1T32 HL07057-01	76,044

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>NORTH CAROLINA—Con.</b>			
RUNDLES, RALPH WAYNE.....	CANCER CHEMOTHERAPY AND HEMATOLOGY.....	5T01 CA05042-17	69,029
SABISTON, DAVID C, JR.....	SURGERY.....	5T01 GM01709-10	154,361
SIDBURY, JAMES B, JR.....	MENTAL RETARDATION.....	5T01 HD00205-08	83,690
TOSTESON, DANIEL C.....	PHYSIOLOGY AND PHARMACOLOGY.....	5T01 GM00929-14	129,704
TOSTESON, DANIEL C.....	MULTIDISCIPLINARY BASIC MEDICAL SCIENCES.....	5T05 GM01678-10	465,745
TOSTESON, DANIEL C.....	MEDICAL SCIENTIST.....	1T32 GM07171-01	95,179
TYOR, MALCOLM P.....	GASTROENTEROLOGY.....	5T01 AM05093-19	96,935
VOGEL, F STEPHEN.....	NEUROPATHOLOGY.....	5T01 NS05212-17	27,527
WALLACE, ANDREW G.....	MEDICAL CARDIOLOGY.....	5T01 HL05736-09	265,835
WALLACE, ANDREW G.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	1T32 HL07101-01	124,273
WOLBARSHT, MYRON L.....	BIOMEDICAL ENGINEERING.....	5T01 GM02286-02	32,572
WYNGAARDEN, JAMES B.....	METABOLIC AND RHEUMATIC DISEASES.....	1T32 AM07015-01	58,586
ORGANIZATION TOTAL	42	4,284,804	

## **RALEIGH**

<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—NORTH CAROLINA STATE UNIVERSITY AT RALEIGH</b>			
		<b>ZIP CODE 27607</b>	
GUTHRIE, FRANK E.....	MOLECULAR AND ENVIRONMENTAL TOXICOLOGY.....	5T01 ES00083-09	87,368
LUCAS, HENRY L, JR.....	BIOMATHEMATICS.....	5T01 GM00678-15	141,932
MANN, THURSTON J.....	GENETICS.....	5T01 GM00296-15	35,178
TOVE, SAMUEL B.....	EXPERIMENTAL NUTRITIONAL SCIENCES.....	5T01 GM00482-15	46,712
ORGANIZATION TOTAL	4	311,190	

## **WINSTON-SALEM**

<b>WAKE FOREST UNIVERSITY</b>			
		<b>ZIP CODE 27109</b>	
CLARKSON, THOMAS B.....	LABORATORY ANIMAL MEDICINE.....	5T01 RR05000-16	102,420
HARRILL, JAMES A.....	OTOLARYNGOLOGY.....	5T01 NS05199-18	63,367
MYRVIK, QUENTIN N.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	1T32 HL07117-01	35,550
RAPELA, CARLOS E.....	CARDIOVASCULAR PHYSIOLOGY.....	5T01 HL05392-16	130,024
SPURR, CHARLES L.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08037-10	158,328
ST CLAIR, RICHARD W.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	1T32 HL07115-01	106,652
ORGANIZATION TOTAL	6	596,341	
STATE TOTAL	83	7,315,568	

## **NORTH DAKOTA**

### **GRAND FORKS**

<b>UNIVERSITY OF NORTH DAKOTA</b>			
		<b>ZIP CODE 58201</b>	
BRUMLEVE, STANLEY.....	MAMMALIAN RESPIRATORY NORMAL, AND PATHOLOGIC PHYSIOLOGY.....	5T01 HL05939-02	57,683
FISCHER, ROBERT G.....	MICROBIOLOGY.....	5T01 GM01097-12	29,988
ORGANIZATION TOTAL	2	87,671	
STATE TOTAL	2	87,671	

## **OHIO**

### **CINCINNATI**

<b>CHILDREN'S HOSPITAL MEDICAL CENTER</b>			
		<b>ZIP CODE 45229</b>	
KAPLAN, SAMUEL.....	PEDIATRIC CARDIOLOGY.....	5T01 HL05728-09	58,482
LAMPKIN, BEATRICE C.....	PEDIATRIC HEMATOLOGY.....	5T01 CA05196-09	31,146



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training		Grant number	Dollars
OHIO—Con.				
ORGANIZATION TOTAL	2	89,628		
UNIVERSITY OF CINCINNATI ZIP CODE 45221				
ARON, BERNARD S.....	CLINICAL CANCER.....	5T12 CA08115-10	82,921	
HAMMOND, PAUL B.....	TOXICOLOGY.....	5T01 ES00127-08	156,880	
LICHSTEIN, HERMAN C.....	MICROBIOLOGY.....	5T01 GM01255-12	12,268	
ORGANIZATION TOTAL	3	252,069		
CLEVELAND				
CASE WESTERN RESERVE UNIVERSITY ZIP CODE 44106				
BAUM, GERALD L.....	RESPIRATORY MEDICINE.....	3T01 HL05987-01S2	14,418	
BAUM, GERALD L.....	RESPIRATORY MEDICINE.....	5T01 HL05987-02	94,390	
CARTER, JOHN R.....	PATHOBIOLOGY.....	5T01 GM01784-09	128,417	
COOPER, CECIL.....	MEDICAL SCIENTIST.....	1T32 GM07250-01	81,173	
FOLEY, JOSEPH M.....	CLINICAL NEUROLOGY.....	5T01 NS05087-19	122,936	
HOLDEN, WILLIAM D.....	GENERAL SURGERY.....	5T01 GM01588-09	82,953	
KEAN, EDWARD L.....	VISUAL SCIENCES—MULTIDISCIPLINARY.....	1T32 EY07006-01	16,273	
KENNEDY, W ROBERT.....	HEALTH SCIENCES.....	5T01 LM00156-03	63,730	
KOHN, ROBERT R.....	AGING OF MAMMALIAN TISSUES.....	5T01 HD00304-05	47,394	
KRAMPTITZ, L O.....	MICROBIOLOGY.....	5T01 GM00171-17	146,256	
KRAMPTITZ, L O.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07225-01	50,753	
LAKE, ROBIN B.....	COMPUTER TECHNOLOGY IN HEALTH SCIENCES.....	1T15 LM07001-01	89,034	
LANDAU, BERNARD R.....	ENDOCRINOLOGY.....	5T01 AM05682-05	44,472	
LIEBMAN, JEROME.....	PEDIATRIC CARDIOLOGY—CLINICAL.....	5T01 HL05803-07	62,484	
MAC INTYRE, M NEIL.....	ANATOMICAL SCIENCES.....	5T01 GM00820-14	106,518	
MATTHEWS, LEROY W.....	PEDIATRIC PULMONARY DISEASES.....	5T01 HL06009-02	80,460	
PLONSEY, ROBERT.....	BIOMEDICAL ENGINEERING.....	5T01 GM01090-13	150,560	
POMERANZ, JEROME R.....	DERMATOLOGY.....	5T01 AM05608-08	42,564	
RALL, THEODORE W.....	PHARMACOLOGY.....	5T01 GM00661-14	44,441	
RATNOFF, OSCAR D.....	HEMATOLOGY.....	1T32 HL07147-01	58,587	
ROSENBERG, GEORGE S.....	SOCIAL GERONTOLOGY.....	5T01 HD00119-09	58,563	
ROTHCHILD, IRVING.....	BIOLOGY OF HUMAN REPRODUCTION.....	5T01 HD00024-12	68,791	
SCOTT, DAVID B.....	PHYSICAL ORAL BIOLOGY.....	5T01 DE00180-09	45,523	
SINGER, MARCUS.....	DEVELOPMENTAL BIOLOGY.....	5T01 HD00020-14	141,957	
STEINBERG, ARTHUR G.....	MEDICAL GENETICS.....	1T32 GM07004-01	36,986	
THOMPSON, WILMER L.....	CLINICAL PHARMACOLOGY.....	1T32 GM07022-01	33,750	
UTTER, MERTON F.....	BIOCHEMISTRY.....	5T01 GM00035-18	162,648	
VICTOR, MAURICE.....	NEUROLOGY.....	5T01 NS05416-13	58,944	
ORGANIZATION TOTAL	28	2,134,975		
CLEVELAND CLINIC HOSPITAL ZIP CODE 44106				
DUSTAN, HARRIET P.....	RENAL PHYSIOLOGY.....	5T01 HL05897-05	31,945	
KHAIALLAH, PHILIP A.....	BIOCHEMISTRY.....	5T01 HL05126-18	61,830	
ORGANIZATION TOTAL	2	93,775		
COLUMBUS				
OHIO STATE UNIVERSITY ZIP CODE 43210				
ALLISON, MORGAN L.....	DENTAL ANESTHESIOLOGY.....	5T01 DE00291-04	115,100	
BALCERZAK, STANLEY P.....	ONCOLOGY.....	1T32 CA09155-01	58,587	
BALCERZAK, STANLEY P.....	HEMATOLOGY.....	1T32 HL07141-01	39,057	
BYERS, THOMAS J.....	DEVELOPMENTAL BIOLOGY—INTERDISCIPLINARY.....	5T01 HD00431-02	55,173	
COLE, CLARENCE R.....	COMPARATIVE PATHOLOGY.....	5T01 GM01052-13	125,126	
FERRIS, THOMAS F.....	RENAL DISEASES.....	3T01 HL05975-02S2	8,856	
FERRIS, THOMAS F.....	RENAL DISEASES.....	5T01 HL05975-03	83,701	
GRUEMER, HANNS-DIETER F.....	CLINICAL CHEMISTRY.....	5T01 GM01805-08	36,938	
HUNT, WILLIAM E.....	NEUROLOGICAL SURGERY.....	5T01 NS05529-10	56,817	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>OHIO—Con.</b>			
MAZZAFERRI, ERNEST L.....	ENDOCRINOLOGY AND METABOLISM.....	5T01 AM05118-19	57,710
SAUNDERS, WILLIAM H.....	OTOLARYNGOLOGY AND AUDIOLOGY.....	5T01 NS05397-13	83,392
WARREN, JAMES V.....	CARDIOVASOLOGY.....	5T01 HL05968-03	157,011
WHARTON, GEORGE W.....	PARASITOLOGY AND MEDICAL ENTOMOLOGY.....	5T01 AI00216-15	85,992
WITIAK, DONALD.....	MEDICINAL CHEMISTRY.....	5T01 GM01949-07	58,716
ORGANIZATION TOTAL	14	1,022,176	
STATE TOTAL	49	3,592,623	
<b>OKLAHOMA</b>			
<b>NORMAN</b>			
<b>UNIVERSITY OF OKLAHOMA      ZIP CODE 73069</b>			
LARSH, HOWARD W.....	INFECTIOUS DISEASES—MEDICAL MYCOLOGY.....	5T01 AI00123-15	51,290
ORGANIZATION TOTAL	1	51,290	
<b>OKLAHOMA CITY</b>			
<b>OKLAHOMA MEDICAL RESEARCH FOUNDATION      ZIP CODE 73104</b>			
BRADFORD, REAGAN H.....	MEDICAL CARDIOLOGY.....	3T01 HL05403-14S2	4,596
BRADFORD, REAGAN H.....	MEDICAL CARDIOLOGY.....	5T01 HL05403-15	63,682
ORGANIZATION TOTAL	2	68,278	
<b>UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER      ZIP CODE 73190</b>			
ANDERSON, PAUL S. JR.....	CANCER EPIDEMIOLOGY.....	5T01 CA05248-04	24,504
BASTA, LOTFY L.....	CARDIOVASOLOGY.....	5T01 HL05406-16	82,598
BOTTOMLEY, RICHARD H.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08149-06	714
COUNIHAN, DONALD.....	OROFACIAL CLEFTS.....	5T01 DE00263-04	23,473
HAMPTON, JAMES W.....	HEMATOLOGY.....	5T01 AM05107-17	25,458
LINDEMAN, ROBERT D.....	NEPHROLOGY AND UROLOGY.....	5T01 AM05167-17	77,193
MORAN, WILLARD B. JR.....	OTOLARYNGOLOGY.....	5T01 NS05418-12	23,099
ROGERS, ROBERT M.....	PULMONARY DISEASES.....	1T17 HL07155-01	54,000
ORGANIZATION TOTAL	8	311,039	
STATE TOTAL	11	430,607	
<b>OREGON</b>			
<b>CORVALLIS</b>			
<b>OREGON STATE HIGHER EDUCATION SYSTEM—OREGON STATE UNIVERSITY      ZIP CODE 97331</b>			
CALVIN, LYLE D.....	BIOMETRY.....	5T01 GM01736-09	78,031
ELLIKER, PAUL R.....	MICROBIOLOGY.....	5T01 GM00704-13	26,240
WARREN, CHARLES E.....	PHYSIOLOGICAL AND BEHAVIORAL TOXICOLOGY.....	5T01 GM01192-12	14,880
WEBER, LAVERN J.....	COMPARATIVE PHARMACOLOGY AND TOXICOLOGY.....	1T32 GM07148-01	7,709
ORGANIZATION TOTAL	4	126,860	
<b>EUGENE</b>			
<b>OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON      ZIP CODE 97403</b>			
HOYLE, GRAHAM.....	PHYSIOLOGY.....	5T01 GM00336-15	60,483
VON HIPPEL, PETER H.....	MOLECULAR BIOLOGY.....	5T01 GM00715-17	126,033
WICKELGREN, WAYNE A.....	HUMAN EXPERIMENTAL PSYCHOLOGY.....	5T01 GM02165-02	70,586

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>OREGON—Con.</b>			
WITANEN, WAYNE A.....	SYSTEMS AND INTEGRATIVE BIOLOGY.....	1T32 GM07257-01	31,057
WOLFE, RAYMOND G.....	BIOCHEMISTRY.....	5T01 GM00444-16	15,444
ORGANIZATION TOTAL	5 303,603		
<b>PORTLAND</b>			
<b>MEDICAL RESEARCH FOUNDATION OF OREGON ZIP CODE 97207</b>			
MONTAGNA, WILLIAM.....	DERMATOLOGY.....	5T01 AM05512-10	45,925
ORGANIZATION TOTAL	1 45,925		
<b>OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON HEALTH SCIENCES CENTER ZIP CODE 97201</b>			
BROOKHART, JOHN M.....	PHYSIOLOGY.....	5T01 GM00538-15	62,756
DOTTER, CHARLES T.....	ANGIOGRAPHY AND CARDIOVASCULAR RADIOGRAPHY.....	5T01 HL05828-07	51,800
GREER, MONTE A.....	ENDOCRINOLOGY.....	5T01 AM05065-20	59,184
JONES, RICHARD T.....	BIOCHEMISTRY.....	5T01 GM01200-12	24,563
KLOSTER, FRANK E.....	MEDICAL CARDIOLOGY.....	5T01 HL05791-08	150,661
KOLER, ROBERT D.....	HUMAN GENETICS.....	5T01 HD00165-10	57,260
MATARAZZO, JOSEPH D.....	BIOPSYCHOLOGY.....	5T01 GM01495-09	7,034
PORTER, DONALD R.....	PEDODONTICS.....	5T01 DE00279-05	59,220
SWAN, KENNETH C.....	OPHTHALMOLOGY.....	5T01 EY00006-21	58,545
ORGANIZATION TOTAL	9 531,023		
STATE TOTAL	19 1,007,411		
<b>PENNSYLVANIA</b>			
<b>PHILADELPHIA</b>			
<b>CHILDREN'S HOSPITAL OF PHILADELPHIA ZIP CODE 19104</b>			
BERMAN, PETER H.....	CHILD NEUROLOGY.....	5T01 NS05260-17	52,800
DONALDSON, MILTON H.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08147-06	97,082
SCHWARTZ, ELIAS.....	HEMATOLOGY.....	1T32 HL07150-01	39,945
SEGAL, STANTON.....	MEMBRANE RESEARCH.....	1T32 GM07025-01	52,272
SEGAL, STANTON.....	PEDIATRICS.....	5T01 HD00215-09	91,880
ORGANIZATION TOTAL	5 333,979		
<b>DREXEL UNIVERSITY ZIP CODE 19104</b>			
BEARD, RICHARD B.....	BIOMEDICAL ENGINEERING.....	5T01 DE00199-09	90,599
BEARD, RICHARD B.....	BIOMEDICAL ENGINEERING.....	5T01 HL05417-15	127,433
ORGANIZATION TOTAL	2 218,032		
<b>HAHNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA ZIP CODE 19102</b>			
DEVLIN, THOMAS M.....	CLINICAL BIOCHEMISTRY.....	5T01 GM02198-02	69,240
SATINSKY, VICTOR P.....	CARDIOLOGY.....	5T01 HL05692-09	82,061
ORGANIZATION TOTAL	2 151,301		
<b>INSTITUTE FOR CANCER RESEARCH ZIP CODE 19111</b>			
ENGSTROM, PAUL F.....	CLINICAL CANCER.....	5T12 CA08168-02	45,900
TALBOT, TIMOTHY R, JR.....	CANCER RESEARCH.....	1T32 CA09035-01	231,390
ORGANIZATION TOTAL	2 277,290		
<b>MEDICAL COLLEGE OF PENNSYLVANIA ZIP CODE 19129</b>			
GOLDMAN, DAVID E.....	PHYSIOLOGY.....	5T01 GM02008-07	30,879
ORGANIZATION TOTAL	1 30,879		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>PENNSYLVANIA—Con.</b>			
<b>ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN      ZIP CODE 19133</b>			
GROVER, WARREN D.....	NEUROLOGY.....	5T01 NS10072-02	41,359
ORGANIZATION TOTAL      1	41,359		
<b>TEMPLE UNIVERSITY      ZIP CODE 19122</b>			
FARBER, EMMANUEL.....	EXPERIMENTAL AND HUMAN CANCER RESEARCH.....	5T01 CA05280-04	256,565
KUNDEL, HAROLD L.....	DIAGNOSTIC RADIOLOGY.....	5T01 GM01702-10	92,840
MILLER, ARTHUR S.....	CLINICAL CANCER—DENTAL.....	5T12 CA08144-08	26,147
SHERRY, SOL.....	THROMBOSIS, COAGULATION AND FIBRINOLYSIS.....	3T01 HL05976-02S2	20,619
SHERRY, SOL.....	THROMBOSIS, COAGULATION AND FIBRINOLYSIS.....	5T01 HL05976-03	69,131
SHOCKMAN, GERALD D.....	MICROBIOLOGY.....	5T01 GM00983-13	50,295
SPANN, JAMES F, JR.....	CARDIOVASCULAR PHYSIOLOGY AND PHARMACOLOGY.....	5T01 HL05712-09	93,386
VAN ROSSUM, GEORGE D.....	PHARMACOLOGY.....	3T01 HL05362-15S2	1,944
ORGANIZATION TOTAL      8	610,927		
<b>THOMAS JEFFERSON UNIVERSITY      ZIP CODE 19107</b>			
BRENT, ROBERT L.....	BIOLOGY.....	5T01 HD00370-05	92,029
CHAMBERS, RICHARD A.....	NEUROLOGY.....	5T01 NS05135-19	24,540
ERSLEV, ALLAN J.....	HEMATOLOGY.....	1T32 AM07084-01	19,529
KRAMER, SIMON.....	RADIATION THERAPY.....	1T32 CA09137-01	75,409
ORGANIZATION TOTAL      4	211,507		
<b>UNIVERSITY OF PENNSYLVANIA      ZIP CODE 19174</b>			
ASBURY, ARTHUR K.....	NEUROLOGY.....	5T01 NS05423-13	118,479
BRIGHTON, CARL T.....	OSTEOCHONDROLOGY.....	5T01 AM05698-04	80,313
BRINSTER, RALPH L.....	VETERINARY MEDICINE.....	5T01 GM02051-07	178,163
BRINSTER, RALPH L.....	REPRODUCTIVE PHYSIOLOGY.....	5T01 HD00239-07	73,906
BROBECK, JOHN R.....	PHYSIOLOGY.....	5T01 GM00205-17	63,848
COHEN, SIDNEY.....	GASTROENTEROLOGY.....	1T32 AM07066-01	39,057
COOPER, RICHARD A.....	HEMATOLOGY.....	3T01 HL06019-12S1	5,076
COOPER, RICHARD A.....	HEMATOLOGY.....	5T01 HL06019-13	99,545
DURAND, JOHN D.....	DEMOGRAPHY.....	5T01 HD00192-09	55,715
FERGUSON, JAMES J, JR.....	BIOCHEMISTRY.....	5T01 AM05150-18	42,552
FERGUSON, JAMES J, JR.....	BIOCHEMISTRY.....	5T01 GM00374-16	28,463
FERGUSON, JAMES J, JR.....	MEDICAL SCIENTIST.....	5T05 GM02046-07	538,580
FERGUSON, JAMES J, JR.....	MEDICAL SCIENTIST.....	1T32 GM07170-01	92,275
FISHMAN, ALFRED P.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	1T32 HL07000-01	42,016
FITTS, WILLIAM T, JR.....	SURGERY.....	5T01 GM01540-10	108,039
FORSTER, ROBERT E.....	PULMONARY PHYSIOLOGY.....	1T32 HL07027-01	39,057
GOLDBERG, MARTIN.....	RENAL PATHOPHYSIOLOGY IN CARDIAC AND RENAL DISEASE.....	1T32 AM07006-01	40,833
GOTS, JOSEPH S.....	INFECTIOUS DISEASES.....	5T01 AI00203-15	180,544
HAMMOND, BENJAMIN.....	BASIC SCIENCES.....	5T01 DE00001-19	114,215
HOLTZER, HOWARD.....	CELL AND MOLECULAR BIOLOGY.....	1T32 GM07229-01	208,899
HOLTZER, HOWARD.....	CELL DIFFERENTIATION.....	5T01 HD00030-13	101,450
KALLENBACH, NEVILLE R.....	GENETICS.....	1T32 GM07071-01	55,719
KARUSH, FRED.....	ALLERGY AND IMMUNOLOGY.....	5T01 AI00204-14	30,991
KLINMAN, NORMAN R.....	THE IMMUNOBIOLOGY OF NORMAL AND NEOPLASTIC LYMPHOCYTES.....	1T32 CA09140-01	356,603
KOELLE, GEORGE B.....	PHARMACOLOGY.....	5T01 GM00474-15	109,856
KOELLE, GEORGE B.....	PHARMACOLOGICAL SCIENCES.....	1T32 GM07302-01	37,135
KOROSTOFF, EDWARD.....	DENTISTRY—MATERIALS.....	5T01 DE00104-13	127,570
KRITCHEVSKY, DAVID.....	MOLECULAR BIOLOGY.....	5T01 GM00694-15	66,524
KUHL, DAVID E.....	NUCLEAR MEDICINE.....	5T01 GM01762-08	56,960
MARSHAK, ROBERT R.....	CANCER—MULTIDISCIPLINARY.....	5T01 CA05097-14	78,110
MELLMAN, WILLIAM J.....	MEDICAL GENETICS.....	5T22 GM00053-02	66,420
NOWELL, PETER C.....	CANCER—EXPERIMENTAL PATHOLOGY.....	5T01 CA05022-19	12,216
PEACHEY, LEE D.....	DEVELOPMENTAL BIOLOGY.....	5T01 GM00849-14	48,160
ROSNER, BURTON S.....	PHYSIOLOGICAL PSYCHOLOGY.....	5T01 GM01036-14	73,542
SCHIE, HAROLD G.....	OPHTHALMOLOGY.....	5T01 EY00049-09	74,787



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>PENNSYLVANIA—Con.</b>			
SCHWAN, HERMAN P.....	BIOMEDICAL ENGINEERING.....	5T01 GM00606-15	69,897
SHIP, IRWIN I.....	SOFT TISSUE DISEASES.....	1T32 DE07036-01	73,953
SNOW, JAMES B, JR.....	OTOLARYNGOLOGY.....	5T01 NS05769-02	112,457
SOMLYO, ANDREW P.....	PATHOLOGY OF MEMBRANES & ORGANELLES.....	1T32 GM00092-01A1	142,047
SPRAGUE, JAMES M.....	ANATOMICAL SCIENCES.....	5T01 GM00281-17	116,498
STELLAR, ELIOT.....	BEHAVIORAL & NEUROLOGICAL SCIENCES.....	5T01 GM01994-07	120,180
WINEGRAD, ALBERT I.....	DIABETES.....	5T01 AM05556-09	49,429
WOLLMAN, HARRY.....	ANESTHESIOLOGY.....	5T01 GM00215-18	203,768
YANOFF, MYRON.....	OPHTHALMIC PATHOLOGY.....	5T01 EY00079-04	49,182
ZWEIMAN, BURTON.....	ALLERGY AND IMMUNOLOGY.....	5T01 AI00319-10	91,788
ORGANIZATION TOTAL	45 4,474,817		
<b>WILLS EYE HOSPITAL ZIP CODE 19130</b>			
SERY, THEODORE W.....	INFECTIONS AND IMMUNOLOGICAL RESPONSE IN OCULAR DISEASE.....	5T01 EY00084-04	64,195
ORGANIZATION TOTAL	1 64,195		
<b>PITTSBURGH</b>			
<b>ALLEGHENY GENERAL HOSPITAL ZIP CODE 15212</b>			
LESHER, SAMUEL W.....	RADIATION BIOLOGY AND CANCER.....	5T01 CA05224-07	69,458
ORGANIZATION TOTAL	1 69,458		
<b>CARNEGIE-MELLON UNIVERSITY ZIP CODE 15213</b>			
REICHERT, THOMAS A.....	BIOMEDICAL ENGINEERING.....	5T01 GM01455-10	78,604
ORGANIZATION TOTAL	1 78,604		
<b>MAGEE-WOMEN'S HOSPITAL ZIP CODE 15213</b>			
HAYASHI, T TERRY.....	REPRODUCTION AND NEONATOLOGY.....	5T01 HD00227-07	42,250
ORGANIZATION TOTAL	1 42,250		
<b>UNIVERSITY OF PITTSBURGH ZIP CODE 15260</b>			
DIXIT, BALWANT N.....	PHARMACOLOGY.....	5T01 GM01217-11	9,622
FERGUSON, ALBERT B, JR.....	ORTHOPEDIC SURGERY.....	5T01 AM05405-09	33,019
FIELD, JAMES B.....	ENDOCRINOLOGY AND METABOLISM.....	5T01 AM05047-20	39,549
FIELD, JAMES B.....	DIABETES AND ENDOCRINOLOGY.....	1T32 AM07052-01	19,529
GILL, THOMAS J, III.....	PATHOLOGY.....	5T01 GM00135-19	66,167
HEATH, EDWARD C.....	BIOCHEMISTRY.....	5T01 GM00149-17	54,760
KULLER, LEWIS H.....	CARDIOVASCULAR EPIDEMIOLOGY.....	1T32 HL07011-01	36,987
LESTER, ROGER.....	LIVER METABOLISM AND INTESTINAL TRANSPORT.....	1T32 AM07138-01	18,360
MURDAUGH, HERSCHEL V, JR.....	KIDNEY IN HEALTH AND DISEASE.....	5T01 HL05905-05	75,600
OLIVER, THOMAS K, JR.....	ACADEMIC PEDIATRICS.....	5T01 HD00062-14	84,993
PLATT, DAVID.....	MICROBIOLOGY & EXPERIMENTAL PATHOLOGY.....	5T01 DE00108-13	61,229
SMUDSKI, JAMES.....	PHARMACOLOGY-DENTAL.....	5T01 DE00213-06	57,044
ORGANIZATION TOTAL	12 556,859		
<b>UNIVERSITY PARK</b>			
<b>PENNSYLVANIA STATE UNIVERSITY ZIP CODE 16802</b>			
BAKER, PAUL T.....	ANTHROPOLOGY-HUMAN BIOLOGICAL ADAPTABILITY.....	5T01 GM01748-07	117,233
PALERMO, DAVID S.....	VERBAL BEHAVIOR AND VERBAL LEARNING.....	5T01 HD00151-10	59,078
TAYLOR, CHARLES.....	GERONTOLOGY-INTERDISCIPLINARY.....	5T01 HD00194-09	71,290
TAYLOR, WILLIAM D.....	BIOPHYSICS.....	5T01 GM01015-14	45,874
ZIMMERMAN, LEONARD N.....	MICROBIOLOGY.....	5T01 GM00512-15	31,906
ORGANIZATION TOTAL	5 325,381		
STATE TOTAL	91 7,486,838		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director		General area of training	Grant number	Dollars
<b>RHODE ISLAND</b>				
<b>PROVIDENCE</b>				
<b>BROWN UNIVERSITY</b>	<b>ZIP CODE 02912</b>			
ELLIS, RICHARD A.....		ANATOMICAL SCIENCES.....	5T01 GM00582-15	66,778
GOLDSTEIN, SIDNEY.....		DEMOGRAPHY.....	5T01 HD00376-10	102,842
RIGGS, LORRIN A.....		VISUAL PSYCHOPHYSIOLOGY.....	5T01 EY00030-15	18,724
ROTMAN, M. BORIS.....		MICROBIOLOGY AND IMMUNOLOGY.....	5T01 AI00418-05	59,362
ORGANIZATION TOTAL	4	247,706		
STATE TOTAL	4	247,706		
<b>SOUTH CAROLINA</b>				
<b>CHARLESTON</b>				
<b>MEDICAL UNIVERSITY OF SOUTH CAROLINA</b>	<b>ZIP CODE 29401</b>			
GAFFNEY, THOMAS E.....		CLINICAL PHARMACOLOGY.....	5T22 GM00038-02	53,730
ORGANIZATION TOTAL	1	53,730		
STATE TOTAL	1	53,730		
<b>TENNESSEE</b>				
<b>KNOXVILLE</b>				
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE AT KNOXVILLE</b>	<b>ZIP CODE 37916</b>			
BILLEN, DANIEL.....		CARCINOGENESIS.....	1T32 CA09104-01	52,934
BILLEN, DANIEL.....		MULTIDISCIPLINARY BIOLOGICAL SCIENCES.....	5T01 GM01974-07	174,536
BROWN, ARTHUR.....		BASIC MICROBIOLOGY: EMPHASIS PATHOGENESIS AND IMMUNITY.....	5T01 AI00435-05	79,976
KENNEY, FRANCIS T.....		CARCINOGENESIS.....	5T01 CA05296-02	130,194
ORGANIZATION TOTAL	4	437,640		
<b>MEMPHIS</b>				
<b>ST. JUDE CHILDREN'S RESEARCH HOSPITAL</b>	<b>ZIP CODE 38101</b>			
MAUER, ALVIN.....		CANCER—MULTIDISCIPLINARY.....	5T01 CA05176-12	197,370
MAUER, ALVIN.....		CLINICAL CANCER—MEDICAL.....	5T12 CA08151-06	94,459
ORGANIZATION TOTAL	2	291,829		
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES</b>	<b>ZIP CODE 38163</b>			
GROSS, CHARLES W.....		OTOLARYNGOLOGY.....	5T01 NS05587-08	19,502
KOSSMANN, CHARLES E.....		MULTIDISCIPLINARY.....	3T01 HL05876-05S1	2,130
MASI, ALFONSE T.....		ARTHRITIS.....	5T01 AM05055-20	58,386
ROBERTSON, G. GORDON.....		ANATOMICAL SCIENCES.....	5T01 GM00202-17	81,702
STOLLERMAN, GENE H.....		BACTERIOLOGY AND MYCOLOGY.....	5T01 AI00320-10	71,767
ORGANIZATION TOTAL	5	233,487		
<b>NASHVILLE</b>				
<b>GEORGE PEABODY COLLEGE FOR TEACHERS</b>	<b>ZIP CODE 37203</b>			
ODOM-BROOKS, PENELOPE.....		MENTAL RETARDATION—BEHAVIORAL.....	1T32 HD07045-01	119,027
ORGANIZATION TOTAL	1	119,027		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>TENNESSEE—Con.</b>			
<b>MEHARRY MEDICAL COLLEGE</b>	<b>ZIP CODE 37208</b>		
WALKER, MATTHEW	CLINICAL CANCER-MEDICAL	5T12 CA08125-09	136,244
ORGANIZATION TOTAL	1 136,244		
<b>VANDERBILT UNIVERSITY</b>	<b>ZIP CODE 37240</b>		
BASS, ALLAN D	PHARMACOLOGY	5T01 GM00058-17	136,883
BRIGHT, KENNETH L	MULTIDISCIPLINARY RESPIRATORY DISEASES	1T32 HL07123-01	19,529
BROQUIST, HARRY P	NUTRITION	5T01 AM05441-12	34,934
BROQUIST, HARRY P	NUTRITION AND GASTROENTEROLOGY	1T32 AM07083-01	29,850
CROFFORD, OSCAR B	DIABETES AND ENDOCRINOLOGY	1T32 AM07061-01	7,128
KAPLAN, ALBERT S	REGULATION OF CELL AND VIRUS GROWTH	5T01 CA05295-02	76,023
LEQUIRE, VIRGIL S	PATHOLOGY	5T01 GM00290-14	13,536
NEAL, ROBERT A	ENVIRONMENTAL TOXICOLOGY	1T32 ES07028-01	57,444
OATES, JOHN A	CLINICAL PHARMACOLOGY	5T22 GM00113-02	78,912
ORTH, DAVID N	CLINICAL CANCER-MEDICAL	5T12 CA08047-09	64,001
PARK, CHARLES R	PHYSIOLOGY	5T01 GM00423-15	27,987
PUETT, J DAVID	REPRODUCTIVE BIOLOGY, BIOCHEMISTRY, AND ENDOCRINOLOGY	1T32 HD07043-01	80,861
SCOTT, H WILLIAM, JR	SURGERY	5T01 GM01742-09	123,344
TOUSTER, OSCAR	MOLECULAR BIOLOGY	5T01 GM01395-11	13,921
TOUSTER, OSCAR	CELLULAR-MOLECULAR BIOLOGY	1T32 GM07319-01	108,290
ORGANIZATION TOTAL	15 872,643		
<b>OAK RIDGE</b>			
<b>OAK RIDGE ASSOCIATED UNIVERSITIES</b>	<b>ZIP CODE 37830</b>		
ANDREWS, GOULD A	CANCER-INTERDISCIPLINARY	5T01 CA05287-02	79,020
ORGANIZATION TOTAL	1 79,020		
STATE TOTAL	29 2,169,890		
<b>TEXAS</b>			
<b>AUSTIN</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN</b>	<b>ZIP CODE 78712</b>		
GOUGH, PHILIP B	PSYCHOLINGUISTICS	5T01 HD00439-02	57,213
HARDESTY, BOYD A	MEMBRANE CHANGES IN CARCINOGENESIS	1T32 CA09182-01	159,466
JACOBSON, ANTOINE G	DEVELOPMENT AND REPRODUCTION	5T01 HD00268-05	80,529
JUDD, BURKE H	GENETICS	1T32 GM07126-01	102,633
SCHRANK, A R	PHYSIOLOGY AND BIOPHYSICS	5T01 GM00836-13	16,944
WAGNER, ROBERT P	GENETICS & CELL BIOLOGY	5T01 GM00337-16	46,052
WYSS, ORVILLE	MICROBIOLOGY	5T01 GM00600-16	15,324
ORGANIZATION TOTAL	7 478,161		
<b>COLLEGE STATION</b>			
<b>TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY</b>	<b>ZIP CODE 77843</b>		
BRIDGES, CHARLES H	VETERINARY PATHOLOGY	5T01 GM01232-12	15,072
ORGANIZATION TOTAL	1 15,072		
<b>DALLAS</b>			
<b>BAYLOR COLLEGE OF DENTISTRY</b>	<b>ZIP CODE 75226</b>		
MATTHEWS, JAMES L	ANATOMY	5T01 DE00224-08	35,395
ORGANIZATION TOTAL	1 35,395		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>TEXAS—Con.</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS      ZIP CODE 75235</b>			
COMBES, BURTON.....	GASTROENTEROLOGY AND LIVER DISEASE.....	1T32 AM07100-01	58,587
DIETSCHY, JOHN M.....	MEMBRANE TRANSPORT IN HEALTH AND IN VARIOUS DISEASES.....	5T22 GM00034-02	58,175
FOSTER, DANIEL W.....	METABOLOGY.....	5T01 CA05200-09	65,050
GAULDEN, MARY E.....	RADIATION BIOLOGY.....	5T01 CA05136-14	12,407
GOLDSTEIN, JOSEPH L.....	MEDICAL GENETICS.....	5T22 GM00021-02	34,290
GUNTER, JACK P.....	OTOLARYNGOLOGY.....	5T01 NS05600-08	22,051
JOHNSON, ROBERT L, JR.....	CARDIOPULMONARY PHYSIOLOGY AND PATHOPHYSIOLOGY.....	5T01 HL05812-07	186,834
MACDONALD, PAUL C.....	PHYSIOLOGY OF REPRODUCTION.....	5T01 HD00256-07	121,870
MILLER, WILLIAM F.....	CARDIOPULMONARY PHYSIOLOGY.....	3T01 HL05396-14S2	6,480
NELSON, JOHN D.....	PEDIATRIC INFECTIOUS DISEASE AND IMMUNOLOGY.....	5T01 AI00337-09	56,351
PIERCE, ALAN K.....	PULMONARY MEDICINE.....	1T17 HL07128-01	48,480
SELDIN, DONALD W.....	BIOCHEMICAL CARDIOVASCULOLOGY.....	5T01 HL05469-15	120,032
STREILEIN, J WAYNE.....	CANCER IMMUNOLOGY.....	1T32 CA09082-01	130,149
WEISS, GEORGE B.....	PHARMACOLOGY.....	1T32 GM07062-01	18,953
ZIFF, MORRIS.....	IMMUNOLOGY.....	5T01 AM05154-18	100,464
ZIFF, MORRIS.....	RHEUMATOLOGY.....	1T32 AM07055-01	19,529
ORGANIZATION TOTAL	16	1,059,702	
<b>GALVESTON</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON      ZIP CODE 77550</b>			
BAILEY, BYRON J.....	OTOLARYNGOLOGY.....	5T01 NS05672-05	12,667
BOWMAN, BARBARA H.....	GENETICS.....	1T32 GM07204-01	43,364
CALVERLEY, JOHN R.....	NEUROLOGY.....	5T01 NS05755-09	25,400
HILD, WALTHER J.....	ANATOMY.....	5T01 GM00459-15	64,704
LEVIN, WILLIAM C.....	HEMATOLOGY.....	5T01 AM05208-16	51,149
ORGANIZATION TOTAL	5	197,284	
<b>HOUSTON</b>			
<b>BAYLOR COLLEGE OF MEDICINE      ZIP CODE 77025</b>			
ALFORD, BOBBY R.....	OTOLARYNGOLOGY.....	5T01 NS05435-13	71,419
BUSCH, HARRIS.....	CANCER CHEMOTHERAPY.....	5T01 CA05154-13	122,306
CASKEY, CHARLES THOMAS.....	MEDICAL GENETICS.....	5T22 GM00081-02	51,840
DE BAKEY, MICHAEL E.....	ACADEMIC SURGERY.....	5T01 GM01965-07	33,748
HORNING, EVAN C.....	ANALYTICAL METHODS FOR HUMAN STUDIES.....	5T01 GM02055-07	71,280
KNOX, JOHN M.....	VENEREOLOGY.....	5T01 AI00462-02	41,454
LANE, MONTAGUE.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08017-09	208,312
MARTIN, R RUSSELL.....	INFECTIOUS DISEASES.....	5T01 AI00446-04	59,682
MC NAMARA, DAN G.....	CLINICAL CARDIOLOGY.....	5T01 HL05756-09	56,085
NICHOLS, BUFORD L.....	PEDIATRIC NUTRITION AND GASTROENTEROLOGY.....	5T01 AM05721-03	45,669
O'MALLEY, BERT W.....	REPRODUCTIVE BIOLOGY: REGULATORY MECHANISMS.....	5T01 HD00444-02	67,358
SCHWARTZ, ARNOLD.....	CARDIOVASCULAR PHYSIOLOGY.....	5T01 HL05925-05	50,112
SUKI, WADI N.....	CLINICAL NEPHROLOGY.....	5T01 HL05963-03	39,985
TRENTIN, JOHN J.....	CANCER.....	5T01 CA05021-19	80,297
VON NOORDEN, GUNTER K.....	VISUAL SCIENCES.....	1T32 EY07001-01	34,915
ORGANIZATION TOTAL	15	1,034,462	
<b>RICE UNIVERSITY      ZIP CODE 77001</b>			
STEWART, CHARLES R.....	DEVELOPMENTAL GENETICS.....	1T01 GM02221-01	30,498
ORGANIZATION TOTAL	1	30,498	
<b>UNIVERSITY OF HOUSTON      ZIP CODE 77004</b>			
EVANS, RICHARD I.....	BEHAVIORAL SCIENCE PSYCHOLOGY—DENTAL.....	5T01 DE00138-12	11,766
ORGANIZATION TOTAL	1	11,766	



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>TEXAS—Con.</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON</b>		<b>ZIP CODE 77025</b>	
HAWKINS, C. MORTON.....	CARDIOVASCULAR BIOMETRY.....	5T01 HL05988-03	47,483
LEVY, BARNET M.....	PERIODONTOLOGY.....	5T22 DE00035-02	66,285
SHAW, MARGERY W.....	MEDICAL GENETICS.....	5T22 GM00143-02	67,390
SHAW, MARGERY W.....	MEDICAL GENETICS.....	5T01 GM02237-02	50,620
SPERLING, HARRY G.....	SENSORY NEURAL SCIENCES.....	1T32 EY07024-01	49,944
ORGANIZATION TOTAL	5	281,722	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER</b>		<b>ZIP CODE 77025</b>	
BLUMENSCHN, GEORGE R.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08000-10	153,945
FLETCHER, GILBERT H.....	CANCER—RADIOLOGY.....	5T01 CA05099-14	308,263
FREIREICH, EMIL J.....	CLINICAL PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS.....	5T01 CA05230-06	15,336
HAAS, FELIX L.....	BIOLOGY OF GROWTH PROCESSES.....	5T01 CA05047-17	23,298
SHULLENBERGER, C. C.....	CANCER CHEMOTHERAPY.....	1T32 CA09163-01	108,903
VAN EYS, JAN.....	PEDIATRIC HEMATOLOGY-ONCOLOGY.....	1T32 CA09070-01	40,833
ORGANIZATION TOTAL	6	650,578	
<b>SAN ANTONIO</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO</b>		<b>ZIP CODE 78284</b>	
MC GUIRE, WILLIAM L.....	MECHANISMS OF BREAST CANCER GROWTH AND REGRESSION.....	1T32 CA09042-01	36,986
MC NAY, JOHN L, JR.....	CLINICAL PHARMACOLOGY.....	1T32 GM07014-01	38,465
STEIN, JAY H.....	ACADEMIC NEPHROLOGY.....	1T32 AM07103-01	39,057
ORGANIZATION TOTAL	3	114,508	
STATE TOTAL	61	3,909,148	
<b>UTAH</b>			
<b>LOGAN</b>			
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UTAH STATE UNIVERSITY</b>		<b>ZIP CODE 84322</b>	
GARDNER, ELDON J.....	GENETICS.....	5T01 GM01029-13	40,868
ORGANIZATION TOTAL	1	40,868	
<b>SALT LAKE CITY</b>			
<b>LATTER-DAY SAINTS HOSPITAL SYSTEM—LATTER-DAY SAINTS HOSPITAL</b>		<b>ZIP CODE 84143</b>	
WARNER, HOMER R.....	BIOMEDICAL ENGINEERING.....	5T01 HL05521-13	74,881
ORGANIZATION TOTAL	1	74,881	
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH</b>		<b>ZIP CODE 84112</b>	
BRAY, PATRICK F.....	CHILD NEUROLOGY.....	5T01 NS05503-10	42,903
BROOM, ARTHUR D.....	CANCER CHEMOTHERAPY.....	5T01 CA05209-08	29,902
CARTWRIGHT, GEORGE E.....	HEMATOLOGY.....	1T32 AM07115-01	20,416
DETHLEFSEN, LYLE A.....	RADIATION BIOLOGY AND EXPERIMENTAL ONCOLOGY.....	1T32 CA09097-01	26,507
EYZAGUIRRE, CARLOS E.....	NEUROPHYSIOLOGY.....	5T01 NS05244-16	24,439
GIBB, JAMES W.....	BIOCHEMICAL TOXICOLOGY.....	1T32 GM07265-01	34,086
JARCHO, LEONARD W.....	NEUROLOGY.....	5T01 NS05309-15	71,519
KUIDA, HIROSHI.....	CLINICAL CARDIOLOGY.....	5T01 HL05967-03	79,528
RUTTENBERG, HERBERT D.....	PEDIATRIC CARDIOLOGY.....	5T01 HL05945-04	15,546
STEVENS, WALTER.....	ANATOMY.....	5T01 GM00958-14	50,333
SWINYARD, EWART A.....	PHARMACOLOGY—DENTISTRY.....	5T01 DE00252-07	17,317
VICKERY, ROBERT K, JR.....	DEVELOPMENTAL, EVOLUTIONARY, AND MOLECULAR GENETICS.....	5T01 GM01374-10	53,255
WOODBURY, DIXON M.....	PHARMACOLOGY.....	5T01 GM00153-17	158,429
ORGANIZATION TOTAL	13	624,180	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollar:
<b>UTAH—Con.</b>			
STATE TOTAL	15	739,929	
<b>VERMONT</b>			
<b>BURLINGTON</b>			
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE		ZIP CODE 05401	
ALBERTINI, RICHARD J.	CLINICAL CANCER	5T12 CA08061-10	69,079
ALPERT, NORMAN R.	PHYSIOLOGY AND BIOPHYSICS	5T01 GM00439-15	34,753
GREEN, GARETH M.	RESPIRATORY DISEASES	5T01 HL05990-03	45,144
PARSONS, RODNEY L.	CARDIOVASOLOGY—MULTIDISCIPLINARY	1T32 HL07073-01	50,005
TABAKIN, BURTON S.	MEDICAL CARDIOLOGY—CARDIOPULMONARY PHYSIOLOGY	5T01 HL05286-16	85,498
ORGANIZATION TOTAL	5	284,479	
STATE TOTAL	5	284,479	
<b>VIRGINIA</b>			
<b>CHARLOTTESVILLE</b>			
UNIVERSITY OF VIRGINIA		ZIP CODE 22903	
ATTINGER, ERNST O.	BIOMEDICAL ENGINEERING	5T01 GM01919-07	89,850
BERNE, ROBERT M.	CARDIOVASCULAR PHYSIOLOGY	5T01 HL05815-08	140,844
BODENSTEIN, DIETRICH	GENETICS	5T01 GM01450-07	55,549
JOHNS, T R.	NEUROLOGY	5T01 NS05120-20	127,874
KADNER, ROBERT J.	GENETIC CONTROL OF BIOLOGICAL REGULATORY SYSTEMS	1T32 GM07082-01	19,405
KONIGSBERG, IRWIN R.	DEVELOPMENTAL BIOLOGY	5T01 HD00430-02	46,007
LANGMAN, JAN	CRANIOFACIAL DEVELOPMENT	1T32 DE07037-01	54,740
LARNER, JOSEPH	PHARMACOLOGY	5T01 GM02139-05	48,594
LARNER, JOSEPH	PHARMACOLOGY	1T32 GM07055-01	15,797
LAWLESS, KENNETH R.	DENTISTRY—MATERIALS	5T01 DE00115-13	32,800
MANDELL, GERALD L.	VENEREAL DISEASES	5T22 AI00069-02	36,180
MURAD, FERID	CLINICAL PHARMACOLOGY	5T22 GM00010-02	58,174
THOMPSON, THOMAS E.	BIOCHEMISTRY	5T01 GM01814-09	42,459
THOMPSON, THOMAS E.	MEMBRANE AND MACROMOLECULAR STRUCTURE	1T32 GM07294-01	55,108
WAGNER, ROBERT R.	BACTERIOLOGY, VIROLOGY AND IMMUNOLOGY	5T01 AI00102-15	113,529
ORGANIZATION TOTAL	15	936,910	
<b>RICHMOND</b>			
VIRGINIA COMMONWEALTH UNIVERSITY		ZIP CODE 23284	
BRADLEY, S GAYLEN	INFECTION AND IMMUNITY	5T01 AI00382-05	82,100
DEWEY, WILLIAM L.	PHARMACOLOGY AND RELATED DISCIPLINES	1T32 GM07111-01	44,646
ELZAY, RICHARD P.	CLINICAL CANCER—DENTAL	5T12 CA08022-10	18,758
FARRAR, JOHN T.	GASTROENTEROLOGY	5T01 AM05476-09	65,098
GOLDMAN, I DAVID	CARDIOVASOLOGY—MULTIDISCIPLINARY	1T32 HL07110-01	40,833
JOY, EDWIN D, JR.	DENTISTRY—PAIN CONTROL	5T22 DE00116-02	73,074
KENNEDY, JAMES F.	BASIC SCIENCES	5T01 DE00008-17	62,669
REGELSON, WILLIAM	CLINICAL CANCER—MULTIDISCIPLINARY	5T12 CA08123-10	127,237
ORGANIZATION TOTAL	8	514,415	
STATE TOTAL	23	1,451,325	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>WASHINGTON</b>			
<b>PULLMAN</b>			
<b>WASHINGTON STATE UNIVERSITY</b>	<b>ZIP CODE 99163</b>		
KIRSCHNER, LEONARD B.....	ZOOPHYSIOLOGY.....	5T01 GM01276-12	54,103
MC GUIRE, TRAVIS C.....	COMPARATIVE PATHOLOGY.....	5T01 GM00414-16	45,748
PADGETT, GEORGE A.....	COMPARATIVE GENETICS-MEDICAL.....	1T32 GM07125-01	53,260
PADGETT, GEORGE A.....	PATHOBIOLOGY.....	1T32 GM07160-01	73,578
ORGANIZATION TOTAL	4	226,689	
<b>SEATTLE</b>			
<b>UNIVERSITY OF WASHINGTON</b>	<b>ZIP CODE 98195</b>		
ALEXANDER, E RUSSELL.....	VIROLOGY AND RICKETTSIOLOGY.....	5T01 AI00206-14	88,273
BENDITT, EARL P.....	EXPERIMENTAL PATHOLOGY.....	5T01 GM00100-18	153,618
BIERMAN, EDWIN L.....	ENDOCRINOLOGY AND METABOLISM.....	5T01 AM05020-21	118,048
BIERMAN, EDWIN L.....	NUTRITION, LIPID METABOLISM, AND ARTERIOSCLEROSIS.....	1T32 HL07028-01	41,424
BONICA, JOHN J.....	ANESTHESIOLOGY.....	5T01 GM01160-13	122,932
BROWN, ARTHUR C.....	ORAL PHYSIOLOGY AND BIOPHYSICS.....	5T01 DE00248-07	11,126
BUTLER, JOHN.....	RESPIRATORY MEDICINE.....	3T01 HL05819-07S2	2,828
BUTLER, JOHN.....	RESPIRATORY MEDICINE.....	5T01 HL05819-08	114,280
CHAPMAN, WARREN H.....	UROLOGY.....	5T01 AM05546-09	66,692
DILLARD, DAVID H.....	CARDIAC AND PERIPHERAL VASCULAR SURGERY.....	5T01 HL05921-04	15,630
DONALDSON, JAMES A.....	OTOLARYNGOLOGY.....	5T01 NS05553-10	32,020
DOUGLAS, HOWARD C.....	MICROBIOLOGY.....	5T01 GM00511-16	37,623
EVERETT, NEWTON B.....	ANATOMY.....	5T01 GM00136-19	85,580
FEIGL, ERIC O.....	CARDIOVASOLOGY-MULTIDISCIPLINARY.....	1T32 HL07090-01	55,774
FINCH, CLEMENT A.....	HEMATOLOGY.....	5T01 AM05130-19	172,476
FINCH, CLEMENT A.....	HEMATOLOGY.....	1T32 HL07093-01	42,016
FOX, JOHN P.....	EPIDEMIOLOGY.....	5T01 GM01935-08	17,687
GALE, JAMES L.....	EPIDEMIOLOGY-EYE DISEASES.....	1T32 EY07017-01	59,922
GORDON, MILTON P.....	MOLECULAR AND CELLULAR BIOLOGY.....	1T32 GM07270-01	53,776
GUNTHEROTH, WARREN G.....	PEDIATRIC CARDIOLOGY.....	3T01 HL05924-03S2	3,506
GUNTHEROTH, WARREN G.....	PEDIATRIC CARDIOLOGY.....	5T01 HL05924-04	51,246
HERRMANN, WALTER L.....	ENDOCRINOLOGY OF REPRODUCTION.....	5T01 HD00272-10	164,313
HOLMES, KING K.....	VENEREAL DISEASE.....	5T22 AI00191-02	58,176
HORITA, A.....	PHARMACOLOGY TOXICOLOGY.....	5T01 GM00109-17	108,222
KALINA, ROBERT E.....	VISION RESEARCH-MULTIDISCIPLINARY.....	1T32 EY07013-01	44,794
KAPLAN, ALEX.....	BIOCHEMISTRY-CLINICAL CHEMISTRY.....	5T01 GM00776-12	78,468
KENNY, GEORGE E.....	IMMUNOLOGY OF VENEREAL DISEASE AGENTS.....	5T22 AI00125-02	34,992
KLEBANOFF, SEYMOUR J.....	MEDICAL SCIENTIST.....	5T05 GM02103-06	138,206
KLEBANOFF, SEYMOUR J.....	MEDICAL SCIENTIST.....	1T32 GM07266-01	42,536
LAGUNOFF, DAVID.....	BASIC PATHOBIOLOGY.....	1T32 GM07187-01	69,041
LEE, JOHN A.....	CANCER EPIDEMIOLOGY AND BIOSTATISTICS.....	1T32 CA09168-01	81,172
MANNIK, MART.....	RHEUMATOLOGY.....	5T01 AM05602-08	71,815
MANNIK, MART.....	RHEUMATOLOGY.....	1T32 AM07108-01	20,120
MOFFETT, BENJAMIN C, JR.....	INTERDISCIPLINARY CRANIOFACIAL RESEARCH.....	5T22 DE00073-02	133,069
MOTULSKY, ARNO G.....	MEDICAL GENETICS.....	5T22 GM00197-02	57,510
NEURATH, HANS.....	BIOCHEMISTRY.....	5T01 GM00052-19	165,143
ODLAND, GEORGE F.....	DERMATOLOGY.....	5T01 AM05250-15	65,000
ODLAND, GEORGE F.....	DERMATOLOGY.....	1T32 AM07019-01	19,529
PAGE, ROY C.....	PERIODONTAL DISEASES.....	5T22 DE00026-02	70,416
PARKER, ROBERT G.....	THERAPEUTIC RADIOLOGY, PHYSICS & BIOLOGY.....	5T01 CA05198-09	143,859
PATTON, HARRY D.....	PHYSIOLOGY.....	5T01 GM00260-17	141,184
PATTON, HARRY D.....	SYSTEMS AND INTEGRATIVE BIOLOGY.....	1T32 GM07108-01	33,327
PATTON, HARRY D.....	NEUROPHYSIOLOGY.....	5T01 NS05082-20	155,542
PETERSDORF, ROBERT G.....	INFECTIOUS DISEASES.....	3T01 AI00146-15S1	9,000
PORTE, DANIEL, JR.....	ENDOCRINOLOGY AND METABOLISM.....	5T01 AM05498-10	49,171
ROMAN, HERSCHEL L.....	GENETICS-GENERAL AND MEDICAL.....	5T01 GM00182-17	170,552

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>WASHINGTON—Con.</b>			
RUSHMER, ROBERT F .....	CARDIOVASCULAR PHYSIOLOGY .....	5T01 HL05147-18	129,937
SHIRES, G TOM .....	TRAUMA AND BURNS .....	1T32 GM07037-01	34,099
SMITH, MONCRIEFF H, JR .....	PHYSIOLOGY AND PSYCHOLOGY .....	5T01 GM00666-15	74,382
SREEBNY, LEO M .....	ORAL BIOLOGY-SALIVARY SECRETIONS .....	1T32 DE07023-01	34,353
SWANSON, PHILLIP D .....	NEUROLOGY .....	5T01 NS05067-19	35,975
THOMAS, E DONNALL .....	ONCOLOGY .....	5T01 CA05231-06	207,211
THOMPSON, DONOVAN J .....	BIOMETRY .....	5T01 GM01269-12	75,451
VOLWILER, WADE .....	GASTROENTEROLOGY .....	1T32 AM07113-01	18,117
WARD, ARTHUR A, JR .....	NEUROSURGERY .....	5T01 NS05211-15	53,349
WEDGWOOD, RALPH J .....	ABNORMAL BIOLOGIC DEVELOPMENT AND MENTAL RETARDATION .....	5T01 HD00404-02	111,553
WEISER, RUSSELL S .....	CANCER IMMUNOLOGY .....	5T01 CA05040-17	40,331
WHITELEY, ARTHUR H .....	DEVELOPMENTAL BIOLOGY-INTERDISCIPLINARY .....	5T01 HD00266-07	97,645
ORGANIZATION TOTAL	58 4,384,037		
STATE TOTAL	62 4,610,726		
<b>WEST VIRGINIA</b>			
<b>MORGANTOWN</b>			
WEST VIRGINIA UNIVERSITY	ZIP CODE 26506		
FLEMING, WILLIAM W .....	PHARMACOLOGY .....	5T01 GM00076-17	18,848
FLEMING, WILLIAM W .....	PHARMACOLOGICAL SCIENCES .....	1T32 GM07039-01	41,342
GERENCSE, VINCENT F .....	DENTAL MICROBIOLOGY .....	5T01 DE00249-07	13,133
GUTMANN, LUDWIG .....	NEUROLOGY .....	5T01 NS05758-11	44,643
WATNE, ALVIN L .....	CLINICAL CANCER-MEDICAL .....	5T12 CA08071-10	45,139
ORGANIZATION TOTAL	5 163,105		
STATE TOTAL	5 163,105		
<b>WISCONSIN</b>			
<b>MADISON</b>			
UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON	ZIP CODE 53706		
ALLEN, JAMES R .....	PATHOBIOLOGY .....	1T32 GM07194-01	69,830
AUERBACH, ROBERT .....	DEVELOPMENTAL BIOLOGY .....	5T01 HD00409-04	78,428
BASS, PAUL .....	PHARMACOLOGY AND TOXICOLOGY .....	1T32 GM07107-01	42,904
BEINERT, HELMUT .....	ENZYMOLGY-MAMMALIAN METABOLISM .....	1T32 AM07049-01	39,057
BURKHOLDER, PETER M .....	PATHOLOGY .....	5T01 GM00130-18	37,344
BURRIS, ROBERT H .....	BIOCHEMISTRY .....	5T01 GM00236-16	70,552
CALDWELL, WILLIAM L .....	CANCER-RADIOTHERAPY, PHYSICS, AND BIOLOGY .....	5T01 CA05104-13	165,636
COHEN, PHILIP P .....	BIOCHEMISTRY .....	5T01 GM00302-16	26,796
DAVIS, MATTHEW D .....	OPHTHALMOLOGY .....	5T01 EY00039-11	36,244
FORSTER, FRANCIS M .....	NEUROLOGY .....	5T01 NS05098-19	34,560
GOODFRIEND, THEODORE L .....	MEDICAL SCIENCES .....	5T05 GM01932-07	94,454
HANSON, RICHARD S .....	MICROBIOLOGY .....	5T01 GM00686-15	67,132
HARPER, ALFRED E .....	NUTRITIONAL SCIENCES .....	5T01 GM02134-05	67,987
HAUSER, ROBERT M .....	METHODOLOGY IN SOCIOLOGY .....	5T01 GM01526-10	90,288
HAYES, CLAUDE S .....	AUDIOLOGY .....	5T01 NS05499-09	86,182
HIND, JOSEPH E .....	SENSORY PHYSIOLOGY AND BIOPHYSICS .....	1T32 NS07026-01	86,111
HINSDILL, RONALD D .....	ENVIRONMENTAL TOXICOLOGY .....	1T32 ES07015-01	121,608
KUNIN, CALVIN M .....	CLINICAL INFECTIOUS DISEASE-BACTERIOLOGY AND MYCOLOGY .....	5T01 AI00432-04	14,832
LOEB, MARTIN B .....	AGING .....	5T01 HD00160-07	80,358
MILLER, ELIZABETH C .....	CARCINOGENESIS .....	1T32 CA09020-01	113,724



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1975—Continued**

Program director	General area of training	Grant number	Dollars
<b>WISCONSIN—Con.</b>			
PITOT, HENRY C.....	CANCER.....	5T01 CA05002-19	137,051
PITOT, HENRY C.....	EXPERIMENTAL ONCOLOGY.....	1T32 CA09135-01	113,624
RANKIN, JOHN.....	PULMONARY MEDICINE.....	1T32 HL07016-01	102,082
ROWE, GEORGE G.....	MEDICAL CARDIOLOGY.....	5T01 HL05364-16	86,098
ROWND, ROBERT H.....	MOLECULAR BIOLOGY.....	5T01 GM01874-07	89,544
SIMPSON, DAVID P.....	NEPHROLOGY.....	5T01 AM05582-08	68,919
SLAUTTERBACK, DAVID B.....	ANATOMICAL SCIENCES.....	5T01 GM00723-15	83,119
SMITH, DONALD W.....	MEDICAL MICROBIOLOGY AND IMMUNOLOGY.....	5T01 AI00451-04	75,112
SUSMAN, MILLARD.....	GENETICS.....	5T01 GM00398-16	77,611
SUSMAN, MILLARD.....	MEDICAL GENETICS.....	1T32 GM07131-01	71,013
SUSMAN, MILLARD.....	GENETICS.....	1T32 GM07133-01	160,109
SUTTIE, JOHN W.....	NUTRITION.....	1T32 DE07031-01	53,244
SWEET, JAMES A.....	DEMOGRAPHY AND ECOLOGY.....	1T32 HD07014-01	36,598
TEMIN, HOWARD M.....	VIRAL ONCOLOGY.....	1T32 CA09075-01	233,161
WILSON, JOE B.....	CELLULAR AND MOLECULAR BIOLOGY.....	1T32 GM07215-01	356,664
WINSBOROUGH, HALLIMAN H.....	DEMOGRAPHY AND ECOLOGY.....	5T01 GM01190-12	61,396
ORGANIZATION TOTAL	36	3,229,372	

## MILWAUKEE

MEDICAL COLLEGE OF WISCONSIN		ZIP CODE 53233	
EDELHÄUSER, HENRY F.....	EYE PHYSIOLOGY AND BIOCHEMISTRY.....	1T32 EY07016-01	27,102
FINK, JORDAN N.....	ALLERGIC DISEASES.....	1T32 AI07006-01	38,016
LEMANN, JACOB, JR.....	RENAL PHYSIOLOGY, RENAL DISEASE AND HYPERTENSION.....	5T01 HL05949-02	46,033
RYTEL, MICHAEL W.....	INFECTIOUS DISEASES.....	5T01 AI00455-02	28,134
SCHULTZ, RICHARD O.....	OPHTHALMOLOGY.....	5T01 EY00045-08	63,388
ORGANIZATION TOTAL	5	202,673	
STATE TOTAL	41	3,432,045	

## PUERTO RICO

### SAN JUAN

UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS		ZIP CODE 00936	
MARCIAL, VICTOR A.....	CANCER—RADIATION THERAPY.....	5T01 CA05169-11	189,957
PICO, GUILLERMO.....	OPHTHALMOLOGY.....	5T01 EY00019-19	58,510
SANCHEZ-LONGO, LUIS P.....	NEUROLOGY.....	3T01 NS05253-16S1	1,007
SANCHEZ-LONGO, LUIS P.....	NEUROLOGY.....	5T01 NS05253-17	13,404
SORRENTINO, RAFAEL.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08117-09	59,153
ORGANIZATION TOTAL	5	322,031	
STATE TOTAL	5	322,031	

**Table 4.—Cancer Research Facilities Construction  
Grants, by Area, Organization, and Responsible  
Official, Fiscal Year 1975**

Responsible official	Construction program	Grant No.	Dollars
TOTAL, 12 GRANTS.....			30,000,000

## CALIFORNIA

### LA JOLLA

SALK INSTITUTE FOR BIOLOGICAL STUDIES      ZIP CODE 92037

BERNSTEIN, JAMES E.....	LABORATORY ANIMAL RESEARCH FACILITY.....	1C06 CA13706-01	1,800,000
ORGANIZATION TOTAL	1	1,800,000	

### LOS ANGELES

UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES      ZIP CODE 90024

STECKEL, RICHARD J.....	EXISTING CANCER FACILITY.....	1C06 CA16595-01	5,062,500
ORGANIZATION TOTAL	1	5,062,500	
STATE TOTAL	2	6,862,500	

## CONNECTICUT

### NEW HAVEN

YALE UNIVERSITY      ZIP CODE 06520

BERTINO, JOSEPH.....	REMODELING NEW CANCER FACILITY.....	3C06 CA16360-01A1S1	1,274,372
ORGANIZATION TOTAL	1	1,274,372	
STATE TOTAL	1	1,274,372	

## ILLINOIS

### CHICAGO

UNIVERSITY OF CHICAGO      ZIP CODE 60637

JACOBSON, LEON O.....	REMODELING NEW CANCER FACILITY.....	3C06 CA14696-01S1	455,136
ORGANIZATION TOTAL	1	455,136	
STATE TOTAL	1	455,136	

NOTE: For comments on organizations, see appendix.

**Table 4.—Cancer Research Facilities Construction Grants,  
by Area, Organization, and Responsible Official,  
Fiscal Year 1975—Continued**

Responsible official	Construction program	Grant No.	Dollars
<b>MASSACHUSETTS</b>			
<b>BOSTON</b>			
<b>SIDNEY FARBER CANCER CENTER</b>	<b>ZIP CODE 02115</b>		
FREI, EMIL, III.....	CANCER FACILITY.....	1C06 CA17420-01	4,896,863
ORGANIZATION TOTAL	1 4,896,863		
<b>TUFTS UNIVERSITY</b>	<b>ZIP CODE 02111</b>		
FISHMAN, WILLIAM H.....	REMODELING CANCER FACILITY.....	1C06 CA14206-01A1	150,000
ORGANIZATION TOTAL	1 150,000		
STATE TOTAL	2 5,046,863		
<b>MICHIGAN</b>			
<b>DETROIT</b>			
<b>MICHIGAN CANCER FOUNDATION</b>	<b>ZIP CODE 48201</b>		
PETTIT, JOHN W.....	REMODELING RESEARCH FACILITY.....	1C06 CA17696-01	184,350
ORGANIZATION TOTAL	1 184,350		
STATE TOTAL	1 184,350		
<b>MISSOURI</b>			
<b>UNIVERSITY CITY</b>			
<b>WASHINGTON UNIVERSITY</b>	<b>ZIP CODE 63130</b>		
THACH, ROBERT E.....	REMODELING & EXPANSION OF EXISTING CANCER FACILITY.....	1C06 CA16082-01	733,438
ORGANIZATION TOTAL	1 733,438		
STATE TOTAL	1 733,438		
<b>NEW YORK</b>			
<b>NEW YORK</b>			
<b>COLUMBIA UNIVERSITY</b>	<b>ZIP CODE 10027</b>		
PUTNEY, FREDERICK B.....	NEW CANCER FACILITY.....	1C06 CA16604-01	5,890,095
ORGANIZATION TOTAL	1 5,890,095		
<b>NEW YORK UNIVERSITY</b>	<b>ZIP CODE 10003</b>		
ARAKELIAN, PETER.....	EXPANDING & REMODELING OF EXISTING CANCER FACILITY.....	1C06 CA16241-01	704,072
ORGANIZATION TOTAL	1 704,072		
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH</b>	<b>ZIP CODE 10021</b>		
GOOD, ROBERT A.....	REMODELING CANCER FACILITY.....	1C06 CA16596-01	199,612
ORGANIZATION TOTAL	1 199,612		
<b>YESHIVA UNIVERSITY</b>	<b>ZIP CODE 10033</b>		
FRIEDMAN, EPHRAIM.....	NEW CANCER FACILITY.....	1C06 CA15023-01	8,649,562
ORGANIZATION TOTAL	1 8,649,562		
STATE TOTAL	4 15,443,341		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975**

Responsible official	Grant No.	Dollars
TOTAL 75 GRANTS.....		1,469,343

## ALABAMA

### BIRMINGHAM

UNIVERSITY OF ALABAMA IN BIRMINGHAM	ZIP CODE 35294		
MUELLER, DOROTHY.....	1G08 LM02448-01		39,429
ORGANIZATION TOTAL	1	39,429	
STATE TOTAL	1	39,429	

## CALIFORNIA

### BERKELEY

UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT BERKELEY	ZIP CODE 94720		
DOUGHERTY, RICHARD M.....	5G08 LM02143-02		30,997
ORGANIZATION TOTAL	1	30,997	

### FRESNO

FRESNO COMMUNITY HOSPITAL	ZIP CODE 93715		
HELZER, JAMES D.....	1G07 LM02647-01		2,974
ORGANIZATION TOTAL	1	2,974	

### HANFORD

SACRED HEART HOSPITAL	ZIP CODE 93230		
CHRISTENSEN, L F.....	1G07 LM02559-01		1,700
ORGANIZATION TOTAL	1	1,700	

### LOS ANGELES

UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES	ZIP CODE 90024		
CHASE, MICHAEL H.....	1G08 LM02307-01		94,907
ORGANIZATION TOTAL	1	94,907	

### LOS BANOS

LOS BANOS COMMUNITY HOSPITAL	ZIP CODE 93635		
POLLOCK, MICHAEL.....	1G07 LM02395-01		2,460
ORGANIZATION TOTAL	1	2,460	

NOTE: For comments on organizations, see appendix.



**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official			Grant No.	Dollars
CALIFORNIA—Con.				
MERCED				
MERCED COMMUNITY MEDICAL CENTER			ZIP CODE 95340	
VOLLA, STEVE.....			1G07 LM02662-01	2,465
ORGANIZATION TOTAL	1	2,465		
SANTA ROSA				
SANTA ROSA MEMORIAL HOSPITAL			ZIP CODE 95402	
SCHRECK, EDWARD.....			1G07 LM02484-01	3,150
ORGANIZATION TOTAL	1	3,150		
STATE TOTAL	7	138,653		
CONNECTICUT				
FARMINGTON				
UNIVERSITY OF CONNECTICUT HEALTH CENTER			ZIP CODE 06032	
LAMB, GERTRUDE.....			5G08 LM02295-02	66,445
ORGANIZATION TOTAL	1	66,445		
STATE TOTAL	1	66,445		
DIST OF COL				
WASHINGTON				
CATHOLIC UNIVERSITY OF AMERICA			ZIP CODE 20017	
WAGNER, LLOYD F.....			1G08 LM01738-01A1	29,250
ORGANIZATION TOTAL	1	29,250		
STATE TOTAL	1	29,250		
HAWAII				
HONOLULU				
HAWAII MEDICAL LIBRARY			ZIP CODE 96813	
WINTERS, CLYDE J.....			5G04 LM02235-02	42,833
ORGANIZATION TOTAL	1	42,833		
UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA			ZIP CODE 96822	
ROGERS, TERENCE A.....			1G08 LM02532-01	49,748
ORGANIZATION TOTAL	1	49,748		
STATE TOTAL	2	92,581		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official	Grant No.	Dollars
<b>ILLINOIS</b>		
<b>CARBONDALE</b>		
<b>SOUTHERN ILLINOIS UNIVERSITY</b> <b>ZIP CODE 62901</b>		
HOWARD, ANN .....	5G08 LM02130-02	20,000
ORGANIZATION TOTAL      1      20,000		
<b>CHICAGO</b>		
<b>JOHN CRERAR LIBRARY</b> <b>ZIP CODE 60616</b>		
PLETZKE, CHESTER J. ....	5G04 LM02000-03	24,259
ORGANIZATION TOTAL      1      24,259		
<b>NORTHWESTERN UNIVERSITY</b> <b>ZIP CODE 60611</b>		
ORFANOS, MINNIE .....	5G08 LM02276-02	12,108
ORGANIZATION TOTAL      1      12,108		
<b>PROVIDENT HOSPITAL AND TRAINING SCHOOL</b> <b>ZIP CODE 60615</b>		
DORN, STEPHEN E. ....	1G07 LM02473-01	3,000
ORGANIZATION TOTAL      1      3,000		
STATE TOTAL      4      59,367		
<b>INDIANA</b>		
<b>INDIANAPOLIS</b>		
<b>INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS</b> <b>ZIP CODE 46202</b>		
LAATZ, MARY J. ....	5G04 LM02016-03	25,386
ORGANIZATION TOTAL      1      25,386		
<b>TERRE HAUTE</b>		
<b>INDIANA STATE UNIVERSITY</b> <b>ZIP CODE 47809</b>		
TANNENBAUM, EARL .....	5G08 LM01980-03	6,552
ORGANIZATION TOTAL      1      6,552		
STATE TOTAL      2      31,938		
<b>IOWA</b>		
<b>AMES</b>		
<b>IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY</b> <b>ZIP CODE 50010</b>		
PETERSON, SARA R. ....	5G08 LM01983-03	27,667
ORGANIZATION TOTAL      1      27,667		
<b>IOWA CITY</b>		
<b>UNIVERSITY OF IOWA</b> <b>ZIP CODE 52242</b>		
ELMAS, RICHARD .....	5G04 LM02081-02	29,399
ORGANIZATION TOTAL      1      29,399		
STATE TOTAL      2      57,066		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official			Grant No.	Dollars
<b>KENTUCKY</b>				
<b>LEXINGTON</b>				
<b>UNIVERSITY OF KENTUCKY</b>			<b>ZIP CODE 40506</b>	
STITH, JANET .....			1G08 LM02520-01	43,159
ORGANIZATION TOTAL	1	43,159		
STATE TOTAL	1	43,159		
<b>LOUISIANA</b>				
<b>LAFAYETTE</b>				
<b>LOUISIANA HLTH AND SOCIAL AND REHAB SRVCS ADMIN-LAFAYETTE CHARITY HOSPITAL</b>			<b>ZIP CODE 70501</b>	
VOORHIES, DANIEL .....			1G08 LM02363-01	17,730
ORGANIZATION TOTAL	1	17,730		
<b>NEW ORLEANS</b>				
<b>LOUISIANA STATE UNIVERSITY SYSTEM-LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS</b>			<b>ZIP CODE 70119</b>	
ISCHE, JOHN P .....			5G04 LM01877-03	8,309
ORGANIZATION TOTAL	1	8,309		
STATE TOTAL	2	26,039		
<b>MAINE</b>				
<b>AUGUSTA</b>				
<b>AUGUSTA GENERAL HOSPITAL</b>			<b>ZIP CODE 04330</b>	
KESSLER, WARREN C .....			1G08 LM02334-01A1	57,007
ORGANIZATION TOTAL	1	57,007		
STATE TOTAL	1	57,007		
<b>MARYLAND</b>				
<b>BALTIMORE</b>				
<b>FRANKLIN SQUARE HOSPITAL</b>			<b>ZIP CODE 21237</b>	
HOPKINS, JOAN M .....			5G08 LM02003-02	3,085
ORGANIZATION TOTAL	1	3,085		
<b>JOHNS HOPKINS UNIVERSITY</b>			<b>ZIP CODE 21218</b>	
POLACSEK, RICHARD A .....			1G08 LM02445-01	23,253
ORGANIZATION TOTAL	1	23,253		
STATE TOTAL	2	26,338		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official	Grant No.	Dollars
<b>MASSACHUSETTS</b>		
<b>BOSTON</b>		
<b>HARVARD UNIVERSITY</b> <b>ZIP CODE 02138</b>		
BLOOMQUIST, HAROLD .....	5G08 LM01858-03	13,079
ORGANIZATION TOTAL      1      13,079		
STATE TOTAL      1      13,079		
<b>MICHIGAN</b>		
<b>DETROIT</b>		
<b>WAYNE STATE UNIVERSITY</b> <b>ZIP CODE 48202</b>		
PIGS, VERN M .....	5G08 LM02115-02	75,400
ORGANIZATION TOTAL      1      75,400		
STATE TOTAL      1      75,400		
<b>MINNESOTA</b>		
<b>BRECKENRIDGE</b>		
<b>ST. FRANCIS HOSPITAL</b> <b>ZIP CODE 55520</b>		
ENGSTROM, PERRY H. ....	1G07 LM02483-01	3,113
ORGANIZATION TOTAL      1      3,113		
<b>COON RAPIDS</b>		
<b>MERCY HOSPITAL</b> <b>ZIP CODE 55433</b>		
WALDHAUSER, BARBARA .....	1G07 LM02610-01	2,941
ORGANIZATION TOTAL      1      2,941		
<b>DULUTH</b>		
<b>UNIVERSITY OF MINNESOTA</b> <b>ZIP CODE 55812</b>		
HAFNER, ARTHUR W. ....	5G08 LM02135-02	7,580
ORGANIZATION TOTAL      1      7,580		
<b>FERGUS FALLS</b>		
<b>LAKE REGION HOSPITAL</b> <b>ZIP CODE 56537</b>		
BECKLER, LAVONNE .....	1G07 LM02565-01	3,082
ORGANIZATION TOTAL      1      3,082		
<b>MINNEAPOLIS</b>		
<b>HENNEPIN COUNTY MEDICAL CENTER *</b> <b>ZIP CODE 55415</b>		
ARANY, RUTH A. ....	1G08 LM02329-01	3,903
ORGANIZATION TOTAL      1      3,903		
<b>UNIVERSITY OF MINNESOTA</b> <b>ZIP CODE 55455</b>		
BRUDVIG, GLENN L. ....	3G08 LM01507-03S1	58,230
BRUDVIG, GLENN L. ....	5G04 LM01965-03	28,429
ORGANIZATION TOTAL      2      86,659		



**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official			Grant No.	Dollars
<b>MINNESOTA—Con.</b>				
<b>MOORHEAD</b>				
ST. ANSGAR HOSPITAL			ZIP CODE 56560	
KOLLES, SISTER MARY DE LOURDES			1G07 LM02476-01	2,904
ORGANIZATION TOTAL	1	2,904		
<b>SOUTH SAINT PAUL</b>				
DIVINE REDEEMER MEMORIAL HOSPITAL			ZIP CODE 55075	
DUNHAM, LUCILLE G			1G07 LM02558-01	2,944
ORGANIZATION TOTAL	1	2,944		
STATE TOTAL	9	113,126		
<b>MISSISSIPPI</b>				
<b>JACKSON</b>				
HINDS GENERAL HOSPITAL			ZIP CODE 39204	
WILSON, ROBERT G			1G07 LM02648-01	3,000
ORGANIZATION TOTAL	1	3,000		
STATE TOTAL	1	3,000		
<b>MONTANA</b>				
<b>BOZEMAN</b>				
MONTANA STATE UNIVERSITY			ZIP CODE 59715	
MC CLAIN, ALICE			1G08 LM02550-01	50,000
ORGANIZATION TOTAL	1	50,000		
STATE TOTAL	1	50,000		
<b>NEBRASKA</b>				
<b>OMAHA</b>				
CREIGHTON UNIVERSITY			ZIP CODE 68178	
WANNARKA, MARJORIE			1G08 LM02512-01	44,523
ORGANIZATION TOTAL	1	44,523		
UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER			ZIP CODE 68105	
BENSCHOTER, REBA A			1G08 LM02501-01	74,199
BISHOP, DAVID			5G04 LM02080-02	26,501
ORGANIZATION TOTAL	2	100,700		
STATE TOTAL	3	145,223		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official	Grant No.	Dollars
<b>NEW HAMPSHIRE</b>		
<b>DURHAM</b>		
<b>NEW ENGLAND HOSPITAL ASSEMBLY, INC.      ZIP CODE 03824</b>		
DOLPH, JAMES.....	5G08 LM01870-03	58,493
ORGANIZATION TOTAL      1      58,493		
<b>FRANKLIN</b>		
<b>FRANKLIN REGIONAL HOSPITAL      ZIP CODE 03235</b>		
GEILER, HILDA M.....	1G07 LM02403-01	3,100
ORGANIZATION TOTAL      1      3,100		
STATE TOTAL      2      61,593		
<b>NEW JERSEY</b>		
<b>CAMDEN</b>		
<b>SOUTHWEST NEW JERSEY CONSORTIUM FOR HEALTH INFORMATION SERVICES      ZIP CODE 08103</b>		
THOMPSON, MARIE C.....	1G08 LM02132-01A1	16,595
ORGANIZATION TOTAL      1      16,595		
<b>NEWARK</b>		
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY      ZIP CODE 07103</b>		
ROSENSTEIN, PHILIP.....	5G08 LM02238-02	40,446
ORGANIZATION TOTAL      1      40,446		
STATE TOTAL      2      57,041		
<b>NEW YORK</b>		
<b>BUFFALO</b>		
<b>MERCY HOSPITAL      ZIP CODE 14220</b>		
ANNUNCIATA, SISTER MARY.....	1G07 LM02397-01	3,000
ORGANIZATION TOTAL      1      3,000		
<b>CENTRAL ISLIP</b>		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE-CENTRAL ISLIP PSYCHIATRIC CENTER      ZIP CODE 11722</b>		
MEYER, SANDRA K.....	1G07 LM02396-01	2,604
ORGANIZATION TOTAL      1      2,604		
<b>WASSAIC</b>		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE-WASSAIC DEVELOPMENTAL CENTER      ZIP CODE 12592</b>		
MONAGHAN, PATRICIA.....	1G07 LM02556-01	3,000
ORGANIZATION TOTAL      1      3,000		
STATE TOTAL      3      8,604		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official			Grant No.	Dollars
<b>NORTH DAKOTA</b>				
<b>DICKINSON</b>				
ST. JOSEPH'S HOSPITAL      ZIP CODE 58601				
STRANIK, ALICE L.....			1G07 LM02441-01	3,212
ORGANIZATION TOTAL	1	3,212		
<b>GRAND FORKS</b>				
UNIVERSITY OF NORTH DAKOTA      ZIP CODE 58201				
YOUNGGREN, MELBA L.....			5G04 LM02010-03	19,564
ORGANIZATION TOTAL	1	19,564		
<b>RUGBY</b>				
GOOD SAMARITAN HOSPITAL      ZIP CODE 58368				
WALTZ, RONALD D.....			1G07 LM02384-01	3,198
ORGANIZATION TOTAL	1	3,198		
STATE TOTAL	3	25,974		
<b>OHIO</b>				
<b>CINCINNATI</b>				
CHILDREN'S HOSPITAL MEDICAL CENTER      ZIP CODE 45229				
SCHUTTE, MICHELE G.....			1G08 LM02446-01	3,338
ORGANIZATION TOTAL	1	3,338		
STATE TOTAL	1	3,338		
<b>OKLAHOMA</b>				
<b>LAWTON</b>				
CAMERON UNIVERSITY      ZIP CODE 73501				
PHILLIPS, ROBERT S.....			5G08 LM02236-02	16,425
ORGANIZATION TOTAL	1	16,425		
STATE TOTAL	1	16,425		
<b>OREGON</b>				
<b>PORTLAND</b>				
EMANUEL HOSPITAL      ZIP CODE 97227				
UHLAND, HUGO.....			1G07 LM02481-01	3,000
ORGANIZATION TOTAL	1	3,000		
STATE TOTAL	1	3,000		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official			Grant No.	Dollars
<b>PENNSYLVANIA</b>				
<b>KINGSTON</b>				
NESBITT MEMORIAL HOSPITAL	ZIP CODE 18704			
MC CREA, KATHERINE L.....			5G08 LM01940-03	7,685
ORGANIZATION TOTAL	1	7,685		
<b>PHILADELPHIA</b>				
FRIENDS HOSPITAL	ZIP CODE 19124			
WEINER, NORMAN D.....			1G07 LM02387-01	3,125
ORGANIZATION TOTAL	1	3,125		
<b>WILKES-BARRE</b>				
MERCY HOSPITAL	ZIP CODE 18703			
BRENNAN, SISTER MIRIAM R.....			5G08 LM01936-03	6,029
ORGANIZATION TOTAL	1	6,029		
WILKES-BARRE GENERAL HOSPITAL	ZIP CODE 18702			
STEVENS, ROBERT L.....			5G08 LM01962-03	6,000
ORGANIZATION TOTAL	1	6,000		
STATE TOTAL	4	22,839		
<b>RHODE ISLAND</b>				
<b>PROVIDENCE</b>				
WOMEN AND INFANTS HOSPITAL OF RHODE ISLAND	ZIP CODE 02908			
MC GRATH, PATRICIA J.....			1G07 LM02555-01	3,300
ORGANIZATION TOTAL	1	3,300		
STATE TOTAL	1	3,300		
<b>SOUTH CAROLINA</b>				
<b>CHARLESTON</b>				
MEDICAL UNIVERSITY OF SOUTH CAROLINA	ZIP CODE 29401			
SAWYER, WARREN A.....			5G08 LM01820-03	12,446
SAWYER, WARREN A.....			1G08 LM02272-01	33,333
ORGANIZATION TOTAL	2	45,779		
STATE TOTAL	2	45,779		
<b>SOUTH DAKOTA</b>				
<b>ABERDEEN</b>				
ST. LUKE'S HOSPITAL	ZIP CODE 57401			
PATTON, DAVID W.....			1G07 LM02671-01	2,500
ORGANIZATION TOTAL	1	2,500		



**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official			Grant No.	Dollars
<b>SOUTH DAKOTA—Con.</b>				
<b>BROOKINGS</b>				
BROOKINGS HOSPITAL AND BROOKVIEW MANOR			ZIP CODE 57006	
POLK, ROBERT L.....			1G07 LM02499-01	2,800
ORGANIZATION TOTAL	1	2,800		
<b>VERMILION</b>				
UNIVERSITY OF SOUTH DAKOTA			ZIP CODE 57069	
BRENNEN, PATRICK W.....			1G08 LM02433-01	33,403
ORGANIZATION TOTAL	1	33,403		
<b>YANKTON</b>				
SACRED HEART HOSPITAL			ZIP CODE 57078	
MAY, JOSEPH B.....			1G07 LM02452-01	3,250
ORGANIZATION TOTAL	1	3,250		
STATE TOTAL	4	41,953		
<b>TENNESSEE</b>				
<b>NASHVILLE</b>				
MID-CUMBERLAND COMPREHENSIVE HEALTH PLANNING COUNCIL			ZIP CODE 37204	
O'CONNELL, OWEN P.....			1G07 LM02665-01	3,353
ORGANIZATION TOTAL	1	3,353		
STATE TOTAL	1	3,353		
<b>TEXAS</b>				
<b>CORPUS CHRISTI</b>				
MEMORIAL MEDICAL CENTER			ZIP CODE 78405	
SUMMERS, MARGARET.....			1G08 LM02519-01	34,130
ORGANIZATION TOTAL	1	34,130		
<b>GILMER</b>				
NORTHEAST TEXAS COUNCIL OF HEALTH RESOURCES			ZIP CODE 75644	
GLENN, VERNON B.....			1G08 LM02348-01	16,914
ORGANIZATION TOTAL	1	16,914		
STATE TOTAL	2	51,044		
<b>UTAH</b>				
<b>SALT LAKE CITY</b>				
UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH			ZIP CODE 84112	
GOSS, ANNE S.....			3G08 LM01834-01S1	2,571
ORGANIZATION TOTAL	1	2,571		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1975—Continued**

Responsible official			Grant No.	Dollars
<b>UTAH—Con.</b>				
STATE TOTAL	1	2,571		
<b>VERMONT</b>				
<b>BURLINGTON</b>				
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE			ZIP CODE 05401	
GILLIES, ELLEN.....			2G08 LM01258-04	8,808
ORGANIZATION TOTAL	1	8,808		
STATE TOTAL	1	8,808		
<b>WEST VIRGINIA</b>				
<b>WHEELING</b>				
WHEELING HOSPITAL			ZIP CODE 26003	
LONER, ANNE S.....			1G07 LM02312-01A1	3,100
ORGANIZATION TOTAL	1	3,100		
STATE TOTAL	1	3,100		
<b>WISCONSIN</b>				
<b>ASHLAND</b>				
MEMORIAL MEDICAL CENTER			ZIP CODE 54806	
TRAUTT, JUDY.....			1G07 LM02557-01	3,064
ORGANIZATION TOTAL	1	3,064		
<b>MADISON</b>				
UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON			ZIP CODE 53706	
HOLTZ, VIRGINIA H.....			5G04 LM02027-03	37,297
ORGANIZATION TOTAL	1	37,297		
<b>WOODRUFF</b>				
HOWARD YOUNG MEDICAL CENTER			ZIP CODE 54568	
BESELER, MARCIA.....			1G07 LM02472-01	3,160
ORGANIZATION TOTAL	1	3,160		
STATE TOTAL	3	43,521		



## APPENDIX

### Notes on Selected Organizations

Organizations appearing in more than one geographical location or requiring a clarifying comment are listed below in alphabetic sequence. Comments on certain foundations or on organizations whose names have changed since last year appear after the name of the organization. The tables in which the organizations may be found are shown in parentheses following their locations.

#### United States

- Carnegie Institution of Washington, D.C.--Washington, D.C.; Baltimore, Md. (2)
- City University of New York--New York (3 units), N.Y. (2,3)
- College of Medicine and Dentistry of New Jersey--Newark, Piscataway, N.J. (2,3,5)
- Cornell University--Ithaca, New York, N.Y. (2,3)
- Eye Research Institute of Retina Foundation (formerly shown as Retina Foundation)--Boston, Mass. (2,3)
- Harvard University--Boston, Cambridge, Mass. (2,3)
- Indiana University System--Bloomington, Indianapolis, Ind. (2,3,5)
- Louisiana State University System--Baton Rouge, New Orleans, La. (2,3,5)
- Mayo Foundation--Rochester (2 units), Minn. (2,3)
- New York State Department of Health (may include awards to Health Research, Inc.)--Buffalo, N.Y. (2,3)
- New York State Department of Mental Hygiene (may include awards to the New York State Research Foundation for Mental Hygiene)--Buffalo, Central Islip, Wassaic, N.Y. (2,5)
- Northwestern University--Chicago, Evanston, Ill. (2,3,5)
- Oregon State Higher Education System--Corvallis, Eugene, Portland, Oreg. The University of Oregon Health Sciences Center in Portland includes the medical and dental schools which were formerly shown separately. (2,3)
- Pennsylvania State University--Hershey, University Park, Pa. (2,3)
- Purdue University (formerly shown at Lafayette, Ind.)--West Lafayette, Ind. (2,3)
- Rush-Presbyterian-St. Luke's Medical Center--Chicago (2 units), Ill. (2,3)
- Rutgers University--New Brunswick, Newark, N.J. (2,3)
- Sidney Farber Cancer Center (formerly shown as Children's Cancer Research Foundation)--Boston, Mass. (2-4)
- State University of Florida System--Gainesville, Tallahassee, Fla. (2,3)
- State University of New York--Albany, Binghamton, Buffalo (2 units), New York, Stony Brook, Syracuse, N.Y. (2,3)
- U.S. Department of Health, Education, and Welfare--Atlanta (2 units), Ga.; Baltimore, Bethesda, Rockville, Md.; Research Triangle Park, N.C. (2)
- United Hospitals (includes Charles T. Miller Hospital formerly shown separately)--St. Paul, Minn. (3)



University of California System--Berkeley, Davis, Irvine, La Jolla, Los Angeles, San Francisco, Santa Barbara, Santa Cruz, Calif.  
 The unit in La Jolla may include awards to the Friends of Psychiatric Research of San Diego. (2,5)

University of Colorado--Boulder, Denver, Colo. (2,3)

University of Connecticut--Farmington, Storrs, Conn. (2,3,5)

University of Illinois System--Chicago (2 units), Urbana, Ill. (2,3)

University of Kansas--Kansas City, Lawrence, Kans. (2,3)

University of Maryland System--Baltimore, Catonsville, College Park, Md. (2,3)

University of Massachusetts System--Amherst, Worcester, Mass. (2,3)

University of Miami--Coral Gables, Miami, Fla. (2,3)

University of Minnesota--Duluth, Minneapolis, St. Paul, Minn. (2,3,5)

University of Mississippi--Jackson, University, Miss. (2,3)

University of Missouri System--Columbia, Kansas City, Mo. The unit at Kansas City includes the Institute for Community Studies formerly shown separately. (2,3)

University of North Carolina System--Chapel Hill, Raleigh, N.C. (2,3)

University of Oklahoma--Norman, Oklahoma City, Okla. (2,3)

University of Tennessee System--Knoxville, Memphis, Tenn. The University of Tennessee Center for Health Sciences was formerly shown as University of Tennessee Medical Units. (2,3)

University of Texas System--Austin, Dallas, El Paso, Galveston, Houston (2 units), San Antonio, Tex. (2,3)

University System of Georgia--Athens, Atlanta, Augusta, Ga. (2,3)

Utah State Higher Education System--Logan, Salt Lake City, Utah (2,3,5)

Veterans Administration--Los Angeles, Sepulveda, Calif.; Minneapolis, Minn. (2)

Washington University (formerly shown at St. Louis, Mo.)--University City, Mo. (2-4)

#### Other Countries

Medical Research Council--Cambridge (3 units), London, United Kingdom (2)

National Center for Scientific Research--Gif-Sur-Yvette, Strasbourg, France (2)

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# NATIONAL INSTITUTES OF HEALTH

Research Grants

Fiscal Year 1976 and  
Transition Quarter Funds



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service      National Institutes of Health



**DISCRIMINATION PROHIBITED:** Under provisions of applicable public laws enacted by Congress since 1964, no person in the United States shall, on the ground of race, color, national origin, sex, or handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. In addition, Executive Order 11141 prohibits discrimination on the basis of age by contractors and subcontractors in the performance of Federal contracts. Therefore, the National Institutes of Health grants and awards program, like every program or activity receiving financial assistance from the Department of Health, Education, and Welfare, must be operated in compliance with these laws and executive order.

# **NATIONAL INSTITUTES OF HEALTH**

## **Research Grants**

### **Fiscal Year 1976 and Transition Quarter Funds**

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service                      National Institutes of Health

DHEW Publication No. (NIH) 77-1042

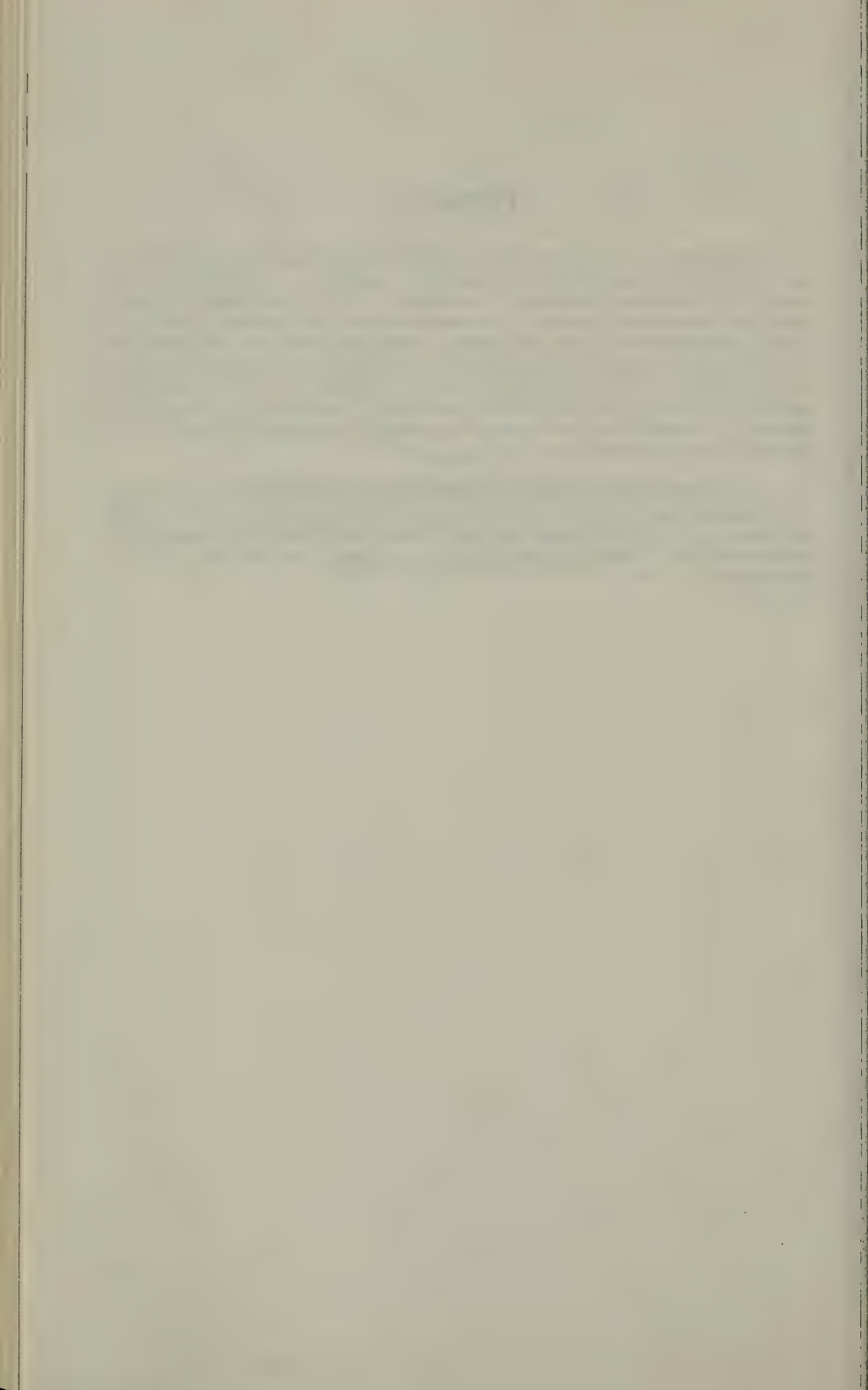
Prepared by  
NATIONAL INSTITUTES OF HEALTH  
DIVISION OF RESEARCH GRANTS  
Statistics and Analysis Branch

## PREFACE

The mission of the National Institutes of Health is to protect and improve the health of the American people. To achieve this goal, NIH conducts biomedical research in its own laboratories; provides grants to nonprofit organizations and academic institutions for research; provides grants for the training of research investigators; supports biomedical communications through programs and activities of the National Library of Medicine; and provides grants for facilities and other resources required for cancer research. In addition, the research contract mechanism is used under appropriate circumstances.

Listings of NIH grants and research and development contracts are prepared annually by the Division of Research Grants. This book presents a listing of research grants awarded from fiscal year 1976 funds and from funds available for the transition quarter, July 1-September 30, 1976.





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## INTRODUCTION

### *Coverage*

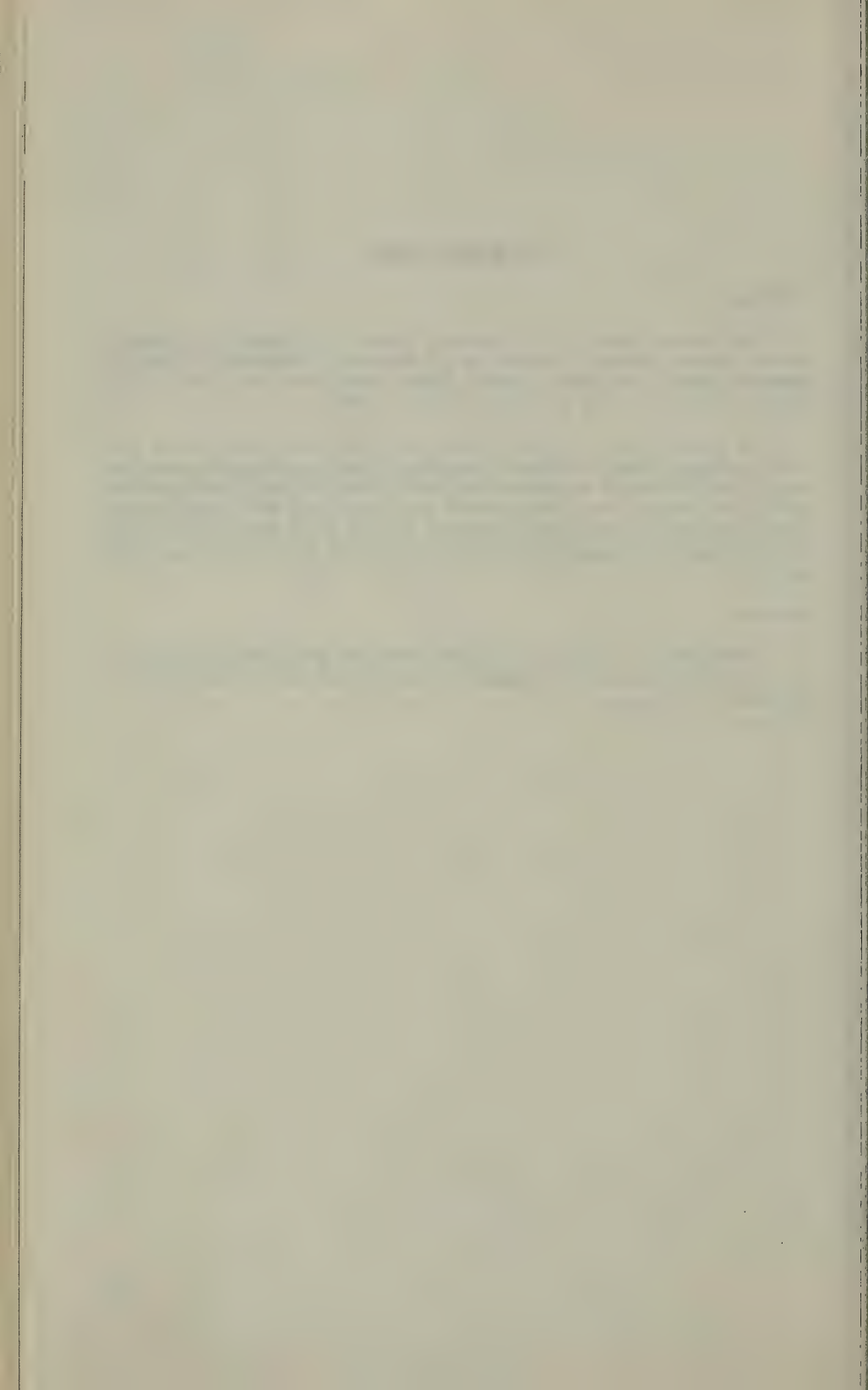
This volume presents the research grants (including the research career program awards) awarded by the National Institutes of Health. Research grants awarded by other constituent agencies of the Public Health Service are not included in this volume.

The awards shown in this volume are those made from fiscal year 1976 funds and from funds made available for the transition quarter, July 1, 1976 through September 30, 1976. The inclusion of the three additional months was necessitated for compliance with the Congressional Budget and Impoundment Control Act of 1974, Public Law 93-344, which changed the beginning of the fiscal year from July 1 to October 1.

### *Appendix*

Organizations appearing in more than one geographical location, or requiring a clarifying comment, are listed in the Appendix in alphabetic sequence.





## TECHNICAL NOTE

### *Organization Identification*

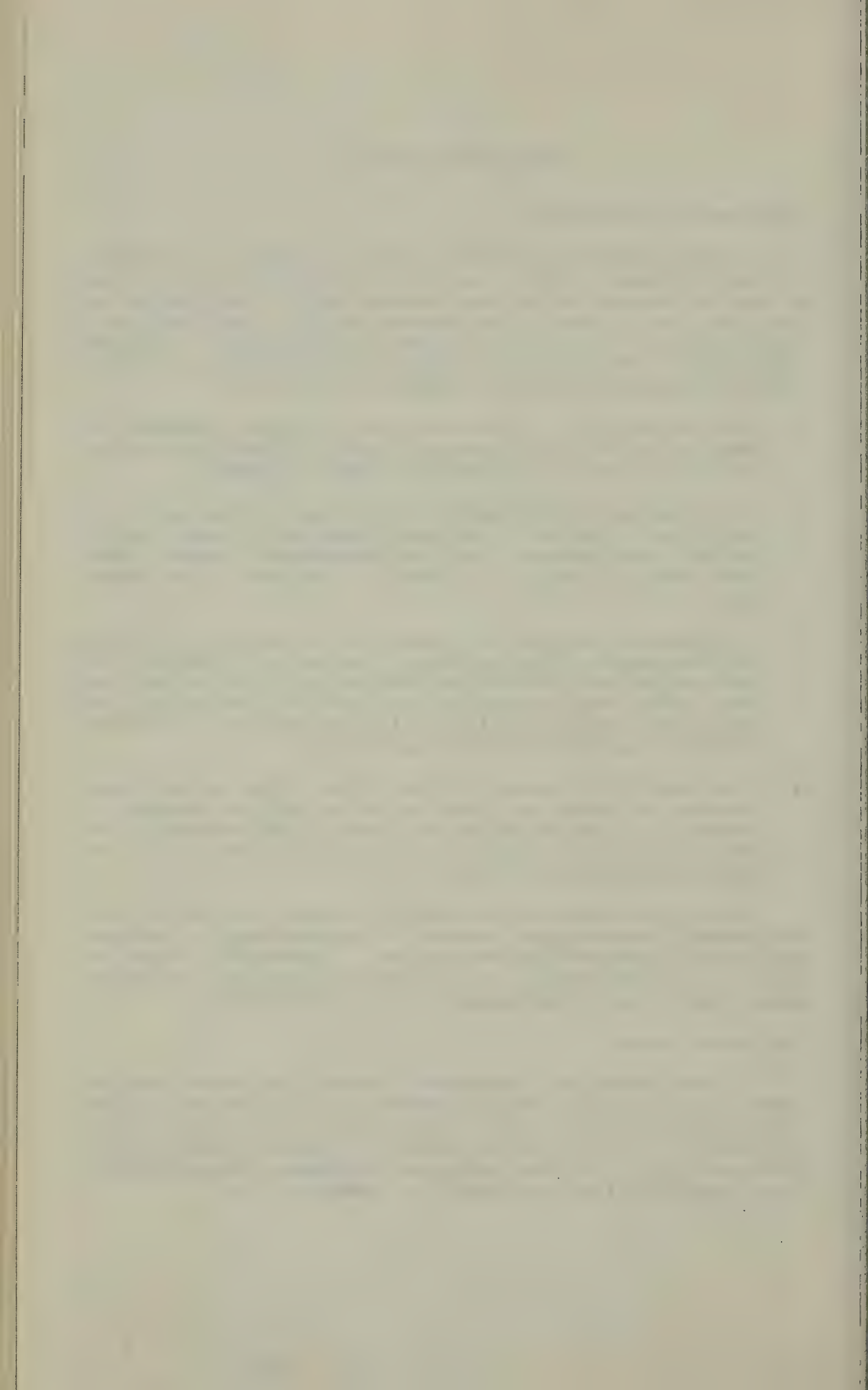
In the presentation of grants made from fiscal year 1976 funds, emphasis is placed on listing the organizations in the city and State of the unit in which professional responsibility of the principal investigator lies. Study of the structure of grantee organizations in the United States (primarily universities and colleges, and State Departments of Mental Health or their equivalents) has led to the following qualifications in the listing of their names:

1. Within a given city, if an institution of higher education is comprised of two or more campuses reporting directly to the central administration, each campus is listed separately.
2. In the listing of governmental organizations, Federal as well as non-Federal, the name of the parent department precedes that of the individual component, and the organization is listed as many times within a given city as there are components of the organization receiving grants.
3. If a foundation has been established for the purpose of receiving and administering funds for grants, the name and location of the organization having professional responsibility for the grant are shown rather than the name and location of the foundation. The name of the foundation is indicated in the Appendix if it differs materially from the name of the organization.
4. If an association receiving a grant has a fixed national headquarters, the grants are listed at the headquarters location. If however, the association does not have a fixed headquarters, the grants are listed in the city shown for this organization in the Encyclopedia of Associations.

These qualifications do not apply to foreign institutions or to some domestic organizations, because a systematic study of their organizational structure has not been made. Organizations which require a clarifying comment, or which appear in more than one geographical location are listed alphabetically in the Appendix.

### *Supplemental Awards*

In this publication, supplemental awards are combined with the parent grant, or with other supplements, when both awards are made from the same fiscal year funds. Supplemental grants awarded in fiscal year 1976 to parent grants awarded in a previous fiscal year are shown separately; if two or more such supplements were made during fiscal year 1976, these supplements are combined.



## ABBREVIATIONS

The NIH component supporting a grant is indicated by the code letters in the left-hand column. These code letters form part of the identification of the grant number.

*Code for  
supporting  
component*

*Abbreviation  
of supporting  
component*

	Institutes and Research Divisions.....	IRD
AG	National Institute on Aging.....	NIA
AI	National Institute of Allergy and Infectious Diseases.....	NIAID
AM	National Institute of Arthritis, Metabolism, and Digestive Diseases.....	NIAMDD
CA	National Cancer Institute.....	NCI
DE	National Institute of Dental Research.....	NIDR
ES	National Institute of Environmental Health Sciences.....	NIEHS
EY	National Eye Institute.....	NEI
GM	National Institute of General Medical Sciences.....	NIGMS
HD	National Institute of Child Health and Human Development.....	NICHD
HL	National Heart, Lung, and Blood Institute.....	NHLBI
NS	National Institute of Neurological and Communicative Disorders and Stroke.....	NINCDS
RR	Division of Research Resources.....	DRR
TW	Fogarty International Center.....	FIC
LM	National Library of Medicine.....	NLM
	National Institutes of Health.....	NIH



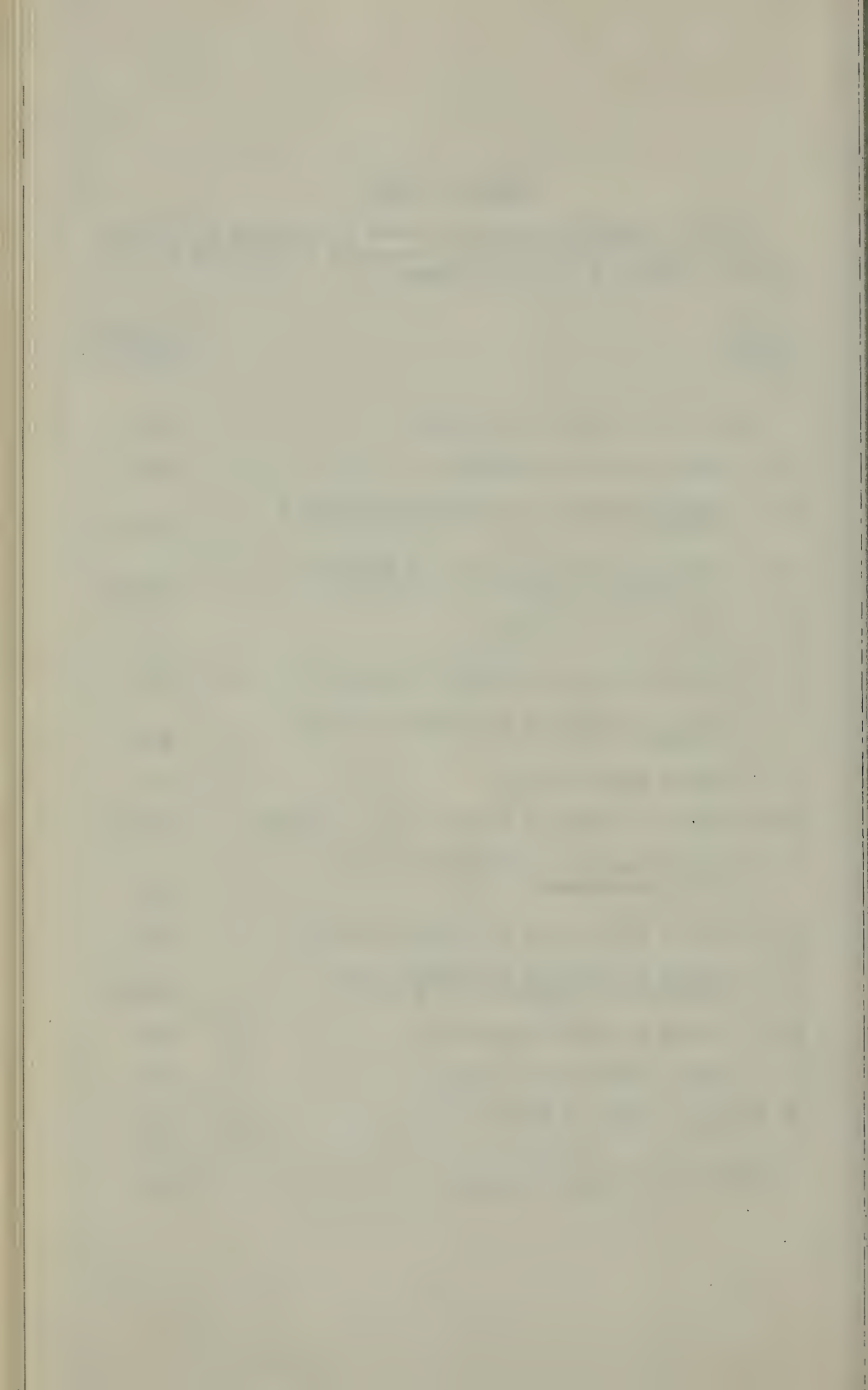


TABLE 1-A.—SUMMARY OF NATIONAL INSTITUTES OF HEALTH RESEARCH GRANTS AND AWARDS, BY SUPPORTING COMPONENT, FISCAL YEAR 1976 AND TRANSITION QUARTER

Supporting component	All research grants		Research projects, program projects, program centers, and general support		Research career program awards	
	Number	Dollars	Number	Dollars	Number	Dollars
Total National Institutes of Health.....	17,890	1,536,168,875	16,705	1,506,619,186	1,185	29,549,689
Institutes and Research Divisions.....	17,827	1,534,126,772	16,645	1,504,649,125	1,182	29,477,647
Division of Research Resources.....	771	142,436,849	770	142,411,849	1	25,000
National Cancer Institute.....	3,443	387,239,390	3,300	383,801,494	143	3,437,896
National Eye Institute.....	766	41,234,432	724	40,175,358	42	1,059,074
National Heart, Lung, and Blood Institute.....	2,612	251,516,959	2,398	245,548,401	214	5,968,558
National Institute of Allergy and Infectious Diseases.....	1,503	93,769,078	1,392	90,976,713	111	2,792,365
National Institute of Arthritis, Metabolism, and Digestive Diseases.....	2,454	162,720,531	2,269	158,121,719	185	4,598,812
National Institute of Child Health and Human Development.....	1,344	100,999,985	1,282	99,452,037	62	1,547,948
National Institute of Dental Research.....	433	30,188,860	400	29,407,620	33	781,240
National Institute of Environmental Health Sciences.....	239	26,829,248	229	26,619,992	10	209,256
National Institute of General Medical Sciences.....	2,525	167,757,033	2,247	160,960,348	278	6,796,685
National Institute of Neurological and Communicative Disorders and Stroke.....	1,588	117,242,975	1,489	115,045,941	99	2,197,034
National Institute on Aging.....	149	12,191,432	145	12,127,653	4	63,779
Total National Library of Medicine.....	63	2,042,103	60	1,970,061	3	72,042

NOTE: For information as to how this table was prepared, see Technical Note, p. ix.

TABLE I-B.--SUMMARY OF NATIONAL INSTITUTES OF HEALTH RESEARCH GRANTS AND AWARDS, BY SUPPORTING COMPONENT, FISCAL YEAR 1976

Supporting component	All research grants		Research projects, program projects, and program centers, and general support		Research career program awards	
	Number	Dollars	Number	Dollars	Number	Dollars
Total National Institutes of Health.....	15,344	1,275,825,988	14,318	1,250,171,274	1,026	25,654,714
Institutes and Research Divisions.....	15,288	1,274,064,837	14,264	1,248,469,112	1,024	25,595,725
Division of Research Resources.....	742	124,247,296	741	124,222,296	1	25,000
National Cancer Institute.....	3,041	322,118,718	2,905	318,854,729	136	3,263,989
National Eye Institute.....	675	35,265,206	639	34,358,799	36	906,407
National Heart, Lung, and Blood Institute.....	2,234	214,130,582	2,038	208,596,751	196	5,533,831
National Institute of Allergy and Infectious Diseases.....	1,219	75,367,986	1,126	72,986,490	93	2,381,496
National Institute of Arthritis, Metabolism, and Digestive Diseases.....	2,057	132,191,238	1,939	129,290,977	118	2,900,261
National Institute of Child Health and Human Development.....	1,190	85,911,994	1,130	84,415,394	60	1,496,600
National Institute of Dental Research.....	390	27,010,865	357	26,229,625	33	781,240
National Institute of Environmental Health Sciences.....	207	20,389,831	197	20,180,575	10	209,256
National Institute of General Medical Sciences.....	2,140	137,163,697	1,895	131,213,961	245	5,949,736
National Institute of Neurological and Communicative Disorders and Stroke.....	1,268	90,314,439	1,175	88,208,497	93	2,105,942
National Institute on Aging.....	125	9,952,985	122	9,911,018	3	41,967
Total National Library of Medicine.....	56	1,761,151	54	1,702,162	2	58,989

NOTE: For information as to how this table was prepared, see Technical Note, p. ix.

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter**

Principal investigator	Project title	Grant number	Dollars
GRAND TOTAL, 16,705 GRANTS.....			1,506,619,186
UNITED STATES,* 16,569 GRANTS.....			1,501,607,264
OTHER COUNTRIES, 136 GRANTS.....			5,011,922

## UNITED STATES

### ALABAMA

#### AUBURN

##### AUBURN UNIVERSITY ZIP CODE 36830

BERGER, ROBERT S.....	CHEMISTRY OF VECTOR PHEROMONES.....	5R01 AI10174-06	33,170
ORGANIZATION TOTAL	1	33,170	

#### BIRMINGHAM

##### EYE FOUNDATION HOSPITAL ZIP CODE 35233

PFISTER, ROSWELL R.....	SURFACE CORNEAL EPITHELIUM IN DISEASE STATES.....	7R01 EY01913-01	35,771
ORGANIZATION TOTAL	1	35,771	

##### SOUTHERN RESEARCH INSTITUTE ZIP CODE 35205

BROCKMAN, ROBERT W.....	BIOCHEMICAL STUDY OF COLON TUMOR ANTICANCER AGENTS.....	1R26 CA20070-01	77,749
GRISWOLD, DANIEL P, JR.....	BIOLOGY AND TREATMENT OF MURINE COLON CARCINOMA.....	5R26 CA17303-02	131,625
LLOYD, ROGER A.....	MEASURING VENTRICULAR VOLUME BY THERMODILUTION.....	3R01 HL16644-02S1	4,567
SANI, BRAHMA P.....	STUDIES ON RETINOIC ACID AND BINDING PROTEIN.....	1R01 CA18263-01A1	59,429
WILLIAMSON, ARTHUR E, JR.....	NONINVASIVE INTRAOCULAR PRESSURE MONITORING SYSTEM.....	5R01 EY01478-02	22,715
ORGANIZATION TOTAL	5	296,085	

##### UNIVERSITY OF ALABAMA IN BIRMINGHAM ZIP CODE 35294

ACTON, RONALD T.....	MEMBRANE SPECIFICITIES RELATED TO NEOPLASIA.....	5R01 CA15338-03	45,327
ACTON, RONALD T.....	BIOLOGICAL ROLE OF ALLOANTIGENS.....	1R01 CA18609-01	74,425
ALFORD, CHARLES A, JR.....	PATHOGENESIS OF INFECTION IN HUMAN MALDEVELOPMENT.....	5R01 HD01687-11	63,349
ANDREOLI, THOMAS E.....	TRANSPORT PROCESSES IN LIPID MEMBRANES AND RENAL TUBULES.....	5R01 AM14873-07	98,250
BAKER, HENRY J, JR.....	AN ANIMAL MODEL OF HUMAN GANGLIOSIDOSIS.....	2R01 NS10967-04	116,303
BAKER, HENRY J, JR.....	LABORATORY ANIMAL RESOURCE FOR BIOMEDICAL RESEARCH.....	5P40 RR00463-08	108,281
BENNETT, J CLAUDE.....	STUDIES ON GAMMA GLOBULIN STRUCTURE.....	2R01 AI09153-11	76,904
BENNETT, J CLAUDE.....	COORDINATED STUDIES IN RHEUMATIC DISEASES.....	5P01 AM03555-17	190,780
BISHOP, DAVID H.....	TRANSCRIPTION AND REPLICATION OF ANIMAL RNA VIRUSES.....	7R01 AI13402-01	82,602
BOSHELL, BURIS R.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	2R01 AM06744-14	20,205
BOSHELL, BURIS R.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM06744-15	11,583
BRASCHIO, DONN J.....	CANCER EDUCATION GRANT.....	5R25 CA17965-02	117,344
BUGG, CHARLES E.....	CRYSTAL STRUCTURES OF PURINE AND PYRIMIDINE ANALOGS.....	5R01 CA12159-05	41,440

\*Includes Puerto Rico.

NOTE 1.—For information as to how this table was prepared, see Technical Note, p. ix.

NOTE 2.—Grants are listed according to the State or country and city of the component part of the organization professionally responsible for the work (see Technical Note, p. ix). If an organization appears in more than one geographic location or requires a clarifying comment, appropriate annotations have been made in the Appendix.



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ALABAMA—Continued</b>			
BUTLER, WILLIAM T.	BIOCHEMISTRY OF PERIODONTAL TISSUES	5R01 DE03864-03	48,585
BUTTERWORTH, C E, JR	NUTRITIONAL SUPPORT & REHABILITATION FOR CANCER PATIENTS	1R18 CA17928-01A1	89,528
CAIN, STEPHEN M.	SURVIVAL VALUE OF PHYSIOLOGIC RESPONSES TO HYPOXIA	5R01 HL14693-05	54,437
CASSELL, GAIL H.	MURINE CRD: A MODEL OF CHRONIC PULMONARY INFLAMMATION	1R01 HL19741-01	79,938
CASSELL, GAIL H.	CONTROL OF RESPIRATORY MYCOPLASMOSIS	5R01 RR00959-02	54,465
CHEUNG, HERBERT C.	MUSCLE CONTRACTION/MACROMOLECULAR CONFORMATION	5R01 AM14589-06	32,210
CHEUNG, HERBERT C.	RAPID KINETIC STUDIES OF MYOSIN ADENOSINETRIPHOSPHATASE	5R01 AM17483-02	34,972
COMPANS, RICHARD W.	INFLUENZA VIRUS STRUCTURE, BIOSYNTHESIS AND ASSEMBLY	5R01 AI12680-02	65,913
COMPANS, RICHARD W.	RNA TUMOR VIRUS STRUCTURE AND BIOGENESIS	5R01 CA18611-02	58,571
COOPER, MAX D.	CELL DIFFERENTIATION STUDIES IN CANCER IMMUNOBIOLOGY	5P01 CA16673-02	349,412
CURTISS, ROY, III	EXTRACHROMOSOMAL ELEMENTS IN GRAM NEGATIVE BACTERIA	2R01 AI11456-04	66,085
DILLON, HUGH C, JR	STREPTOCOCCAL EPIDEMIOLOGY & IMMUNITY	5R01 AI12219-02	34,267
DILLON, HUGH C, JR	STREPTOCOCCAL EPIDEMIOLOGY & IMMUNITY	5R01 AI12219-03	44,518
DILLON, HUGH C, JR	DIPLOCOCCUS PNEUMONIAE: INFECTION AND IMMUNITY	1R01 HD09732-01	38,550
DURANT, JOHN R.	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	5P30 CA13148-05	1,534,156
DURANT, JOHN R.	CANCER CONTROL DEVELOPMENTAL GRANT	1R18 CA16409-02	540,544
DURANT, JOHN R.	SOUTHEASTERN CANCER STUDY GROUP	1R10 CA19657-01	422,584
FEAGIN, FREDERICK F.	EFFECTS OF CO2 AND H2CO3-HCO3 VS F. ON TOOTH ENAMEL	1R01 DE04379-01	48,150
FISCHER, THEODORE E.	RESEARCH OF POLYURETHANES FOR MAXILLOFACIAL USE	5R01 DE04138-02	63,024
FLETCHER, SAMUEL G.	PHYSIOLOGY OF SPEECH ARTICULATION PROCESSES & DISORDERS	5P50 NS11852-02	84,446
FULLMER, HAROLD M.	INSTITUTE OF DENTAL RESEARCH	3P50 DE02670-09S1	6,912
FULLMER, HAROLD M.	INSTITUTE OF DENTAL RESEARCH	5P50 DE02670-10	1,998,497
GOODALL, MARCUS C.	ION CHANNELS AND NEUROTRANSMITTERS	5R01 NS12279-05	34,661
HABEEB, AHMED F.	DETERMINATION OF THE ANTIGENIC STRUCTURE OF LYSOZYME	5R01 AI11974-02	21,204
HABEEB, AHMED F.	DETERMINATION OF THE ANTIGENIC STRUCTURE OF LYSOZYME	5R01 AI11974-03	25,809
HALSEY, JAMES H, JR	SUPPORT FOR CEREBROVASCULAR DISEASE RESEARCH CENTER	2P50 NS08802-07	417,658
HICKEY, TERRY L.	DEVELOPMENT OF THE RETINOGENICULATE SYSTEM	5R01 EY01338-02	24,378
HIRAMOTO, RAYMOND N.	THE CELLULAR IMMUNE RESPONSE AND MECHANISMS OF AGING	1R01 AG00234-01	46,765
HIRAMOTO, RAYMOND N.	THE CELLULAR IMMUNE RESPONSE AND MECHANISMS OF AGING	5R01 AG00234-02	50,726
HIRAMOTO, RAYMOND N.	A MATHEMATICAL MODEL FOR QUANTITATION OF CANCER CELLS	5R01 CA14125-03	41,597
HIRSCHOWITZ, BASIL I.	VAGAL CONTROL OF GASTRIC SECRETION	5R01 AM09260-11	65,523
HURST, ROBERT E.	HIGH RESOLUTION SEPARATIONS OF GLYCOSAMINOGLYCANS	5R01 AM17535-03	35,819
JACKSON, RAYMOND J.	ADENOSINE METABOLISM IN LYMPHOCYTES	5R01 CA17057-02	62,781
JAMES, THOMAS N.	MECHANISMS OF CARDIOVASCULAR DISEASE	5P01 HL11310-10	2,267,212
JOHNSON, BRIAN J.	COMPLEMENT FIXATION USING SYNTHETIC IGG1 FRAGMENTS	5R01 AI11970-02	18,173
JOHNSON, BRIAN J.	COMPLEMENT FIXATION USING SYNTHETIC IGG1 FRAGMENTS	5R01 AI11970-03	20,193
JOHNSTON, RICHARD B, JR	MECHANISMS OF RESISTANCE TO BACTERIAL INFECTION	5R01 AI10286-05	37,925
JOHNSTON, RICHARD B, JR	MECHANISMS OF RESISTANCE TO BACTERIAL INFECTION	5R01 AI10286-06	40,472
KENT, SIDNEY P.	PATTERN OF MOLECULES ON NORMAL AND NEOPLASTIC CELLS	5R01 CA15339-02	58,214
KIELY, DONALD E.	CHEMICAL STUDIES RELATED TO CYCLITOL BIOSYNTHESIS	5R01 GM19252-08	35,129
KOCHAKIAN, CHARLES D.	STEROID DEHYDROGENASES OF MAMMALIAN TISSUES	5R01 AM16729-02	38,562
LAMON, EDDIE W.	THE IMMUNE RESPONSE TO VIRALLY DETERMINED TUMOR ANTIGENS	5R01 CA17273-02	54,546
LAWTON, ALEXANDER R, III	DIFFERENTIATION OF B LYMPHOCYTES	2R01 AI11502-04	62,583
LEBOWITZ, JACOB	CIRCULAR DNA—IMPLICATIONS FOR CANCER & DRUG RESISTANCE	5R01 CA17077-02	64,465
LEVENE, RALPH Z.	PATHOGENESIS OF PRIMARY OPEN ANGLE GLAUCOMA	5R01 EY01536-02	119,424
LEVENE, RALPH Z.	PATHOGENESIS OF PRIMARY OPEN ANGLE GLAUCOMA	2R01 EY01536-03	104,622
MARTINEZ, MARIO G.	CLINICAL CANCER EDUCATION PROGRAM (DENTAL)	5R25 CA17934-02	29,136
MC CALLUM, CHARLES A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05300-15	95,011
MC GHEE, JERRY R.	STUDIES ON EFFECTIVE CARRIES IMMUNITY	5R01 DE04217-02	69,802
MC REYNOLDS, RICHARD A.	IMMUNOLOGICAL MECHANISMS IN PULMONARY FIBROSIS	1R23 HL19561-01	38,409
MESTECKY, JIRI F.	J CHAIN OF HUMAN PATHOLOGIC IMMUNOGLOBULINS	5R01 AI10854-05	66,648
MIHAS, ANASTASIOS	ONCOFETAL ANTIGEN(S) AND CARCINOMA OF THE PANCREAS	1R26 CA19196-01	32,785
NAVAR, LUIS G.	REGULATION OF RENAL HEMODYNAMICS	3R01 HL18426-01S1	4,731
NAVAR, LUIS G.	REGULATION OF RENAL HEMODYNAMICS	2R01 HL18426-02	77,799
NIEDERMEIER, WILLIAM	ROLE OF GLYCOPROTEINS IN MAMMARY TUMOR METASTASIS	1R01 CA19933-01	71,609
OMURA, GEORGE A.	SOUTHEASTERN CANCER STUDY GROUP	3R10 CA03013-19S1	151,060
OMURA, GEORGE A.	SOUTHEASTERN CANCER STUDY GROUP	5R10 CA03013-20	88,603
OYSTER, CLYDE W.	NEUROPHYSIOLOGY OF OPTOKINETIC NYSTAGMUS	5R01 EY00771-03S1	1,016
OYSTER, CLYDE W.	NEUROPHYSIOLOGY OF OPTOKINETIC NYSTAGMUS	5R01 EY00771-05	27,616
PIANTANIDA, THOMAS P.	TEMPORAL PROCESSING IN HUMAN COLOR VISION	1R01 EY01757-01	33,960

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ALABAMA—Continued</b>			
PITTMAN, JAMES A. JR.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00032-16	435,266
PITTMAN, JAMES A. JR.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05349-15	242,520
PRETLOW, THOMAS G. II	CHEMICAL CARCINOGENESIS IN VITRO	5R01 CA15089-03	57,444
PRETLOW, THOMAS G. II	CARCINOMA OF THE PROSTATE	5R26 CA16430-03	35,175
PRETLOW, THOMAS G. II	CARCINOMA OF THE COLON	5R26 CA16764-03	59,367
RACKLEY, CHARLES E.	STUDY OF ISCHEMIC HEART DISEASE	5P50 HL17667-02	1,363,580
REDDY, WILLIAM J.	MECHANISM OF ACTION OF INSULIN	5R01 AM15235-06	65,306
REHM, WARREN S.	FLUID AND ELECTROLYTE TRANSPORT IN THE CORNEA	5R01 EY00456-08	41,056
REYNOLDS, DAVID W.	HERPES VIRUS INFECTIONS IN HIGH RISK CANCER GROUPS	5R01 CA16424-02	61,874
SACHS, GEORGE	ENZYMIC BASIS OF ACID SECRETION	2R01 AM15878-04	49,738
SACHS, GEORGE	CHARACTERISTICS OF COLONIC CANCER MEMBRANES	5R26 CA16722-02	47,074
SACHS, GEORGE	TRANSPORT CHANGES IN NEOPLASIA	5R01 CA16877-02	36,478
SCHNEYER, LEON H.	STUDY OF SALIVARY GLAND STRUCTURE AND FUNCTION	5R01 DE02110-12	54,573
SCHROHENLOHER, RALPH E.	STRUCTURE AND FUNCTION OF IMMUNOGLOBULINS	5R01 AI10664-11	41,848
SCHUTZBACH, JOHN S.	THE BIOSYNTHESIS OF CELL ENVELOPE GLYCOPROTEINS	5R01 CA16777-02	46,058
SCHUTZBACH, JOHN S.	THE BIOSYNTHESIS OF CELL ENVELOPE GLYCOPROTEINS	5R01 CA16777-03	50,180
SEGREST, JERE P.	LIPID INTERACTIONS OF A CELL SURFACE GLYCOPROTEIN	1R01 GM23177-01	54,464
SHINGLETON, HUGH M.	GYNECOLOGIC ONCOLOGY GROUP	2R10 CA12484-06	84,963
SHOTA, TETSUO	THE BIOSYNTHESIS AND REGULATION OF PTERIDINE COENZYMES	5R01 CA16976-02	58,970
SPARKS, DAVID L.	EYE MOVEMENT CONTROL: THE ROLE OF BRAIN STEM NEURONS	3R01 EY01189-03S1	14,786
SPARKS, DAVID L.	EYE MOVEMENT CONTROL: THE ROLE OF BRAIN STEM NEURONS	2R01 EY01189-04	34,900
SPENNEY, JERRY G.	CONDUCTANCE PATHWAYS IN ACUTE GASTRODUODENAL INJURY	5R01 AM17315-03	30,257
TOMANA, MILAN	BIOCHEMISTRY OF CARBOHYDRATES IN CELL SURFACE COMPONENTS	1R01 CA19918-01	50,536
WEST, SEYMOUR S.	AUTOMATION OF ULTRAMICROANALYSES OF MACROMOLECULES	5P01 GM18252-06	236,295
WHITE, WILLIAM E. JR.	CARCINOGENESIS, MUTAGENESIS, AND PHOTO-LABELING OF DNA	5R01 CA17394-02	30,018
WOLCOTT, R. MICHAEL	CELL MEMBRANE ALTERATIONS ASSOCIATED WITH MALIGNANCY	5R01 CA16322-02	50,145
YIELDING, K. LEMONE	DNA REPAIR AND COLON CANCER	5R26 CA16376-02	55,453
YIELDING, K. LEMONE	DNA REPAIR MECHANISMS: REGULATION AND CANCER RELEVANCE	5R01 CA17629-02	63,120
ORGANIZATION TOTAL	101	14,784,627	
<b>HUNTSVILLE</b>			
<b>HUNTSVILLE HOSPITAL ZIP CODE 35801</b>			
HOWIE, VIRGIL M.	THE IMMUNOLOGY OF RECURRENT OTITIS MEDIA IN CHILDREN	5R01 AI10838-04	35,777
HOWIE, VIRGIL M.	THE IMMUNOLOGY OF RECURRENT OTITIS MEDIA IN CHILDREN	5R01 AI10838-05	38,062
ORGANIZATION TOTAL	2	73,839	
<b>OAKWOOD COLLEGE ZIP CODE 35806</b>			
COOPER, EMERSON A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S06 RR08048-05	36,628
ORGANIZATION TOTAL	1	36,628	
<b>MOBILE</b>			
<b>UNIVERSITY OF SOUTH ALABAMA ZIP CODE 36688</b>			
BAUGH, CHARLES M.	CANCER CHEMOTHERAPY: GAMMAGLUTAMATES OF METHOTREXATE	5R01 CA16048-03	26,147
BLACKBURN, WILL R.	LUNG GROWTH IN VIVO AND IN VITRO: HORMONAL INFLUENCES	5R01 HL17328-03	33,177
CHANG, FREDERIC C.	SYNTHESIS OF POTENTIAL BILE ACID METABOLITES	7R26 CA21656-01	52,776
CHANG, FREDERIC C.	CHEMICAL STUDY OF PLANTS OF PHARMACOLOGICAL INTEREST	7R01 CA21657-01	53,036
DONOVAN, ARTHUR J.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05774-02	38,019
FARNELL, DANIEL R.	SUPPORT FOR ANIMAL-CARE FACILITY	5P40 RR00834-03	14,661
FUNKHOUSER, JANE D.	LUNG DEVELOPMENT AND DIFFERENTIATION IN ORGAN CULTURE	1R01 HD10314-01	47,640
GORDON, ALLEN R.	REGULATION OF TENSION IN SMOOTH MUSCLE	5R01 AM18415-02	42,282
HUGGINS, CLYDE G.	BIOCHEMISTRY OF THE ANGIOTENSIN I CONVERTING ENZYME	5R01 HL15384-04	38,850
HUGGINS, CLYDE G.	CARDIOVASCULAR PHOSPHOINOSITIDE METABOLISM	5R01 HL15567-03	21,524
HUGGINS, CLYDE G.	CARDIOVASCULAR PHOSPHOINOSITIDE METABOLISM	5R01 HL15567-04	15,301
KREISBERG, ROBERT A.	GLUCONEOGENESIS IN MAN IN HEALTH AND DISEASE	5R01 AM17345-03	23,492
LAYCOCK, DAVID G.	GENE MAPPING BY A MOLECULAR APPROACH	5R01 GM21243-02	19,546
MORGAN, PAUL H.	ACTIVATION OF THE FIRST COMPONENT OF COMPLEMENT	5R01 AI11527-03	23,981
MORTILLARO, NICHOLAS A.	INTERACTIONS OF THE INTESTINAL STARLING FORCES	5R01 AM17616-03	28,024

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ALABAMA—Continued</b>			
MUSTAFA, SYED J.....	ADENOSINE, PROSTAGLANDINS IN RELATION TO CORONARY FLOW.....	1R01 HL19202-01	42,336
PETERSON, RAYMOND D.....	ROLE OF THE PITUITARY IN EXPERIMENTAL LEUKEMOGENESIS.....	5R01 CA17819-02	47,377
SORBER, WILLIAM A.....	LYSOSOMAL ENZYME RELEASE BY ALVEOLAR MACROPHAGES.....	1R23 HL19503-01	37,752
ORGANIZATION TOTAL	18 605,921		
<b>MONTGOMERY</b>			
ALABAMA STATE UNIVERSITY	ZIP CODE 36104		
OLIVIERE, JAMES.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08098-04	27,585
ORGANIZATION TOTAL	1 27,585		
<b>NORMAL</b>			
ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY	ZIP CODE 35762		
JENKINS, ALICE C.....	SUPPORT FOR SOMATOTROPHIN AND PESTICIDE STUDY.....	1S06 RR08149-01	154,522
ORGANIZATION TOTAL	1 154,522		
<b>TALLADEGA</b>			
TALLADEGA COLLEGE	ZIP CODE 35160		
BACON, ARTHUR L.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08105-03	68,083
ORGANIZATION TOTAL	1 68,083		
<b>TUSCALOOSA</b>			
STILLMAN COLLEGE	ZIP CODE 35401		
SINGH, JARNAIL.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08021-04	51,775
ORGANIZATION TOTAL	1 51,775		
<b>TUSKEGEE INSTITUTE</b>			
TUSKEGEE INSTITUTE	ZIP CODE 36088		
BOWIE, WALTER C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05572-09	33,134
HENDERSON, JAMES H.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08091-04	230,916
JONES, WILLIAM O.....	DEVELOPMENT OF A CENTRALIZED ANIMAL RESOURCE FACILITY.....	5P40 RR00878-03	23,997
SETTLER, SHERIDAN H, JR.....	CULTURE OF SUSPECTED VIRUSES IN HUMAN OCULAR DISEASE.....	5R01 EY01173-02	35,131
ORGANIZATION TOTAL	4 323,178		
<b>UNIVERSITY</b>			
UNIVERSITY OF ALABAMA	ZIP CODE 35486		
ABRAMOVITCH, RUDOLPH A.....	PYRROLE DERIVATIVES AS ANTICANCER AGENTS.....	5R01 CA15628-03	37,241
ABRAMOVITCH, RUDOLPH A.....	BIOLOGICALLY ACTIVE HETEROCYCLIC N-OXIDES.....	5R01 GM16626-06	45,773
BRAMLETT, CHRISTOPHER L.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07151-02	18,557
ELLIS, NORMAN R.....	SCIENTIFIC CONFERENCE ON MENTAL RETARDATION.....	5R13 HD09211-02	6,997
HARDMAN, JOHN K.....	STUDY OF PROPERTIES OF TRYPTOPHAN SYNTHETASES.....	2R01 GM20547-04	30,398
MEGO, JOHN L.....	PROTEIN CATABOLISM IN SUBCELLULAR ORGANELLES.....	5R01 GM21829-02	34,045
ORGANIZATION TOTAL	6 173,011		
STATE TOTAL	143 16,664,195		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ALASKA</b>			
<b>COLLEGE</b>			
<b>UNIVERSITY OF ALASKA SYSTEM—UNIVERSITY OF ALASKA      ZIP CODE 99701</b>			
CUTLER, HOWARD A.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07001-10	37,066
DIETERICH, ROBERT A.....	RESOURCE FACILITY FOR WILD RODENTS.....	3P06 RR00518-06S1	114,592
ELSNER, ROBERT W.....	CIRCULATORY REACTIONS TO ASPHYXIA.....	5R01 HL16020-02	95,901
ELSNER, ROBERT W.....	CIRCULATORY REACTIONS TO ASPHYXIA.....	5R01 HL16020-03	78,107
FEIST, DALE D.....	NEURO-ENDOCRINAL ADAPTATIONS TO COLD AND SEASON.....	5R01 ES00689-02	33,343
WEST, GEORGE C.....	RESEARCH IN ZOO PHYSIOLOGY IN ALASKA.....	2P01 GM10402-13A1	338,710
ORGANIZATION TOTAL	6      697,719		
STATE TOTAL	6      697,719		
<b>ARIZONA</b>			
<b>PHOENIX</b>			
<b>ST. JOSEPH'S HOSPITAL AND MEDICAL CENTER      ZIP CODE 85013</b>			
EIDELBERG, EDUARDO.....	COLLABORATIVE STUDY ON TREATMENT OF SPINAL CORD INJURY.....	1R13 NS13228-01	8,800
SCHWARTZ, ARTHUR S.....	NEUROLOGICAL MECHANISMS OF SENSORY DEFICIT.....	2R01 NS05715-10	19,530
ORGANIZATION TOTAL	2      28,330		
<b>TEMPE</b>			
<b>ARIZONA STATE UNIVERSITY      ZIP CODE 85201</b>			
BIEBER, ALLAN L.....	STRUCTURE AND ACTIVITY OF GUANINE AMINOHYDROLASES.....	1R01 GM22388-01	22,860
BIRGE, EDWARD A.....	ANALYSIS OF RECOMBINATIONLESS MUTANTS OF BACTERIA.....	5R01 GM22112-02	25,723
GOLDSTEIN, ELLIOTT S.....	CONTROL OF MRNA USAGE DURING DROSOPHILA DEVELOPMENT.....	1R01 HD09157-01A2	37,880
GREENWOOD, MICHAEL J.....	MIGRATION, REGIONAL GROWTH AND PUBLIC POLICY: MEXICO.....	2R01 HD08567-02	37,280
LESHOWITZ, BARRY H.....	FREQUENCY SELECTIVITY IN NORMAL AND IMPAIRED EARS.....	2R01 NS09874-03	81,814
MC GAUGHEY, ROBERT W.....	ANALYSIS OF MAMMALIAN OVARIAN FOLLICULAR FLUIDS.....	5R01 HD06532-03	39,550
MUNK, MORTON E.....	COMPUTER-AIDED STRUCTURE ELUCIDATION.....	5R01 GM21703-02	65,323
PATTERSON, ROBERT A.....	EFFECTS OF SCORPION VENOM ON VASCULAR CHEMORECEPTORS.....	5R01 GM22047-02	17,202
PETIT, GEORGE R.....	NATURALLY OCCURRING ANTINEOPLASTIC AGENTS.....	5R01 CA16049-03	70,877
WOOLF, CHARLES M.....	BEHAVIOR GENETICS—PHOTOTAXIS-GEOTAXIS IN DROSOPHILA.....	5R01 GM19583-03	25,905
WOOLF, CHARLES M.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07112-09	23,070
ORGANIZATION TOTAL	11      447,484		
<b>TUCSON</b>			
<b>UNIVERSITY OF ARIZONA      ZIP CODE 85721</b>			
APOSHIAN, H VASKEN.....	USE OF PSEUDOVIRIONS IN DEVELOPING GENE DELIVERY SYSTEMS.....	7R01 GM22975-01	103,436
BARRETT, HARRISON H.....	CODED-APERTURE SYSTEMS FOR NUCLEAR DOSE REDUCTION.....	1R01 CA17731-01	69,055
BARTELS, PETER H.....	MEASUREMENT OF CELL RESPONSE TO ANTICANCER DRUGS.....	5R01 CA14223-03	62,859
BATES, ROBERT B.....	STRUCTURES OF COMPOUNDS OF BIOLOGICAL INTEREST.....	3R01 CA10944-07S1	20,266
BENSON, BRYANT.....	STRUCTURE AND ACTION OF PINEAL ANTIGONADOTROPIN.....	5R01 HD08759-02	46,572
BENSON, BRYANT.....	STRUCTURE AND ACTION OF PINEAL ANTIGONADOTROPIN.....	5R01 HD08759-03	43,293
BOONE, MAX L.....	HEAT AND RADIATION IN CANCER THERAPY AND DIAGNOSIS.....	5P01 CA17343-02	277,160
BOURQUE, DON P.....	BIOCHEMISTRY AND GENETICS OF CHLOROPLAST RIBOSOMES.....	5R01 GM21242-02	33,733
BRENDEL, KLAUS.....	STUDY OF DRUGS IN CARBOHYDRATE-LIPID INTERRELATION.....	5R01 AM14977-07	47,675
BRESSLER, RUBIN.....	EFFECT OF PHARMACOLOGIC AGENTS ON METABOLISM OF HEART.....	3R01 HL13636-05S1	26,679
BRESSLER, RUBIN.....	EFFECT OF PHARMACOLOGIC AGENTS ON METABOLISM OF HEART.....	2R01 HL13636-06	35,691
BROWN, BURNELL R, JR.....	ANESTHETIC-DRUG INTERACTIONS WITH THE LIVER.....	2R01 AM16715-05	52,560
BURROWS, BENJAMIN.....	CENTER FOR STUDY OF OBSTRUCTIVE LUNG DISEASES.....	3P50 HL14136-05S2	251,547
CARTER, DEAN E.....	APPROACHES TO TREATMENTS OF METHYL MERCURY TOXICITY.....	5R01 ES01005-02	34,813
CHVAPIL, MILOS.....	LYSYL OXIDASE IN HEALTH AND DISEASE.....	1R01 AM18706-01	102,507
CHVAPIL, MILOS.....	LIPID PEROXIDATION AND METALS IN VESSEL WALL INJURY.....	5R01 HL16385-02	53,013



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ARIZONA—Continued</b>			
CHVAPIL, MILOS	PATHOGENESIS AND PHARMACOLOGY OF LUNG FIBROSIS	1R01 HL19633-01	96,438
CROSS, HAROLD E	ABNORMALITY IN COLLAGEN PACKING: CROSS-LINKING	1R01 EY01633-01	43,853
CUSANOVICH, MICHAEL A	REGENERATION OF THE VISUAL PIGMENT RHODOPSIN	5R01 EY01113-02	19,755
CUSANOVICH, MICHAEL A	MECHANISM OF ACTION OF VERTEBRATE CYTOCHROME C	5R01 GM21277-03	19,304
DANTZLER, WILLIAM H	REGULATION OF INDIVIDUAL NEPHRON FILTRATION RATES	2R01 AM16294-04	36,855
ENEMARK, JOHN H	STRUCTURAL MODELS FOR MOLYBDO-ENZYMES	5R01 ES00966-02	32,123
FELTHAM, ROBERT D	CONTROL OF REACTIONS OF COORDINATED LIGANDS	5R01 HL16205-03	69,760
FENTON, LAWRENCE J	GROUP B STREPTOCOCCAL INFECTIONS IN THE NEWBORN	1R01 HD09588-01	59,160
FISHER, H KENNETH	DELIVERY OF PULMONARY SURFACTANT TO ALVEOLAR SURFACES	5R01 HL17775-02	22,332
FORSTER, LESLIE S	ELECTRONIC PROPERTIES OF COMPLEX MOLECULES	2R01 GM19921-10A1	40,146
GERNER, EUGENE W	RADIATION INDUCED DEFECTS IN CELL KINETICS	5R01 CA18273-02	23,435
GLASS, RICHARD S	A MECHANISM FOR OXIDATIVE PHOSPHORYLATION	5R01 HL15104-05	35,333
GOLDBERG, STANLEY J	EVALUATION OF LUNG HYDRAULIC IMPEDANCE IN CHILDREN	5R01 HD05936-05	23,291
GOLL, DARREL E	STUDIES ON MYOFIBRILLAR PROTEINS	1R01 AM19864-01	64,740
GORE, ROBERT W	PHYSICAL & MECHANICAL PARAMETERS IN THE MICROCIRCULATION	5R01 HL13437-06	36,189
GORE, ROBERT W	PHYSICAL & MECHANICAL PARAMETERS IN THE MICROCIRCULATION	5R01 HL13437-07	33,846
GRIMES, WILLIAM J	CELL SURFACES AND CELLS TRANSFORMED BY ONCOGENIC VIRUSES	5R01 CA12753-05	32,330
GRIMES, WILLIAM J	CELL SURFACES AND CELLS TRANSFORMED BY ONCOGENIC VIRUSES	5R01 CA12753-06	34,843
HADLEY, MAC E	HYPOTHALAMIC REGULATION OF PARS INTERMEDIA FUNCTION	2R01 AM16282-04	54,762
HALL, H K, JR	SYNTHETIC ANALOGS OF POLYSACCHARIDES	5R01 GM18595-05	22,862
HAUSSLER, MARK R	FUNCTION OF VITAMIN D METABOLITES AND BONE DISEASE	5R01 AM15781-05	44,576
HEDGE, GEORGE A	NEUROENDOCRINE REGULATION OF ACTH AND TSH SECRETION	5R01 AM13794-06	49,141
HIXON, THOMAS J	SPEECH BREATHING MECHANICS	7R01 NS13519-01	20,661
HRUBY, VICTOR J	SYNTHESIS AND RECEPTOR STUDIES OF HORMONE ANALOGS	5R01 AM15504-03	28,404
HRUBY, VICTOR J	PEPTIDE HORMONE STRUCTURE AND FUNCTION	5R01 AM17420-03	26,055
HUXTABLE, RYAN J	BIOCHEMISTRY AND REGULATION OF TAURINE IN THE HEART	1R01 HL19394-01	58,298
JETER, WAYBURN S	CHARACTERISTICS OF TRANSFER FACTOR OF GUINEA PIG	5R01 AI11007-03	42,805
JOHNSON, PAUL C	REGULATION OF BLOOD FLOW IN THE MICROCIRCULATION	5R01 HL15390-10	67,073
JOHNSON, PAUL C	REGULATION AND EXCHANGE IN THE MICROCIRCULATION	5P01 HL17421-02	170,172
JOHNSON, PAUL C	REGULATION AND EXCHANGE IN THE MICROCIRCULATION	5P01 HL17421-03	145,059
JONES, STEPHEN E	SOUTHWEST ONCOLOGY GROUP	5R10 CA13612-03	100,804
JONES, STEPHEN E	NONHODGKIN'S LYMPHOMAS NATIONAL SYMPOSIUM	1R13 CA19892-01	77,700
KASSANDER, A RICHARD, JR	BIOMEDICAL SCIENCES SUPPORT GRANT	5S07 RR07002-11	70,822
KIM, HYUN D	MEMBRANE-LIMITED METABOLISM IN MAMMALIAN RED CELLS	5R01 AM17723-02	23,291
LINDELL, THOMAS J	ROLE OF PHOSPHORYLATION IN EUKARYOTIC TRANSCRIPTION	1R01 GM22897-01	69,170
LUCAS, DAVID O	INTERFERON PRODUCTION BY LEUKOCYTES	5R01 AI11687-03	25,021
MAGUN, BRUCE E	NUCLEAR PROTEIN CHANGES IN TRANSFORMATION	7R01 CA20913-01	34,657
MATHEWS, CHRISTOPHER K	ENZYMOLGY OF NORMAL AND VIRUS-INFECTED BACTERIA	5R01 AI08230-09	55,261
MATHEWS, CHRISTOPHER K	ENZYMOLGY OF NORMAL AND VIRUS-INFECTED BACTERIA	5R01 AI08230-10	56,399
MEEZAN, ELIAS	GLYCOPROTEIN STRUCTURE AND METABOLISM IN DIABETES	5R01 AM15394-06	50,042
MENDELSON, NEIL H	CONTROL OF GROWTH AND DIVISION	5R01 GM18735-05	47,995
MENDELSON, NEIL H	CONTROL OF GROWTH AND DIVISION	5R01 GM18735-06	49,206
MORKIN, EUGENE	CELLULAR MECHANISMS IN CARDIAC HYPERTROPHY	5R01 HL17971-02	50,546
MORROW, GRANT, III	METABOLIC STUDIES IN METHYLMALONIC ACIDEMIA	5R01 HD06575-04	49,963
OLSON, GEORGE B	COMPUTER ANALYSIS OF LYMPHOCYTES FROM LEUKEMIC MICE	5R01 CA15641-02	53,201
OLSON, MERLE S	INTEGRATED REGULATION OF MYOCARDIAL ENERGY METABOLISM	5R01 HL16111-03	45,988
PEACOCK, ERLE E, JR	BIOLOGICAL CONTROL OF SCAR TISSUE	5R01 AM14047-08	145,717
PEACOCK, ERLE E, JR	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00714-04	115,025
REMER, WILLIAM A	AMINOGLYCOSIDE ANTIBIOTICS WITH AZIRIDINE RINGS	7R01 AI13998-01	32,050
REMER, WILLIAM A	ANTITUMOR AGENTS. SYNTHESIS OF MITOMYCIN ANALOGS	7R01 CA21430-01	33,857
RUPLEY, JOHN A	STUDIES ON HEMOPROTEINS, LYSOZYME AND INSULIN	5R01 GM09410-14	69,307
RUPLEY, JOHN A	STUDIES ON DEHYDROGENASES	1R01 GM22373-01	36,975
RUSSELL, DIANE H	POLYAMINE METABOLISM IN CANCER AND CANCER CHEMOTHERAPY	2R01 CA14783-04	94,172
SALEMME, FRANCIS R	CYTOCHROME STRUCTURE AND INTERACTION	5R01 GM21534-03	34,667
SALMON, SYDNEY E	SOUTHWEST ONCOLOGY GROUP	3R10 CA13612-02S1	25,000
SALMON, SYDNEY E	KINETICS OF MONOCLONAL PLASMA CELL NEOPLASIA OF MAN	5R01 CA14102-05	48,785
SALMON, SYDNEY E	MEDICAL ONCOLOGY PROGRAM PROJECT	5P01 CA17094-02	895,026
SHELTON, RALPH L	PREDICTING ARTICULATION FROM CINEFLUOROGRAPHIC MEASURES	5R01 DE03350-06	65,012
STRUNK, ROBERT C	FUNCTION & SPECIFICITY OF TERMINAL COMPLEMENT ENZYMES	1R01 AI12970-01	24,147
STUART, DOUGLAS G	NEURAL ASPECTS OF POSTURE AND LOCOMOTION	5R01 NS07888-09	59,858

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ARIZONA—Continued</b>			
STUART, DOUGLAS G.....	NEURAL ASPECTS OF POSTURE AND LOCOMOTION.....	5R01 NS07888-10	59,671
TOLLIN, GORDON.....	FLAVIN-PROTEIN INTERACTIONS IN FLAVOENZYME CATALYSIS.....	5R01 AM15057-06	43,256
VANSELOW, NEAL A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05675-08	172,808
WELLS, MICHAEL A.....	LIPIDS AND PROTEINS IN COAGULATION AND MYELINATION.....	5R01 HL11552-09	67,805
WELLS, MICHAEL A.....	LIPIDS AND PROTEINS IN COAGULATION AND MYELINATION.....	5R01 HL11552-10	54,854
WETZEL, MARY C.....	INTERLIMB ASPECTS OF THE NEURAL CONTROL OF LOCOMOTION.....	5R01 NS11491-03	47,213
WITTE, CHARLES L.....	LYMPH—AN INDICATOR OF SPLANCHNIC TISSUE RESPIRATION.....	5R01 HL13341-06	50,796
WITTE, MARLYS H.....	ISCHEMIC THERAPY IN EXPERIMENTAL HYPERSPLENISM.....	1R01 HL18997-01	34,550
ZUKOSKI, CHARLES F.....	CONTROL OF TISSUE REJECTION BY ZINC.....	2R01 AM16489-04	51,515
ORGANIZATION TOTAL	85	5,836,592	
STATE TOTAL	98	6,312,406	
<b>ARKANSAS</b>			
<b>FAYETTEVILLE</b>			
<b>UNIVERSITY OF ARKANSAS ZIP CODE 72701</b>			
MILLET, FRANCIS S.....	NMR STUDIES OF MEMBRANE BOUND PROTEINS.....	2R01 GM20488-04	64,648
ORGANIZATION TOTAL	1	64,648	
<b>LITTLE ROCK</b>			
<b>UNIVERSITY OF ARKANSAS MEDICAL SCIENCES CAMPUS ZIP CODE 72201</b>			
BARRON, ALMEN L.....	CHLAMYDIAL GENITAL INFECTION: AN ANIMAL MODEL SYSTEM.....	5R01 AI13069-02	23,333
BERRY, DAISILEE H.....	SOUTHWEST ONCOLOGY GROUP—PEDIATRIC DIVISION.....	5R10 CA15995-03	38,198
BOND, GARY C.....	ARTERIAL BARORECEPTORS AND RENAL FUNCTION.....	5R01 HL16303-03	40,732
BRUCE, THOMAS.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05350-15	71,389
CAVE, MAC D.....	MODES OF DNA AMPLIFICATION EXPRESSED BY OOCYTES.....	5R01 GM21446-03	21,228
CHRIST, DARYL D.....	EFFECTS OF GENERAL ANESTHETICS ON SYMPATHETIC GANGLIA.....	5R01 NS10393-05	34,674
DYKMAN, ROSCOE A.....	STUDY OF CHILDREN WITH MINIMAL BRAIN DYSFUNCTION.....	5R01 HD09119-02	33,022
ELDERS, MINNIE J.....	THE METABOLIC ACTIVITY OF THYMIC HORMONE.....	5R01 AM15901-05	44,566
ELDERS, MINNIE J.....	GROWTH HORMONE AND SULFATION FACTOR IN ACUTE LEUKEMIA.....	2R01 CA13907-04	33,949
ELDERS, MINNIE J.....	GROWTH HORMONE AND SULFATION FACTOR IN ACUTE LEUKEMIA.....	5R01 CA13907-05	37,791
FISER, ROBERT H, JR.....	STUDIES OF INSULIN RESISTANCE IN ADOLESCENT OBESITY.....	5R01 HD09944-02	48,632
GILMORE, SHIRLEY A.....	RADIATION-INDUCED CHANGES IN THE NEONATAL NERVOUS SYSTEM.....	5R01 NS04761-13	36,114
GILMORE, SHIRLEY A.....	EFFECT OF UNDERNUTRITION ON THE IMMATURE NERVOUS SYSTEM.....	5R01 NS09990-03	36,632
HANNA, CALVIN.....	BIOCHEMICAL STUDIES ON LENS CATARACT FORMATION.....	5R01 EY00239-15	25,850
HAUT, ARTHUR.....	SOUTHWEST ONCOLOGY GROUP STUDY.....	1R10 CA19980-01	80,743
HILLER, F CHARLES.....	THERAPEUTIC AEROSOLS: CHARACTERISTICS AND RETENTION.....	1R01 HL20024-01	84,783
KALDERON, ALBERT E.....	CANCER OF THE THYROID AND CYCLIC AMP.....	7R01 CA19413-01	28,571
MOSS, A J, JR.....	A SCREENING METHOD FOR MALIGNANCY.....	5R01 CA17587-02	24,238
NAGLE, WILLIAM A.....	HYPERTHERMIA AND RADIATION: X-RAYS VS FAST NEUTRONS.....	1R01 CA19018-01	83,846
REMME, RONALD S.....	INPUTS TO PONTINE RF PROJECTIONS TO THE MLF.....	1R01 EY01794-01	26,115
RHINELANDER, FREDERIC W.....	MICROCIRCULATION AND HISTOLOGY OF HEALING BONE.....	7R01 AM19157-01	59,719
RHINELANDER, FREDERIC W.....	MICROCIRCULATION AND HISTOLOGY OF HEALING BONE.....	5R01 AM19157-02	106,139
SCHEVING, LAWRENCE E.....	CHRONOBIOLOGICAL APPROACH TO CANCER CHEMOTHERAPY.....	2R01 CA14388-04	66,105
STRAUB, KARL D.....	THE EFFECTS OF INSULIN ON THE MEMBRANE NA-K ATP-ASE.....	5R01 AM17973-02	21,934
TRANUM, BILLY L.....	PROTECTION OF PLATELET PRECURSORS.....	5R01 CA17427-02	56,078
WADKINS, CHARLES L.....	CONTROL MECHANISMS OF BIOLOGICAL CALCIFICATION.....	5R01 AM11528-09	64,596
WINTER, CHARLES G.....	PURIFICATION OF ACTIVE FRAGMENTS OF THE SODIUM PUMP.....	5R01 AM16483-03	27,316
YORK, J LYNDA.....	FIBRIN METABOLISM IN THE ATHEROSCLEROTIC.....	1R01 HL18421-01	32,556
ORGANIZATION TOTAL	28	1,288,849	
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 72206</b>			
WAGH, PREMANAND V.....	CHEMISTRY AND BIOLOGY OF PORCINE INTIMAL LIPOLIPIN.....	1R01 HL20549-01	31,784
ORGANIZATION TOTAL	1	31,784	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ARKANSAS—Continued</b>			
STATE TOTAL	30	1,385,281	
<b>CALIFORNIA</b>			
<b>BAKERSFIELD</b>			
KERN COMMUNITY CANCER CENTER	ZIP CODE 93301		
LAHIRI, SUNIL R.	EXPLORATORY STUDIES IN CANCER RESEARCH	3P20 CA16037-01S1	17,376
ORGANIZATION TOTAL	1	17,376	
<b>BERKELEY</b>			
CALIFORNIA STATE HEALTH AND WELFARE AGENCY—DEPARTMENT OF HEALTH	ZIP CODE 94704		
DAS GUPTA, PRITHWIS	DEMOGRAPHIC PORTRAIT OF SPANISH-SURNAMED CALIFORNIANS	5R01 HD07598-03	47,747
LENNETTE, EDWIN H.	IMMUNOLOGY AND EPIDEMIOLOGY OF CERTAIN VIRAL DISEASES	5R01 AI01475-19	277,575
LENNETTE, EDWIN H.	ELECTRON MICROSCOPIC STUDIES OF SELECTED VIRAL AGENTS	5R01 AI08200-08	49,536
LENNETTE, EDWIN H.	ELECTRON MICROSCOPIC STUDIES OF SELECTED VIRAL AGENTS	5R01 AI08200-09	37,555
MC EWEN, WILLIAM J.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05549-14	59,143
ORGANIZATION TOTAL	5	471,556	
INSTITUTE FOR RESEARCH IN SOCIAL BEHAVIOR	ZIP CODE 94705		
MELLINGER, GLEN D.	MOTIVATIONAL CONFLICT & COUPLE FERTILITY DECISIONS	1R01 HD09246-01A1	157,832
MELLINGER, GLEN D.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05719-05	34,940
ORGANIZATION TOTAL	2	192,772	
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT BERKELEY	ZIP CODE 94720		
AMES, BRUCE N.	REGULATION OF GENE FUNCTION AND PROTEIN SYNTHESIS	5R01 GM19993-09	91,091
AMES, GIOVANNA F.	LIPIDS AND ACTIVE TRANSPORT OF AMINO ACIDS	5R01 AM12121-09	53,970
BALLOU, CLINTON E.	COMPLEX POLYSACCHARIDES IN MYCOBACTERIUM SPECIES	9R01 AI12522-21	119,414
BALLOU, CLINTON E.	COMPLEX POLYSACCHARIDES IN MYCOBACTERIUM SPECIES	5R01 AI12522-22	114,894
BARKER, HORACE A.	INTERMEDIARY METABOLISM OF BACTERIA	5R01 AI00563-29	76,715
BARTLETT, PAUL A.	SYNTHESIS OF MACROCYCLIC NATURAL PRODUCTS	5R01 CA16616-02	42,786
BARTLETT, PAUL A.	SYNTHESIS OF MACROCYCLIC NATURAL PRODUCTS	5R01 CA16616-03	43,300
BARTLETT, PAUL A.	PHOSPHATE-DERIVED PHOTOAFFINITY LABELS	5R01 GM21612-02	42,122
BAUMRIND, DIANA	FAMILY SOCIALIZATION & DEVELOPMENT COMPETENCE	5R01 HD02228-10	70,376
BENTLEY, DAVID R.	FUNCTIONAL DEVELOPMENT OF IDENTIFIED NEURAL NETWORKS	5R01 NS09074-07	38,566
BORSOOK, HENRY	BIOLOGICAL SYNTHESIS OF PROTEIN	5R01 HL12236-08	47,565
BRANDES, STANLEY H.	THE CULTURAL DETERMINANTS OF NUPTIALITY	7R01 HD10952-01	9,491
BUCHANAN, BOB B.	REGULATORY MECHANISMS IN CARBOHYDRATE SYNTHESIS	5R01 GM20579-03	28,453
BUDINGER, THOMAS F.	POSITRON EMISSION CAMERA/TRANSVERSE SECTION TOMOGRAPHY	5R01 CA17566-02	85,745
BURKI, HENRY J.	IN VITRO STUDY OF MAMMALIAN CELLS DAMAGED BY TRITIUM	2R01 CA14310-04	63,861
BURLINGAME, A. L.	BIOMEDICAL, CLINICAL MASS SPECTROMETRY RESOURCE	5P41 RR00719-03	182,075
BURNSIDE, MARY B.	MICROTUBULE AND MICROFILAMENT STRUCTURE AND FUNCTION	7R01 GM23539-01	33,538
CALENDAR, RICHARD	MOLECULAR STUDIES ON PHAGE P2 AND ITS SATELLITE, P4	5R01 AI08722-08	57,996
CALVIN, MELVIN	STUDY OF MOLECULAR MECHANISM OF CARCINOGENESIS	5R01 CA14828-03	291,219
CANDE, WILLIAM Z.	FUNCTIONAL MODEL FOR MITOSIS IN CELL LINES	1R01 GM23238-01	54,227
CARPENTER, FREDERICK H.	STRUCTURE AND ACTIVITY OF INSULIN	5R01 AM00608-22	47,820
CARPENTER, FREDERICK H.	STRUCTURE AND ACTIVITY OF INSULIN	5R01 AM00608-23	48,734
CARPENTER, FREDERICK H.	MECHANISM OF LEUCINE AMINOPEPTIDASE	2R01 EY00813-06	57,729
CASIDA, JOHN E.	MODE OF ACTION AND METABOLISM OF ORGANIC TOXICANTS	5P01 ES00049-12	327,887
CASTRO, JOSEPH R.	TREATMENT OF CANCER WITH HELIUM AND HEAVY IONS	1P01 CA19138-01	645,392
CHAMBERLIN, MICHAEL J.	STUDIES OF THE ENZYMATIC SYNTHESIS OF NUCLEIC ACIDS	5R01 GM12010-13	74,153
CHANG, GEORGE W.	PROTEIN, TRYPSIN INHIBITORS AND PANCREATIC SECRETION	5R01 AM16259-03	39,755
CLARK, ALVIN J.	PHYSIOLOGY OF BACTERIAL CONJUGATION AND RECOMBINATION	5R01 AI05371-14	130,731
COHN, THEODORE E.	THE DETECTION OF VISUAL SIGNALS	5R23 EY01481-02	9,795
COLE, R. DAVID	HISTONE BIOCHEMISTRY AND THE INFLUENCE OF HORMONES	5R01 GM20338-09	67,024
CORNET, ISRAEL I.	DIRECT MEASUREMENT OF MASS TRANSPORT IN BRANCHED FLOWS	5R01 HL18298-02	40,502



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
CURTIS, STANLEY B.....	THE RESPONSE OF A RAT RHABDOMYOSARCOMA TO HEAVY IONS.....	5R01 CA17411-02	90,405
DANIELL, ELLEN.....	CELL TRANSFORMATION BY DEFECTIVE VIRUS PARTICLES.....	1R01 CA19058-01	59,440
DAUBEN, WILLIAM G.....	ULTRAVIOLET IRRADIATION OF NATURAL PRODUCTS.....	2R01 AM00709-23	63,968
DAUBEN, WILLIAM G.....	MODIFIED STEROID AND SESQUITERPENE ANTITUMOR AGENTS.....	5R01 CA04284-17	52,546
DE VALOIS, RUSSELL L.....	ELECTROPHYSIOLOGY OF COLOR VISION.....	5R01 EY00014-08	64,462
DE VALOIS, RUSSELL L.....	ELECTROPHYSIOLOGY OF COLOR VISION.....	5R01 EY00014-09	64,438
DEKKER, CHARLES A.....	HUMAN SERUM RIBONUCLEASES IN HEALTH AND DISEASE.....	1R01 CA19606-01	45,017
DUESBERG, PETER H.....	STRUCTURE AND REPLICATION OF ROUS SARCOMA AND INFLUENZA.....	5R01 CA11426-08	94,062
DUESBERG, PETER H.....	PHYSICAL, CHEMICAL, GENETIC ANALYSES OF TUMOR VIRUS RNAS.....	1R01 CA19558-01	130,031
EAKIN, RICHARD M.....	STUDIES IN FINE STRUCTURE.....	5R01 GM10292-14	78,359
EAKIN, RICHARD M.....	STUDIES IN FINE STRUCTURE.....	5R01 GM10292-15	85,321
ECHOLS, G HARRISON, JR.....	GENETIC & CHEMICAL STUDIES OF PHAGE LAMBDA DEVELOPMENT.....	5R01 GM17078-07	110,922
ECHOLS, G HARRISON, JR.....	GENETIC & CHEMICAL STUDIES OF PHAGE LAMBDA DEVELOPMENT.....	5R01 GM17078-08	113,778
EICHORN, DOROTHY H.....	INTERGENERATIONAL STUDIES OF DEVELOPMENT AND AGING, II.....	5P01 AG00365-07	200,197
ELBERG, SANFORD S.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07006-11	205,023
FOGEL, SEYMOUR.....	RECOMBINATION-DNA SYNTHESIS AND DEVELOPMENT IN YEAST.....	5R01 GM17317-07	54,198
FORTE, GERTRUDE M.....	FINE STRUCTURE AND METABOLISM OF SERUM LIPOPROTEINS.....	2R01 HL12710-07	146,329
FORTE, JOHN G.....	MECHANISM OF HO AND CL- TRANSPORT BY GASTRIC MUCOSA.....	5R01 AM10141-11	62,066
FORTE, JOHN G.....	MECHANISM OF HO AND CL- TRANSPORT BY GASTRIC MUCOSA.....	5R01 AM10141-12	66,288
FRAENKEL-CONRAT, BEATRICE.....	ALKYLATION OF POLYNUCLEOTIDES IN VITRO AND IN VIVO.....	5R01 CA12316-06	60,888
FRAENKEL-CONRAT, HEINZ L.....	THE MECHANISM OF THE NEUROTOXICITY OF VENOMS.....	5R01 ES00700-03	41,676
FREELING, MICHAEL.....	DEVELOPMENTAL GENETICS WITH AN INDUCIBLE GENE SYSTEM.....	5R01 GM21734-02	27,776
FREEMAN, RALPH D.....	PARTIAL VISUAL DEPRIVATION IN HUMANS AND VISUAL CORTEX.....	3R01 EY01175-03S1	13,067
FREEMAN, RALPH D.....	PARTIAL VISUAL DEPRIVATION IN HUMANS AND VISUAL CORTEX.....	2R01 EY01175-04	40,905
FRISTROM, JAMES W.....	GENIC/MOLECULAR BASIS OF IMAGINAL DISC MORPHOGENESIS.....	5R01 GM19937-04	51,979
FUERSTENAU, DOUGLAS W.....	INTERFACIAL PROPERTIES OF APATITE AND TOOTH MATERIALS.....	2R01 DE03708-04	50,512
GERHART, JOHN C.....	STUDIES OF CELLULAR REGULATORY MECHANISMS.....	2R01 GM19363-12	81,206
GERHART, JOHN C.....	STUDIES OF CELLULAR REGULATORY MECHANISMS.....	5R01 GM19363-13	86,693
GLAESER, ROBERT M.....	ELECTRON CRYSTALLOGRAPHY OF BIOLOGICAL STRUCTURES.....	5R01 GM19452-03	31,436
GLAESER, ROBERT M.....	BIOLOGICAL STRUCTURE ANALYSIS BY ELECTRON MICROSCOPY.....	1R01 GM23325-01	183,409
GLASER, DONALD A.....	FACILITY FOR AUTOMATED EXPERIMENTS IN CELL BIOLOGY.....	5R01 CA18686-02	53,948
GLASER, DONALD A.....	MICROBIAL AND SOMATIC CELL GENETICS AND PHYSIOLOGY.....	5R01 GM22021-02	127,388
GLASER, DONALD A.....	FACILITY FOR AUTOMATED EXPERIMENTS IN CELL BIOLOGY.....	5P41 RR00961-02	1,049,207
GOLDSMITH, WERNER.....	HEAD-NECK SYSTEM MOTION AND STRESS DUE TO IMPACT.....	5R01 AM18384-02	45,466
HAFTER, ERVIN R.....	PSYCHOPHYSIOLOGICAL STUDIES OF BINAURAL INTERACTION.....	5R01 NS07787-08	24,331
HAFTER, ERVIN R.....	PSYCHOPHYSIOLOGICAL STUDIES OF BINAURAL INTERACTION.....	5R01 NS07787-09	24,565
HARRIS, MORGAN.....	CYTOPLASMIC INHERITANCE IN NORMAL AND TUMOR CELLS.....	2R01 CA12130-06	86,833
HEARST, JOHN E.....	STRUCTURE OF DNA IN EUKARYOTIC CELLS AND VIRUSES.....	2R01 GM11180-13	126,840
HEATHCOCK, CLAYTON H.....	SYNTHESIS OF MACROCYCLIC LACTONES.....	5R01 AI11607-03	32,943
HEATHCOCK, CLAYTON H.....	SYNTHESIS OF ISOPRENOID ANTITUMOR COMPOUNDS.....	5R01 CA12617-05	57,141
HOSODA, JUNKO.....	ROLE OF LIGASE AND OTHER ENZYMES IN DNA REPLICATION.....	5R01 GM16841-05	68,999
HUBBELL, WAYNE L.....	MOLECULAR BASIS OF MEMBRANE EXCITATION.....	3R01 EY00729-04S1	13,000
HUBBELL, WAYNE L.....	MOLECULAR BASIS OF MEMBRANE EXCITATION.....	5R01 EY00729-05	59,014
JENSEN, FREDERICK R.....	DEMETALLATION, ALKYLATION AND BIOCHEMICAL PROCESSES.....	5R01 GM15373-09	55,385
JENSEN, RONALD.....	FLOW SYSTEMS-CELL PREPARATION, CYTOCHEMISTRY, PATHOLOGY.....	5R01 GM20901-02	116,478
KELLER, EDWARD L.....	STUDIES ON THE OCULOMOTOR SYSTEM OF ALERT PRIMATES.....	5R01 EY00955-05	35,042
KNIGHT, C ARTHUR.....	CHEMISTRY OF VIRUS MUTATION.....	5R01 AI00634-23	78,792
KOSHLAND, DANIEL E, JR.....	RESEARCH IN BIOCHEMISTRY.....	5R01 AM08845-12	60,934
KOSHLAND, DANIEL E, JR.....	RESEARCH IN BIOCHEMISTRY.....	5R01 AM08845-13	27,525
KOSHLAND, DANIEL E, JR.....	REGULATORY PROCESSES IN BIOLOGICAL SYSTEMS.....	5R01 AM09765-11	188,463
KOSHLAND, MARIAN E.....	MECHANISM OF ANTIBODY SPECIFICITY AND BIOSYNTHESIS.....	2R01 AI07079-11	120,108
LEIGHTON, TERRANCE J.....	REGULATION OF BACTERIAL CELL DEVELOPMENT.....	5R01 GM22053-02	30,866
LEIGHTON, TERRANCE J.....	TRANSLATIONAL CONTROL OF BACTERIAL CELL DEVELOPMENT.....	5R01 GM22180-02	10,736
LEPKOVSKY, SAMUEL.....	OBESITY, ATHEROSCLEROSIS AND ISCHEMIC HEART DISEASE.....	5R01 HL17937-02	39,522
LEWIS, EDWIN R.....	MORPHOLOGY AND PHYSIOLOGY OF THE INNER EAR.....	5R01 NS12359-02	41,511
LINDGREN, FRANK T.....	ANALYTICAL AND PHYSICAL CHEMISTRY OF SERUM LIPOPROTEINS.....	3R01 HL01882-21S1	38,905
LINDGREN, FRANK T.....	LIPOPROTEIN METHODOLOGY AND BIOMEDICAL APPLICATIONS.....	1P01 HL18574-01	559,500
LINN, STUART M.....	IN VITRO RESTRICTION AND MODIFICATION OF PHAGE DNA.....	5R01 GM19020-08	42,322
LOFGREN, EDWARD J.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	5P20 CA17801-02	254,094
LOHER, WERNER J.....	CIRCADIAN AND HORMONAL CONTROL OF SEXUAL BEHAVIOR.....	2R01 HD03619-08	43,775



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
MACEY, ROBERT I.....	CA AND MG IN MAINTENANCE OF MEMBRANE TRANSPORT.....	2R01 GM18819-04A1	50,504
MADIN, STEWART H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05441-15	59,251
MAESTRE, MARCOS F.....	PHYSICAL STRUCTURE—VIRUSES CHROMOSOMES AND CELL NUCLEI.....	5R01 AI08427-08	71,054
MALKIN, RICHARD.....	IRON-SULFUR PROTEINS AS CARRIERS IN ELECTRON TRANSFER.....	5R01 GM20571-03	18,132
MARGEN, SHELTON.....	NUTRITIONAL REQUIREMENTS IN THE AGING HUMAN.....	1R01 AG00164-01	36,348
MARGEN, SHELTON.....	NUTRITIONAL REQUIREMENTS IN THE AGING HUMAN.....	5R01 AG00164-02	37,803
MARGEN, SHELTON.....	STUDIES IN HUMAN NUTRITION.....	5P01 AM10202-10	276,136
MARGEN, SHELTON.....	STUDIES IN HUMAN NUTRITION.....	5P01 AM10202-11	271,347
MAYALL, BRIAN H.....	DIGITAL MICROPHOTOMETRY AND BIOMEDICAL IMAGE ANALYSIS.....	5R01 GM20291-04	180,409
MAZIA, DANIEL.....	TRANSFORMATION, DIVISION, AND MOTION OF CELLS.....	5P01 GM13882-11	244,200
MENDELSON, MORTIMER L.....	RADIOBIOLOGICAL TECHNIQUES IN HUMAN CANCER THERAPY.....	5R01 CA14533-04	218,784
MENDELSON, MORTIMER L.....	RADIOBIOLOGICAL TECHNIQUES IN HUMAN CANCER THERAPY.....	5R01 CA14533-05	194,956
MILMAN, GREGORY.....	ISOLATION OF ANIMAL CELLS CONTAINING SUPPRESSOR TRNAS.....	5R01 CA12308-05	85,178
MISHELL, ROBERT I.....	REGULATION OF CELLS OF THE IMMUNE SYSTEM.....	5R01 AI08817-08	81,508
MISHELL, ROBERT I.....	CLINICAL CANCER EDUCATION PROGRAM (DENTAL).....	5R01 CA17919-02	57,325
MOCK, WILLIAM L.....	MECHANISM OF CARBOXYPEPTIDASE A.....	1R01 GM22652-01	29,304
MODRICH, PAUL L.....	ENZYMATIC BASIS OF TYPE II RESTRICTION AND MODIFICATION.....	5R01 GM21610-02	45,992
NANDI, SATYABRATA.....	BIOLOGY OF MAMMARY NEOPLASIA.....	5P01 CA05388-17	846,869
NEILANDS, JOHN B.....	IRON METABOLISM OF MICROORGANISMS.....	2R01 AI04156-15	42,758
NEILANDS, JOHN B.....	CHELATES FOR COOLEY'S ANEMIA AND IRON STORAGE DISEASE.....	5R01 AM17146-03	48,536
NEYMAN, JERZY.....	STATISTICAL STUDIES OF PROBLEMS OF HEALTH AND BIOLOGY.....	9R01 ES01299-13	73,068
NEYMAN, JERZY.....	STATISTICAL STUDIES OF PROBLEMS OF HEALTH AND BIOLOGY.....	5R01 ES01299-14	76,350
NICHOLS, ALEXANDER V.....	STRUCTURE AND FUNCTION OF SERUM LIPOPROTEINS.....	5R01 HL10878-10	51,223
NIKAIDO, HIROSHI.....	BIOCHEMISTRY OF BACTERIAL CELL MEMBRANES.....	2R01 AI09644-07	95,623
O'KONSKI, CHESTER T.....	DYNAMICS OF NUCLEIC ACID MACROMOLECULES AND COMPLEXES.....	5R01 CA12540-05	60,532
O'KONSKI, CHESTER T.....	ELECTRO-OPTIC STUDIES OF ENZYMATICALLY MODIFIED DNA.....	1R01 GM22810-01	32,071
OSTWALD, ROSEMARIE.....	EFFECT OF DIETARY CHOLESTEROL IN MAMMALS.....	2R01 AM08480-13	81,865
PACKER, LESTER.....	NEUROLATHYRISM.....	5R01 NS11321-02	41,160
PAFFENBARGER, RALPH S, JR.....	FACTORS IN YOUTH PREDISPOSING TO CHRONIC DISEASES.....	9R01 AG00309-06A1	109,309
PAFFENBARGER, RALPH S, JR.....	FACTORS IN YOUTH PREDISPOSING TO CHRONIC DISEASES.....	5R01 AG00309-07	119,680
PALMOUR, ROBERTA M.....	GENETIC AND CHEMICAL STUDIES OF ENZYME VARIATIONS.....	5R01 AM16722-03	37,449
PENHOET, EDWARD E.....	CONTROL OF RNA SYNTHESIS IN EUKARYOTIC CELLS.....	1R01 CA20357-01	38,258
POLSE, KENNETH A.....	CONTACT LENS EFFECTS ON REFRACTIVE ERROR.....	1R01 EY01755-01	46,970
RABINOWITZ, JESSE C.....	PURINE AND PTERIDINE METABOLISM IN MICROORGANISMS.....	5R01 AM02109-19	91,041
RAJU, MUDUNDI R.....	THERAPEUTIC POTENTIAL OF HEAVY CHARGED PARTICLES.....	5R01 CA17290-02	67,413
RAYMOND, KENNETH N.....	COORDINATION ISOMERS IN BIOLOGICAL IRON TRANSPORT.....	2R01 AI11744-03	90,697
REEVES, WILLIAM C.....	ECOLOGY AND CONTROL OF ARBOVIRUSES.....	5R01 AI03028-17	262,345
REEVES, WILLIAM C.....	ECOLOGY AND CONTROL OF ARBOVIRUSES.....	5R01 AI03028-18	262,889
ROHMER, WILLIAM D, JR.....	ELABORATION AND MEMORY DEVELOPMENT IN ADOLESCENCE.....	5R01 HD03869-08	55,863
ROTH, JOHN R.....	AN ANALYSIS OF THE GENES INVOLVED IN TRNA PRODUCTION.....	5R01 GM18633-09	43,176
ROWELL, CHARLES H.....	MECHANISMS OF MODULATION OF VISUALLY INDUCED BEHAVIOR.....	5R01 NS09404-06	67,466
ROWELL, CHARLES H.....	MECHANISMS OF MODULATION OF VISUALLY INDUCED BEHAVIOR.....	5R01 NS09404-07	59,899
RUBIN, HARRY.....	PRIMARY EVENTS IN REGULATING CELL MULTIPLICATION.....	5R01 CA15744-03	150,968
SATIR, BIRGIT H.....	MEMBRANES PRIOR TO AND DURING FUSION IN SECRETION.....	5R01 GM21077-03	65,316
SATIR, PETER.....	STRUCTURE AND MOTION OF CILIA.....	5R01 HL13849-09	89,208
SCHACHMAN, HOWARD K.....	CANCER RESEARCH PROGRAM: VIRUSES, CONTROL MECHANISMS.....	2P01 CA14097-04	169,125
SCHACHMAN, HOWARD K.....	STRUCTURES AND INTERACTIONS OF BIOLOGICAL MACROMOLECULES.....	5R01 GM12159-13	100,904
SHORE, VIRGIE G.....	COMPOSITION AND STRUCTURE OF PLASMA LIPOPROTEINS.....	5R01 HL17463-02	81,243
SHORE, VIRGIE G.....	COMPOSITION AND STRUCTURE OF PLASMA LIPOPROTEINS.....	5R01 HL17463-03	154,965
SINGER, JEROME R.....	NEW BIOPHYSICAL STUDIES OF CERVICAL MUCUS.....	1R01 HD10316-01	69,412
SNELL, ESMOND E.....	NUTRITION AND METABOLISM OF MICROORGANISMS.....	5R01 AI01575-20	58,712
SNELL, ESMOND E.....	CATALYTIC FUNCTIONS AND METABOLISM OF VITAMIN B6.....	5R01 AM01448-20	46,039
STENT, GUNTHER S.....	BEHAVIOR AND DEVELOPMENT OF A SIMPLE NERVOUS SYSTEM.....	9R01 NS12818-23	66,223
STOKSTAD, E L.....	METABOLISM OF FOLIC ACID AND VITAMIN B12.....	5R01 AM08171-13	72,277
STREITWIESER, ANDREW, JR.....	CARBON ACIDITY.....	5R01 GM12855-12	78,288
SYLVESTER, EDWARD S.....	PROPAGATIVE-CIRCULATIVE VIRUS TRANSMISSION BY INSECTS.....	5R01 AI07255-10	7,583
TARTER, MICHAEL E.....	GRAPHICAL BIOMETRY.....	5R01 GM18987-02	36,308
THORNER, JEREMY W.....	CELL-CELL INTERACTIONS OF A SIMPLE EUKARYOTE.....	5R01 GM21841-02	43,365
TIMIRAS, PAOLA S.....	MEMBRANOGENESIS IN CRETINISM AND HYPERTHYROIDISM.....	5R01 HD07340-03	58,126
TIMIRAS, PAOLA S.....	BRAIN FUNCTION DURING ALTITUDE ACCLIMATIZATION.....	5R01 NS08989-14	60,354

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
TINOCO, IGNACIO, JR .....	STRUCTURE AND FUNCTION OF NUCLEIC ACIDS .....	5R01 GM10840-18	175,473
TOBIAS, CORNELIUS A. ....	PRETHERAPEUTIC USE OF ACCELERATED HEAVY IONS .....	5P01 CA15184-03	471,250
VAN DEN BERG, BARBARA J. ....	CHILD HEALTH AND DEVELOPMENT STUDIES .....	5P01 HD07256-05	188,033
VAN DEN BERG, BARBARA J. ....	CONSEQUENCES OF CHILDBEARING & CHILDSPPACING PATTERNS .....	1R01 HD10108-01	65,388
VAN DEN BERG, BARBARA J. ....	EPIDEMIOLOGICAL STUDIES, PRECURSORS OF HYPERTENSION .....	1R01 HL19859-01	110,029
VOLLHARDT, K PETER .....	ROUTES TO PHYSIOLOGICALLY ACTIVE COMPOUNDS .....	1R01 GM22479-01	27,892
WANG, JAMES C. ....	PHYSICOCHEMICAL STUDIES OF NUCLEIC ACIDS .....	2R01 GM14621-10	136,472
WANG, JAMES C. ....	PHYSICOCHEMICAL STUDIES OF NUCLEIC ACIDS .....	5R01 GM14621-11	109,985
WASHBURN, WILLIAM N .....	SQUALENE SYNTHETASE: MECHANISM AND INTERMEDIATES .....	5R01 GM21518-02	26,813
WERBLIN, FRANK S. ....	MEMBRANE MECHANISMS FOR CELL FUNCTION IN RETINA .....	5R01 EY00561-07	60,912
WESTHEIMER, GERALD .....	STUDY OF RETINAL AND CENTRAL VISUAL FUNCTION .....	5R01 EY00220-15	49,644
WESTHEIMER, GERALD .....	OCULOMOTOR CONTROL .....	5R01 EY00592-08	107,798
WILLIAMS, MARY A. ....	CHARACTERIZATION AND ISOLATION OF LECITHINS .....	5R01 AM10166-11	63,723
WILLIAMS, MARY A. ....	ESSENTIAL FATTY ACID INTAKE AND FATTY ACID SYNTHESIS .....	2R01 AM12024-09	60,554
WILSON, ALLAN C. ....	REGULATION AS A BASIS FOR ORGANISMAL DIFFERENCES .....	5R01 GM21509-02	49,767
WINKELSTEIN, WARREN, JR .....	RACE, ENVIRONMENT AND PROSTATIC CANCER .....	2R26 CA18581-02	56,037
WOFSY, LEON .....	RECEPTOR FUNCTION IN LYMPHOCYTE DIFFERENTIATION .....	5R01 AI06610-12	104,829
ZUCKER, IRVING .....	BEHAVIOR, HORMONES AND NEURAL BIOLOGICAL CLOCKS .....	3R01 HD02982-08S2	22,419
ZUCKER, IRVING .....	BEHAVIOR, HORMONES AND NEURAL BIOLOGICAL CLOCKS .....	2R01 HD02982-09	65,600
ZUCKER, IRVING .....	BEHAVIOR, HORMONES AND NEURAL BIOLOGICAL CLOCKS .....	5R01 HD02982-10	64,709
ZUSMAN, DAVID R .....	STUDY OF CELL DIVISION AND MORPHOGENESIS IN BACTERIA .....	2R01 GM20509-04	57,364
ORGANIZATION TOTAL	172	17,250,804	
<b>BEVERLY HILLS</b>			
<b>INSTITUTE FOR CANCER AND BLOOD RESEARCH</b>		<b>ZIP CODE 90211</b>	
CREECH, RICHARD H. ....	ONCOLOGY STUDIES-EASTERN COOPERATIVE ONCOLOGY GROUP .....	1R10 CA18281-01	36,750
CREECH, RICHARD H. ....	ONCOLOGY STUDIES-EASTERN COOPERATIVE ONCOLOGY GROUP .....	5R10 CA18281-02	78,853
ORGANIZATION TOTAL	2	115,603	
<b>BURBANK</b>			
<b>ST. JOSEPH MEDICAL CENTER</b>		<b>ZIP CODE 91505</b>	
LANCHANTIN, GERARD F. ....	CHEMISTRY OF HUMAN BLOOD COAGULATION .....	5R01 HL17690-03	43,101
LANCHANTIN, GERARD F. ....	SUBUNITS FORMED DURING HUMAN PROTHROMBIN ACTIVATION .....	5R01 HL17718-03	55,487
ORGANIZATION TOTAL	2	98,588	
<b>CLAREMONT</b>			
<b>CLAREMONT COLLEGES SYSTEM—CLAREMONT GRADUATE SCHOOL</b>		<b>ZIP CODE 91711</b>	
OSKAMP, STUART .....	PREDICTION OF PROBABILITIES IN CONTRACEPTIVE PLANNING .....	3R01 HD08074-02S1	5,069
OSKAMP, STUART .....	LONG-TERM STUDY OF SUCCESS IN CONTRACEPTIVE PLANNING .....	2R01 HD08074-03	67,326
ORGANIZATION TOTAL	2	72,395	
<b>CLAREMONT COLLEGES SYSTEM—CLAREMONT MEN'S COLLEGE</b>		<b>ZIP CODE 91711</b>	
ELLIOTT, WARD E. ....	AMERICAN LAW AND POPULATION CONTROL .....	2R01 HD09062-02	6,953
ORGANIZATION TOTAL	1	6,953	
<b>CLAREMONT COLLEGES SYSTEM—PITZER COLLEGE</b>		<b>ZIP CODE 91711</b>	
ATWELL, CONSTANCE W. ....	CONSEQUENCES OF VESTIBULAR SELF-STIMULATION IN INFANTS .....	1R01 HD09644-01	54,994
ORGANIZATION TOTAL	1	54,994	
<b>CLAREMONT COLLEGES SYSTEM—POMONA COLLEGE</b>		<b>ZIP CODE 91711</b>	
HANSCH, CORWIN H. ....	CORRELATION OF BIOLOGICAL ACTIVITY AND STRUCTURE .....	5R01 CA11110-16	107,943
LONG, GEORGE L. ....	SUBUNIT INTERACTIONS OF D-LACTATE DEHYDROGENASES .....	1R01 GM22868-01	34,534
ORGANIZATION TOTAL	2	142,477	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
<b>DAVIS</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT DAVIS      ZIP CODE 95616			
ABBOTT, URSULA K.	COMPARATIVE PESTICIDES EFFECTS ON SEVERAL AVIAN SPECIES	5R01 ES00907-02	16,811
ANDREWS, NEIL C.	COOPERATIVE STUDY OF ONCOLOGY	3R10 CA12274-05S1	13,939
BALCH, ALAN L.	METAL COMPLEXATION: DIAZENES, OXYGEN, IMIDAZOLE/FLAVINS	5R01 GM18357-07	28,310
BASKIN, RONALD J.	ULTRASTRUCTURE AND FUNCTION OF SARCOPLASMIC RETICULUM	5R01 HL12978-07	28,853
BEAMAN, BLAINE L.	MECHANISMS CONTROLLING NOCARDIAL PATHOGENESIS	5R01 AI13167-02	41,699
BENISEK, WILLIAM F.	STEROID BINDING SITES OF STEROID BINDING PROTEINS	5R01 AM14729-06	53,233
BENJAMINI, ELIEZER	STUDY OF IMMUNOLOGICAL CONTROL OF NEOPLASIAS	5R01 CA14839-03	78,040
BOYD, JAMES B.	POLYENE CHROMOSOMES—STRUCTURE AND FUNCTION	5R01 GM16298-08	37,634
BRADFORD, G. ERIC	GENETIC AND ENDOCRINE CONTROL OF PRENATAL LOSS	5R01 HD07252-03	68,973
BRADY, F. PAUL	NEUTRON-INDUCED REACTIONS IN TISSUE RESIDENT ELEMENTS	5R01 CA16261-02	148,362
BROOKS, GEORGE F.	HUMAN IMMUNE RESPONSES TO N. GONORRHOEAL INFECTIONS	1R01 AI13927-01	42,021
CHANG, ROBERT S.	TRANSFER FACTORS FROM HUMAN LYMPHOID CELL LINES	5R01 AI12198-02	27,570
CHAYKIN, STERLING	BIOLOGICAL OXIDATION REDUCTION MECHANISMS	5R01 GM19563-13	37,509
CLIFFORD, ANDREW J.	DIET AND PURINE METABOLISM IN GOAT	2R01 AM16726-04	44,515
CONN, ERIC E.	METABOLISM OF AROMATIC COMPOUNDS	5R01 GM05301-19	54,052
CRAMER, JAMES C.	FERTILITY AND FAMILY INCOME IN THE UNITED STATES	1R01 HD10233-01	7,761
CRIDDLE, RICHARD S.	THE CHEMICAL FORCES STABILIZING PROTEIN STRUCTURE	5R01 GM10017-14	59,756
CROSS, CARROLL E.	OXYGEN TOXICITY: BASIC AND CLINICAL STUDIES	5R01 HL17957-02	24,870
CURRY, DONALD L.	FACTORS CONTROLLING AND MODIFYING INSULIN SECRETION	5R01 AM17668-03	45,333
DAHMS, MICHAEL E.	BIOCHEMICAL ASPECTS OF GENE REGULATION	5R01 HD04899-05	51,427
DOI, ROY H.	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION	5R01 GM19673-04	39,936
DOI, ROY H.	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION	2R01 GM19673-05	50,674
DUNGWORTH, DONALD L.	PULMONARY EFFECTS OF ENVIRONMENTAL OXIDANT POLLUTANTS	2P01 ES00628-05A1	284,678
DUNGWORTH, DONALD L.	PULMONARY EFFECTS OF ENVIRONMENTAL OXIDANT POLLUTANTS	5P01 ES00628-06	315,165
ENDERS, ALLEN C.	MECHANISMS OF IMPLANTATION OF THE BLASTOCYST	7R01 HD10342-01	35,925
ENDERS, ALLEN C.	CYTOLOGY OF PLACENTAL FUNCTION	7R01 HD10344-01	28,840
ETZLER, MARILYNN E.	THE DEVELOPMENT OF CELL SURFACE COMPONENTS	5R01 GM17744-05	56,162
ETZLER, MARILYNN E.	STRUCTURE, DEVELOPMENT, AND MODIFICATIONS OF LECTINS	5R01 GM21882-02	48,658
FEENEY, ROBERT E.	INHIBITORS OF PROTEOLYTIC ENZYMES	5R01 AM13686-08	34,637
FEENEY, ROBERT E.	COMPARATIVE BIOCHEMISTRY OF PROTEINS	5R01 HD00122-12	44,364
FEENEY, ROBERT E.	TRANSFERRIN IRON BINDING AND TRANSPORT PROPERTIES	1R01 HL18619-01	35,045
FOWLER, WILLIAM M., JR.	PATHOPHYSIOLOGICAL BASES OF MUSCLE DISEASES	5P01 AM16716-03	407,349
FREEDLAND, RICHARD A.	INFLUENCE OF NUTRITION ON ENZYME SYSTEMS	5R01 AM04732-15	45,174
FREEDLAND, RICHARD A.	INFLUENCE OF NUTRITION ON ENZYME SYSTEMS	5R01 AM04732-16	45,349
GABOR, ANDREW J.	NEURONAL INTERACTION OF EPILEPTOGENIC FOCUS	5R01 NS10332-04	40,110
GARDNER, ERNEST D.	DEVELOPMENTAL NEUROBIOLOGY IN PRIMATES	5P01 HD08658-03	248,373
GEEL, STANLEY E.	BIOCHEMISTRY OF CNS DEVELOPMENT IN THYROID INSUFFICIENCY	5R01 NS10118-05	58,925
GERSHWIN, M. ERIC	THE PATHOGENESIS OF AUTOIMMUNITY IN NEW ZEALAND MICE	1R01 CA20816-01	55,938
GESCHWIND, IRVING I.	PITUITARY AND HYPOTHALAMIC PROTEINS AND PEPTIDES	5R01 HD00394-15	59,482
GESCHWIND, IRVING I.	PITUITARY AND HYPOTHALAMIC PROTEINS AND PEPTIDES	5R01 HD00394-16	64,324
GIRI, SHRI N.	EVALUATION OF ANTIFIBROTIC AGENTS IN PULMONARY FIBROSIS	1R01 HL19720-01	91,844
GREEN, MELVIN M.	GENETIC AND EVOLUTIONARY STUDIES WITH DROSOPHILA	5P01 GM22221-02	309,043
GRUENWELDEL, DIETER W.	TOXICOLOGY OF MERCURY AT CELLULAR-SUBCELLULAR LEVELS	5R01 ES01115-02	39,557
GULYASSY, PAUL F.	CONTROL AND ACTION OF CYCLIC AMP	3R01 AM16769-03S1	21,925
HALSTED, CHARLES H.	INTESTINAL ABSORPTION OF FOLATES IN HEALTH AND DISEASE	5R01 AM18330-02	64,808
HANSEN, ROBERT J.	INSULIN AND ENZYME TURNOVER IN ADIPOSE AND LIVER	5R01 AM15059-06	57,596
HANSEN, ROBERT J.	HORMONAL CONTROL OF MUSCLE PROTEIN DEGRADATION	5R01 AM16648-03	26,575
HEDRICK, JERRY L.	A MOLECULAR APPROACH TO FERTILIZATION	5R01 HD04906-07	79,679
HENDRICKX, ANDREW G.	EXPERIMENTAL STUDIES ON OROFACIAL DEVELOPMENT	5R01 DE03927-03	46,049
HERSHEY, JOHN W.	MECHANISM OF INITIATION OF PROTEIN BIOSYNTHESIS	5R01 GM22135-02	59,096
HOEPRICH, PAUL D.	MECHANISMS OF RESISTANCE TO ANTIMICROBICS	5R01 AI08955-08	35,854
HSIEH, DENNIS P.	TOXIC FUNGAL POLYKETIDES	5R01 ES00612-06	59,981
HSIEH, DENNIS P.	METABOLISM OF AFLATOXIN B1	5R01 ES00801-03	45,639
HURLEY, LUCILLE S.	TERATOLOGY CONFERENCE SYMPOSIA	1R13 DE04462-01	2,760
HURLEY, LUCILLE S.	NUTRITIONAL FACTORS IN MAMMALIAN DEVELOPMENT	5R01 HD01743-11	45,672
HURLEY, LUCILLE S.	NUTRITIONAL FACTORS IN MAMMALIAN DEVELOPMENT	5R01 HD01743-12	45,521



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
HURLEY, LUCILLE S.....	GENETIC AND NUTRITIONAL INTERACTIONS IN DEVELOPMENT.....	5R01 HD02355-10	63,318
HURLEY, LUCILLE S.....	GENETIC-NUTRITIONAL INTERACTIONS IN DEVELOPMENT.....	5R01 HD02355-11	63,853
INGRAHAM, JOHN L.....	PHYSIOLOGY OF BACTERIA AT LOW TEMPERATURE.....	2R01 AI05526-14	67,014
INGRAHAM, LLOYD L.....	THIAMINE FUNCTION IN NERVE TISSUE.....	5R01 GM08285-14	29,680
JACOBUS, WILLIAM E.....	CARDIAC CREATINE KINASE: PROPERTIES AND LOCALIZATION.....	5R01 HL16608-02	34,802
KADO, CLARENCE I.....	TUMOR-INDUCING SUBSTANCE OF AGROBACTERIUM TUMEFACIENS.....	2R01 CA11526-07	56,382
KADO, CLARENCE I.....	TUMOR-INDUCING SUBSTANCE OF AGROBACTERIUM TUMEFACIENS.....	5R01 CA11526-08	56,634
KIGER, JOHN A, JR.....	GENETICS OF CYCLIC NUCLEOTIDE METABOLISM.....	5R01 GM21137-03	29,078
KILGORE, WENDELL W.....	ENVIRONMENTAL IMPACT OF CHLORINATED HYDROCARBONS.....	5P01 ES00054-12	238,118
KILGORE, WENDELL W.....	STUDY OF PARATHION AS A PUBLIC HEALTH HAZARD.....	5P01 ES00735-03	260,992
KILLAM, KEITH F, JR.....	STUDIES OF PHOTOMYOCLONIC EPILEPSY.....	5R01 NS08935-06	129,873
KOZEK, WIESLAW J.....	IMMUNOBIOLOGY OF BRUGIA MALAYI.....	5R22 AI2095-03	28,177
KREBS, EDWIN G.....	THE REGULATORY ENZYMES OF GLYCOGEN METABOLISM.....	5R01 AM12842-08	150,702
KREBS, EDWIN G.....	THE REGULATORY ENZYMES OF GLYCOGEN METABOLISM.....	5R01 AM12842-09	85,976
KUSTU, SYDNEY G.....	GENETIC STUDIES OF GLUTAMINE SYNTHETASE IN BACTERIA.....	5R01 GM21307-03	20,455
LA MAR, GERD N.....	STRUCTURAL AND DYNAMIC STUDY OF MODEL HEME COMPLEXES.....	5R01 HL16087-03	41,174
LENN, NICHOLAS J.....	CYTOLOGICAL STUDIES OF BRAIN SYNAPSES.....	5R01 NS12265-02	55,247
LEWIS, JERRY P.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	3R10 CA14450-03S1	16,535
LORENZ, FREDERICK W.....	SPERM PHYSIOLOGY IN INDUCTION OF ABNORMAL DEVELOPMENT.....	5R01 HD08753-02	23,636
MACKENZIE, MALCOLM R.....	HUMAN MULTIPLE MYELOMA CELL ANTIGENS.....	5R01 CA17192-02	63,906
MAKI, AUGUST H.....	BINDING OF CH3HG0, AN ENVIRONMENTAL HAZARD, WITH DNA.....	1R01 ES01268-01	53,011
MAKI, AUGUST H.....	BINDING OF CH3HG0, AN ENVIRONMENTAL HAZARD, WITH DNA.....	5R01 ES01268-02	47,211
MARR, ALLEN G.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07007-11	141,705
MASON, DEAN T.....	MECHANISMS AND TREATMENT OF CARDIOVASCULAR DISEASES.....	5P01 HL14780-04	355,286
MASON, DEAN T.....	MECHANISMS AND TREATMENT OF CARDIOVASCULAR DISEASES.....	5P01 HL14780-05	376,973
MASON, WILLIAM A.....	PSYCHOSOCIAL DEVELOPMENT.....	5R01 HD06367-05	162,691
MC NAMEE, MARK G.....	DYNAMIC INTERACTIONS OF THE ACETYLCHOLINE RECEPTOR.....	1R01 NS13050-01	44,186
MEARES, CLAUDE F.....	BIFUNCTIONAL CHELATING AGENTS IN TUMOR LOCALIZATION.....	5R01 CA16861-02	51,106
MEIZEL, STANLEY.....	BIOCHEMICAL STUDIES OF IN VITRO SPERM CAPACITATION.....	5R01 HD06698-03	43,970
MEIZEL, STANLEY.....	STUDIES OF AN INACTIVE TESTES AND SPERM TRYPSIN.....	5R01 HD07893-02	39,515
MULLONEY, BRIAN.....	PHYSIOLOGICAL MECHANISMS PRODUCING ORDERED MOVEMENT.....	5R01 NS12295-02	46,092
PAPPAGIANIS, DEMOSTHENES.....	ROLE OF LYMPHOCYTES IN IMMUNITY TO COCCIDIOIDOMYCOSIS.....	5R01 AI12158-03	38,442
PAPPAGIANIS, DEMOSTHENES.....	INDUCED ACTIVE IMMUNITY TO COCCIDIOIDOMYCOSIS.....	1R01 AI13336-01	68,655
PHIAFF, H J.....	GENOME COMPARISON AS A BASIS FOR YEAST SYSTEMATICS.....	2R01 GM16370-07	74,812
PORTNEY, GERALD L.....	PHOTOGRAMMETRIC QUANTIFICATION OF THE OPTIC CUP.....	1R01 EY01841-01	70,083
PREISS, JACK.....	REGULATION OF POLYSACCHARIDE SYNTHESIS.....	2R01 AI05520-14	138,437
PRITCHARD, WILLIAM R.....	SUPPORT FOR REGIONAL PRIMATE RESEARCH CENTER.....	5P40 RR00169-15	1,725,498
PRITCHARD, WILLIAM R.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05457-14	93,954
RABINOWITZ, LAWRENCE.....	RENAL EXCRETION OF ORGANIC NON-ELECTROLYTES.....	5R01 AM12367-09	66,167
RAVENTOS, ANTOLIN.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	2P20 CA17419-02	88,846
RENKIN, EUGENE M.....	REGULATORY MECHANISMS IN BLOOD CIRCULATION.....	5R01 HL17998-02	48,388
RENKIN, EUGENE M.....	CAPILLARY TRANSPORT OF LARGE MOLECULES.....	5R01 HL18010-02	84,905
RIGGINS, RICHARD S.....	STUDY OF SCLIOSIS.....	2R01 AM15278-03	79,983
ROGERS, QUINTON R.....	THE ROLE OF NUTRITION IN FOOD INTAKE REGULATION.....	2R01 AM13252-07	103,998
RUCKER, ROBERT B.....	EXPERIMENTAL ATHEROSCLEROSIS AND ELASTIN METABOLISM.....	2R01 HL15965-04	35,421
RUCKER, ROBERT B.....	CHARACTERIZATION OF LUNG ELASTINS.....	1R01 HL18918-01	38,122
RUEBNER, BORIS H.....	BILE PIGMENT METABOLISM IN FETAL AND NEWBORN MONKEYS.....	5R01 HD07331-03	37,913
SCHMID, CARL W, JR.....	THE ARRANGEMENT OF REPETITIVE SEQUENCES IN HUMANS.....	5R01 GM21346-03	26,550
SCHNEIDER, ROBERT.....	SUPPORT FOR REGISTRY OF ANIMAL NEOPLASMS.....	5R01 CA14916-04	192,610
SCHWABE, CALVIN W.....	HOST-PARASITE RELATIONSHIPS IN PARASITIC ZOOZOSES.....	2R01 AI07857-10	40,002
SCIBIENSKI, ROBERT J.....	CONTROL OF IGM AND IGG ANTIBODY SYNTHESIS.....	5R01 AI11837-03	39,663
SCOBEY, ROBERT P.....	DETECTION OF VISUAL IMAGE DISPLACEMENTS.....	5R01 EY01495-02	39,719
SEGEL, IRWIN H.....	POLYSACCHARIDE METABOLISM OF FUNGI.....	5R01 AI07560-09	26,996
STARR, MORTIMER P.....	THE PHYTOPATHOGENIC BACTERIA.....	5R01 AI08426-20	44,178
STERN, JUDITH S.....	PHYSICAL ACTIVITY CARBOHYDRATE METABOLISM AND OBESITY.....	5R01 AM18899-02	55,745
STOWELL, ROBERT E.....	EFFECTS OF SEX ON COLON CARCINOGENESIS.....	2R26 CA15962-03	44,062
STUMPF, PAUL K.....	MECHANISMS OF DESATURATION OF FATTY ACIDS.....	5R01 GM19213-05	47,970
TAPPEL, ALOYS L.....	NUTRITIONAL FUNCTION OF SELENIUM.....	2R01 AM06424-14	46,464
TAPPEL, ALOYS L.....	FREE RADICAL LIPID PEROXIDATION DAMAGE.....	2R01 AM09933-19	42,505
TAPPEL, ALOYS L.....	FREE RADICAL LIPID PEROXIDATION DAMAGE.....	5R01 AM09933-20	44,850



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
THEILEN, GORDON H.	SARCOMA VIRUS (FESV) INDUCED TUMORS	5R01 CA16869-02	68,468
THEILEN, GORDON H.	SARCOMA VIRUS (FESV) INDUCED TUMORS	5R01 CA16869-03	64,500
TRAUT, ROBERT R.	RIBOSOME STRUCTURE AND FUNCTION	5R01 GM17924-06	95,990
TROY, FREDERIC A.	CHEMISTRY AND BIOSYNTHESIS OF CELL-SURFACE POLYMERS	2R01 AI09352-07	61,881
TUPPER, C. J.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05684-08	185,310
VACQUIER, VICTOR D.	BIOCHEMISTRY OF SPERM-EGG BINDING AND FERTILIZATION	5R01 HD08645-02	24,293
VILLAREJO, MERNA R.	ISOLATION OF THE LACTOSE PERMEASE PROTEIN	1R01 GM23189-01	53,048
WALSH, DONAL A.	HORMONALLY-MEDIATED HEPATIC PROTEIN PHOSPHORYLATION	5R01 AM13613-08	59,782
WATSON, DAVID W.	EXPERIMENTAL IMMUNE COLITIS DUE TO BACTERIAL ANTIGENS	5R01 AM15171-04	58,565
WHEELIS, MARK L.	GENETICS OF CATABOLIC PATHWAYS	5R01 GM18916-05	23,844
WILSON, BARRY W.	TOXICANTS AND AVIAN CELL GROWTH AND METABOLISM	5R01 ES00202-08	46,203
WILSON, BARRY W.	ACHE NERVE-MUSCLE INTERACTIONS AND MUSCULAR DYSTROPHY	5R01 NS10957-03	35,495
WILSON, LOWELL D.	THE ADRENAL MITOCHONDRIAL HYDROXYLATING SYSTEM	5R01 AM16173-03	51,340
YANG, SHANG F.	BIOCHEMICAL EFFECTS AND REACTIONS OF SULFUR DIOXIDE	5R01 ES01045-02	32,815
ZEMAN, FRANCES J.	INTESTINAL ABSORPTION AND FETAL GROWTH RETARDATION	5R01 HD06465-04	45,622
ZEMAN, FRANCES J.	THYROID AXIS DEVELOPMENT IN FETAL PROTEIN DEPRIVATION	5R01 HD08499-02	54,975
ORGANIZATION TOTAL	132	11,259,742	
<b>DOWNEY</b>			
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—RANCHO LOS AMIGOS HOSPITAL ZIP CODE 90242			
BELL, KARL A.	ACUTE EFFECTS OF SMOG AEROSOLS IN MAMMALS	5R01 ES01152-02	51,494
BRODY, GARRY S.	IN VIVO RHEOLOGY OF MATURING HUMAN SKIN AND BURN SCAR	5R01 GM21603-02	47,022
HACKNEY, JACK D.	SUPPORT FOR CENTER FOR ENVIRONMENTAL LUNG DISEASES	5P50 HL15098-05	406,797
PERRY, JACQUELIN	QUANTITATED FUNCTION CORRELATED WITH PHYSICAL IMPAIRMENT	5R01 AM17432-03	33,572
SELVESTER, RONALD H.	ANALYSIS OF INFARCTION WITH CONDUCTION ABNORMALITIES	5R01 HL13524-05	67,793
SELVESTER, RONALD H.	MYOCARDIAL ASSESSMENT BY INVERSE ELECTROCARDIOGRAPHY	5R01 HL14688-04	67,671
SELVESTER, RONALD H.	INFARCT SIZE: ECG, ANGIO, AND PATHOLOGY CORRELATIONS	5R01 HL17532-02	74,822
WEBB, ALAN T.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05542-14	57,030
ORGANIZATION TOTAL	8	806,201	
<b>DUARTE</b>			
CITY OF HOPE MEDICAL CENTER ZIP CODE 91010			
BAXTER, CLAUDE F.	AMINO ACIDS AND RELATED METABOLITES IN THE CNS	3R01 NS03743-13S1	21,834
BEUTLER, ERNEST	DIAGNOSIS AND THERAPY OF GAUCHER'S DISEASE	5R01 AM14755-06	89,367
BEUTLER, ERNEST	THE FORMATION AND SURVIVAL OF RED BLOOD CELLS	5R01 HL07449-14	122,379
BEUTLER, ERNEST	THE FORMATION AND SURVIVAL OF RED BLOOD CELLS	5R01 HL07449-15	145,171
BURTON, JOHN E.	CEREBELLAR CORRELATES OF MOTOR PERFORMANCE	5R01 NS11798-03	17,551
COMINGS, DAVID E.	PHYSIOLOGY AND BIOCHEMISTRY OF HUMAN CHROMOSOMES	5R01 GM15886-10	89,831
COMINGS, DAVID E.	DNA BINDING PROTEINS AND CHROMOSOME STRUCTURE	1R01 GM23199-01	62,256
DUBUC, PAUL U.	CNS REGULATION OF GLUCOSE METABOLISM	5R01 AM17683-02	31,383
EGAN, MARIANNE L.	CHARACTERIZATION OF GASTROINTESTINAL GLYCOPROTEINS	5R26 CA17491-02	50,506
HAMMERSCHLAG, RICHARD	TRANSMITTER RELEASE AND METABOLISM BY 3H-DNFB ASSAY	5R01 NS09885-04	19,808
HOLDEN, JOSEPH T.	ASPARAGINE TRANSPORT IN NORMAL AND NEOPLASTIC CELLS	3R01 CA11186-06S1	11,473
HOLDEN, JOSEPH T.	FACTORS AFFECTING BACTERIAL TRANSPORT SYSTEM ACTIVITY	2R01 GM20395-04	56,740
IKEDA, KAZUO	PHYSIOLOGY OF SYNAPSES IN NORMAL AND MUTANT ANIMALS	5R01 NS07442-10	27,955
IKEDA, KAZUO	NEURAL MECHANISM OF MUTANT PHENOTYPES	5R01 NS11513-03	22,239
ISHIKAWA, KOICHI	NEUROPHYSIOLOGY OF EXCITABLE CELLS IN VITRO	3R01 NS10460-01A2S1	10,220
KAPLAN, WILLIAM D.	GENETICS AND BEHAVIOR OF NEUROLOGICAL MUTANTS	2R01 NS08014-09	105,619
KLEVECEZ, ROBERT R.	TEMPORAL ORDER AND AGING IN CULTURED SOMATIC CELLS	3R01 AG00434-06S1	34,702
KLEVECEZ, ROBERT R.	SYNCHRONIZED CELLS: CONTROLS IN GROWTH AND DIVISION	5R01 CA10619-08	54,443
KLEVECEZ, ROBERT R.	SYNCHRONIZED CELLS: CONTROLS IN GROWTH AND DIVISION	5R01 CA10619-09	56,131
LEVINE, RACHMIEL	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05471-14	149,926
LIEBERMAN, JACK	ANTITRYPSIN AND OTHER CAUSES OF CHRONIC LUNG DISEASES	2R01 HL13398-07	77,528
MC CAMAN, RICHARD E.	THE CHEMISTRY OF PLASTIC CHANGES IN NEURONS	5R01 NS09339-06	57,851
MC CAMAN, RICHARD E.	THE CHEMISTRY OF PLASTIC CHANGES IN NEURONS	5R01 NS09339-07	62,649
MELNYK, JOHN	METHODOLOGY FOR PRODUCTION OF ANEUPLOID ANIMAL MODELS	5R01 HD09265-02	32,076
MITTMAN, CHARLES	GENETIC AND ENVIRONMENTAL INFLUENCES ON LUNG DISEASES	2R01 HL12833-07	77,989

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
MITTMAN, CHARLES	GENETIC AND ENVIRONMENTAL INFLUENCES ON LUNG DISEASES	5R01 HL12833-08	73,637
OHNO, SUSUMU	SEX AND AGING STUDIED IN MUTANT MICE	5R01 AG00042-02	49,589
OHNO, SUSUMU	SEX CHROMOSOMES OF CELLS	5R01 CA16952-15	32,734
RAPPAPORT, HENRY	SUPPORT FOR LYMPHOMA REFERENCE CENTER	3R10 CA18044-01S1	2,930
RAPPAPORT, HENRY	PATHOLOGY CENTER FOR LYMPHOMA CLINICAL STUDIES	2R10 CA18044-02	167,812
RIGGS, ARTHUR D.	REGULATORY PROTEINS IN E. COLI AND EUKARYOTIC CELLS	2R01 HD04420-07	99,883
ROBERTS, EUGENE	NITROGEN METABOLISM OF NERVOUS TISSUE	5R01 NS01615-18	123,237
ROBERTS, EUGENE	NITROGEN METABOLISM OF NERVOUS TISSUE	5R01 NS01615-19	131,562
ROBERTS, EUGENE	NEUROTRANSMISSION AND NEUROLOGICAL DISEASE	5P01 NS12116-02	251,848
RUOSLAHTI, ERKKI I.	ALPHAFETOPROTEIN: STRUCTURE AND FUNCTION	1R01 CA19894-01	93,616
SEECOF, ROBERT L.	DIFFERENTIATION OF NEURONS AND RELATED CELLS IN VITRO	5R01 NS09330-06	70,663
TEPLITZ, RAYMOND L.	GENETIC REGULATION IN LEUKEMIA	5R01 CA17223-02	45,736
TODD, CHARLES W.	IMMUNOLOGY AND IMMUNOCHEMISTRY OF TUMOR ANTIGENS	5R01 CA12631-05	109,033
TODD, CHARLES W.	CORE GRANT: TUMOR IMMUNOLOGY AND CHEMISTRY	5P01 CA16434-02	207,554
TODD, CHARLES W.	ASSAY AND STRUCTURE OF CARCINOEMBRYONIC ANTIGENS	1R26 CA19163-01	147,890
VAUGHN, JAMES E.	SPINAL CORD DEVELOPMENT	5R01 NS09578-07	49,133
WIMER, RICHARD E.	GENETIC MANIPULATIONS OF AMMON'S HORN	5R01 NS10284-04	52,868
YOSHIDA, AKIRA Y.	MOLECULAR PATHOLOGY OF GENETIC DISORDERS IN MAN	5R01 HL15125-04	110,722
YOSHIDA, AKIRA Y.	MOLECULAR PATHOLOGY OF GENETIC DISORDERS IN MAN	5R01 HL15125-05	117,860
YOSHIDA, AKIRA Y.	BIOCHEM GENETICS OF ALPHAI-ANTITRYPSIN ABNORMALITIES	5R01 HL17535-02	39,491
YOSHIDA, AKIRA Y.	BIOCHEM GENETICS OF ALPHAI-ANTITRYPSIN ABNORMALITIES	5R01 HL17535-03	34,729
ORGANIZATION TOTAL	46	3,500,154	
<b>ELDRIDGE</b>			
CALIFORNIA STATE HEALTH AND WELFARE AGENCY-SOMOMA STATE HOSPITAL ZIP CODE 95431			
MC KEAN, CHARLES M.	EFFECT OF AMINO ACIDS ON METABOLISM, EEG, AND BEHAVIOR	5R01 HD01823-13	109,610
ORGANIZATION TOTAL	1	109,610	
<b>EL SEGUNDO</b>			
AEROSPACE CORPORATION ZIP CODE 90245			
JANZ, RONALD F.	ANALYSIS OF MECHANICAL BEHAVIOR OF THE LEFT VENTRICLE	2R01 HL14651-04A1	105,530
ORGANIZATION TOTAL	1	105,530	
<b>FRESNO</b>			
AMERICAN MOSQUITO CONTROL ASSOCIATION ZIP CODE 93727			
SOLLERS-RIEDEL, HELEN	SYNTHESIS OF LITERATURE ON MOSQUITOES	5R01 LM01786-04	18,042
ORGANIZATION TOTAL	1	18,042	
<b>HAYWARD</b>			
CALIFORNIA STATE UNIVERSITY AND COLLEGES-HAYWARD STATE UNIVERSITY ZIP CODE 94542			
LIVSON, NORMAN	ADOLESCENT ANTECEDENTS OF FAMILY SIZE	5R01 HD09191-02	38,951
ORGANIZATION TOTAL	1	38,951	
<b>IRVINE</b>			
UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT IRVINE ZIP CODE 92664			
ARFIN, STUART M.	AMINOACYL - TRNA SYNTHETASE FORMATION IN ANIMAL CELLS	5R01 GM21002-03	31,950
ARMENTROUT, STEVEN A.	EXPLORATORY STUDIES IN CANCER RESEARCH	5P20 CA13948-02	65,757
ARMENTROUT, STEVEN A.	WESTERN CANCER STUDY GROUP	3R10 CA14472-03S1	5,812
ARMENTROUT, STEVEN A.	MECHANISMS OF FIBRINOGEN SYNTHESIS	5R01 HL16198-03	33,829
ARQUILLA, EDWARD R.	IMMUNOLOGY STRUCTURE SITE AND ACTION OF INSULIN	5R01 AM13441-08	93,720
BARTLETT, ROBERT H.	PROLONGED EXTRACORPOREAL CARDIOPULMONARY SUPPORT	2R01 HL15593-03A1	108,631
BERNS, MICHAEL W.	DIRECTED CHROMOSOME DELETIONS BY LASER	1R01 GM22754-01	41,988
BERNS, MICHAEL W.	IN VITRO STUDIES ON HEART CELL FUNCTION	5R01 HL15740-04	62,971

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
BODE, HANS R.	REGULATION OF MULTIPOTENT CELL DIFFERENTIATION.....	5R01 HD08086-03	36,174
CAMPBELL, RICHARD D.	EFFECT OF EXPERIMENTAL NERVE DEPLETION ON DEVELOPMENT.....	5R01 NS12446-02	28,626
CASERIO, MARJORIE C.	ALKYLATION OF DISULFIDES-SULFENYL SALTS.....	1R01 CA19944-01	45,902
CLARK, JEFFREY L.	POLYAMINES AND GROWTH CONTROL IN 3T3 CELLS.....	5R01 GM21854-02	29,118
CONNOLLY, JOHN E.	TREATMENT OF ENDOTOXIN SHOCK BY TOTAL BODY WASHOUT.....	5R01 GM20990-02	41,648
COTMAN, CARL W.	SYNAPTIC MEMBRANE STRUCTURE AND FUNCTION.....	2R01 NS08597-07	109,437
COTMAN, CARL W.	SYNAPTIC MEMBRANE STRUCTURE AND FUNCTION.....	5R01 NS08597-08	107,392
CROCKER, T. TIMOTHY	NEOPLASIA AND DIFFERENTIATION IN TRACHEAL EPITHELIUM.....	5R01 CA15079-02	66,879
CUNNINGHAM, DENNIS D.	INITIATION OF FIBROBLAST DIVISION BY GLUCOCORTICOIDS.....	3R01 CA12306-05S1	13,048
CUNNINGHAM, DENNIS D.	INITIATION OF FIBROBLAST DIVISION BY GLUCOCORTICOIDS.....	5R01 CA12306-06	66,916
DETTMAN, GERALDINE L.	MYELOMA PROTEINS, MECHANISMS OF SYNTHESIS REGULATION.....	5R01 CA15671-03	29,836
FALK, DARREL R.	TISSUE DYNAMICS OF PYRIMIDINE SYNTHESIS IN DROSOPHILA.....	1R01 GM23097-01	20,725
FELSHER, BERTRAM F.	STUDIES ON HEPATIC BILIRUBIN TRANSPORT.....	5R01 AM18088-03	28,678
GIOLLI, ROLAND A.	VISUAL AND NON-VISUAL CORTICAL EFFERENTS.....	5R01 EY00607-10	16,077
GRANGER, GALE A.	LYMPHOCYTE RELEASED CELL TOXIN.....	5R01 AI09460-07	92,560
HALL, PETER F.	BIOCHEMISTRY OF CYTOCHROME P.450; STEROID HYDROXYLATION.....	5R01 AM15621-03	33,105
HALL, PETER F.	ADRENAL TUMOR CELLS: REGULATION AND STEROID SYNTHESIS.....	2R01 CA14638-04	65,030
HAMKALO, BARBARA A.	STRUCTURE AND FUNCTION OF EUKARYOTIC CHROMOSOMES.....	1R01 GM23241-01	66,842
HAYES, SIDNEY J.	ROLE OF LAMBDA OOP RNA IN DNA REPLICATION.....	5R01 GM21958-02	38,674
IBSEN, KENNETH H.	METABOLIC INTERRELATIONSHIPS.....	5R01 CA07883-12	42,709
JAFFE, NORMAN R.	ENZYMOLOGY OF NORMAL AND ABNORMAL LIMB DEVELOPMENT.....	5R01 HD09117-02	34,271
KOHUT, ROBERT I.	VESTIBULAR AND AUDITORY FUNCTION OF THE SACculus.....	5R01 NS10522-04	82,141
KOHUT, ROBERT I.	TRANSPLANTATION OF TISSUE CULTURED CARTILAGE.....	1R01 NS13097-01	27,445
KRASSNER, STUART M.	METABOLISM AND TRANSFORMATION IN HEMOFLAGELLATES.....	5R01 AI06827-11	29,712
LYNCH, GARY S.	INTEGRATIVE NEUROANATOMY.....	5R01 NS11589-03	27,059
MANNING, JERRY E.	GENE SEQUENCE ORGANIZATION IN DROSOPHILA MELANOGASTER.....	5R01 GM22207-02	46,496
MC GAUGH, JAMES L.	PSYCHOPHYSIOLOGY OF MEMORY AND AGING.....	2R01 AG00469-02	67,290
MC IVER, ROBERT T., JR.	MASS SPECTROMETRY OF ULTRA-LOW VAPOR PRESSURE COMPOUNDS.....	1R01 GM23416-01	93,494
MC LAUGHLIN, CALVIN S.	COMPARATIVE STRUCTURE AND FUNCTION OF RIBOSOMES.....	2R01 CA10628-09	103,229
MOLDAVE, KIVIE	MECHANISM OF PROTEIN BIOSYNTHESIS.....	5R01 AM15156-06	76,441
MOLDAVE, KIVIE	MECHANISM OF PROTEIN BIOSYNTHESIS.....	2R01 AM15156-07	96,021
MOORE, HAROLD W.	SYNTHESIS OF MITOMYCIN AND RELATED COMPOUNDS.....	2R01 CA11890-07	89,078
MOSIER, H. DAVID, JR.	MECHANISMS CONTROLLING GROWTH RATE.....	2R01 HD07074-03	63,839
NUNN, WILLIAM D.	CONTROL OF LIPID METABOLISM IN ESCHERICHIA COLI.....	1R01 GM22466-01A1	55,306
OSBORNE, JERRY L.	CO2-SENSITIVE RECEPTORS IN THE MAMMALIAN LUNG.....	1R01 HL18685-01	43,983
OVERMAN, LARRY E.	REDUCTIVE CLEAVAGE OF REACTIVE DISULFIDES—MODEL STUDIES.....	5R01 GM20674-02	19,951
OVERMAN, LARRY E.	CHOLINERGIC AGENTS—HISTRINOCOTOXIN SYNTHESIS.....	5R01 NS12389-02	44,452
PISZCZEWICZ, DENNIS	STRUCTURES OF AMINOACYL-TRNA SYNTHETASES.....	5R01 GM19508-05	40,841
RAIDT, DONALD J.	REGULATORY EVENTS IN CELL-MEDIATED IMMUNE RESPONSES.....	5R01 CA15965-03	41,861
SASSIN, JON F.	GROWTH HORMONE AND STEROID RELEASE IN SLEEP.....	5R01 AM18064-03	45,919
SCHNEIDERMAN, HOWARD A.	METABOLISM AND HORMONES IN ARTHROPODS.....	5R01 AI10527-06	71,681
SCHNEIDERMAN, HOWARD A.	METABOLISM AND HORMONES IN ARTHROPODS.....	2R01 AI10527-07	76,923
SCHNEIDERMAN, HOWARD A.	GENETICALLY-CONTROLLED MALIGNANT NEOPLASMS.....	5R01 CA12643-05	42,666
SCHNEIDERMAN, HOWARD A.	GENETICALLY-CONTROLLED MALIGNANT NEOPLASMS.....	2R01 CA12643-06	37,670
SCHNEIDERMAN, HOWARD A.	GENETIC ANALYSIS OF BASIC DEVELOPMENTAL MECHANISMS.....	5R01 HD06082-06	85,975
SCHNEIDERMAN, HOWARD A.	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07008-11	109,035
SHEA, KENNETH J.	TEMPLATE SYNTHESIS OF MACROMOLECULES.....	1R01 GM22995-01	35,200
SKLANSKY, JACK	COMPUTER-AIDED IMAGE RECOGNITION.....	5R01 GM17632-05	179,520
SPEERLING, DONALD R.	HYPOTHERMIA—HE-O2 SURFACE-INHALATE TEMPERATURE CONTROL.....	1R01 HL18201-01A1	44,152
STANBRIDGE, ERIC J.	GENETIC ANALYSIS OF HUMAN MALIGNANCY.....	1R01 CA19401-01	75,303
STARR, ARNOLD	AUDITORY BRAINSTEM RESPONSES IN NEUROLOGICAL DISEASE.....	5R01 NS11876-02	111,201
STARR, ARNOLD	AUDITORY BRAINSTEM RESPONSES IN NEUROLOGICAL DISEASE.....	5R01 NS11876-03	115,629
SUTHERLAND, BETSY M.	DNA REPAIR - HUMAN, E. COLI PHOTOREACTIVATING ENZYMES.....	2R01 CA14005-04	71,995
SUTHERLAND, BETSY M.	DNA REPAIR - HUMAN, E. COLI PHOTOREACTIVATING ENZYMES.....	5R01 CA14005-05	65,417
SUTHERLAND, JOHN C.	MECHANISM OF ACTION OF THE PHOTOREACTIVATING ENZYME.....	5R01 CA16343-02	26,985
SYMPHERD, PAUL S.	GENETIC CONTROL OF RIBOSOME ASSEMBLY.....	5R01 GM18293-06	50,263
TAFT, ROBERT W.	HYDROGEN BONDING AND IONIC SOLVATION BY FNMR AND ICR.....	2R01 GM14078-11	81,510
THOMPSON, RICHARD F.	CENTRAL NEURAL MECHANISMS OF HEARING.....	2R01 NS12268-02	41,510
VALENTA, LUBOMIR J.	THYROGLOBULIN STRUCTURE AND THYROID HORMONE SYNTHESIS.....	5R01 AM18645-02	35,521
VAN DEN NOORT, STANLEY	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05351-15	118,580



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
VERZEANO, MARCEL	ACTIVITY IN THE NEURONAL NETWORKS OF THE BRAIN	5R01 NS07145-09	51,241
WAGNER, EDWARD K.	CONTROL OF VIRAL RNA SYNTHESIS IN HERPES VIRUS INFECTION	5R01 CA11861-07	50,886
WARNER, ROBERT C.	STUDIES OF POLYNUCLEOTIDES AND NUCLEIC ACIDS	2R01 CA12627-07	102,539
WATSON, JAMES D.	THE INDUCTION OF ANTIBODY SYNTHESIS	7R01 AI13383-01	54,216
WATSON, JAMES D.	THE INDUCTION OF ANTIBODY SYNTHESIS	2R01 AI13383-02	62,298
WAYMIRE, JACK C.	REGULATION OF ADRENERGIC METABOLISM	5R01 NS11061-03	42,183
WHALEN, RICHARD E.	HORMONAL CONTROL OF BEHAVIOR	5R01 HD00893-13	61,788
WHITE, STEPHEN H.	MODEL STUDIES OF MYELIN STABILITY	2R01 NS10837-02	59,457
WILSON, ARCHIE F.	PULMONARY PARENCHYMAL TISSUE VOLUME	5R01 HL16703-02	20,934
WILSON, ARCHIE F.	AEROSOL THERAPY	1R01 HL19704-01	123,077
WISHNOW, RODNEY M.	EFFECT OF ENTEROTOXINS ON ADRENAL TUMOR CELLS	5R01 CA16868-02	24,541
WISHNOW, RODNEY M.	EFFECT OF ENTEROTOXINS ON ADRENAL TUMOR CELLS	5R01 CA16868-03	25,823
WOOLFOLK, CLIFFORD A.	BIOCHEMISTRY OF PURINE OXIDIZING ENZYMES	1R01 GM22815-01	29,789
ORGANIZATION TOTAL	81 4,738,371		
<b>LA JOLLA</b>			
<b>SALK INSTITUTE FOR BIOLOGICAL STUDIES ZIP CODE 92037</b>			
BELLUGI-KLIMA, URSULA	THE ACQUISITION OF SIGN LANGUAGE AND ITS STRUCTURE	5R01 NS09811-06	125,678
BOURGEOIS-COHN, SUZANNE	STUDIES OF REGULATION IN E. COLI EXTENDED TO LYMPHOMAS	5R01 GM20868-03	144,345
BYRD, WILLIAM J.	ISOLATION OF A T-CELL SUBSTITUTE FROM FETAL SERA	5R01 AI11327-03	44,918
BYRD, WILLIAM J.	T-T CELL COLLABORATION AND TUMOR CELL DESTRUCTION	5R01 CA15964-03	73,450
COHN, MELVIN	ANTIBODY SYNTHESIS	5R01 AI05875-12	186,021
COHN, MELVIN	IMMUNOSELECTION AND CANCER: A PROBLEM IN EVOLUTION	1R01 CA19754-01	228,823
DENNERT, GUNTHER	IMMUNE RESPONSE TO TUMOR CELL SURFACE ANTIGENS	5R01 CA15581-02	76,686
DENNERT, GUNTHER	THE ANTIGEN RECEPTOR OF A CONTINUOUS T KILLER CELL LINE	1R01 CA19334-01	47,273
ECKHART, WALTER	VIRAL GENE FUNCTIONS AND REGULATION OF CELL GROWTH	2R01 CA13884-04	105,112
ECKHART, WALTER	VIRAL GENE FUNCTIONS AND REGULATION OF CELL GROWTH	5R01 CA13884-05	113,964
ECKHART, WALTER	CORE GRANT - REGULATION, THE CELL MEMBRANE AND CANCER	5P01 CA14195-03	456,788
FAN, HUNG Y.	CELLULAR RNA METABOLISM OF RNA TUMOR VIRUSES	5R01 CA15747-03	70,206
FARRON, FRANCOISE T.	THE ROLE OF ALTERED GENE EXPRESSION IN NEOPLASMS	5R01 CA17497-02	65,879
FRANCKE, BERTOLD R.	EARLY GENES OF POLYOMA VIRUS AND DNA REPLICATION	5R01 CA15058-03	93,670
GIBBS, DON E.	POLY-5'-AZANUCLEOTIDES IN NUCLEIC ACID SYNTHESIS	1R01 GM22542-01	57,073
GOSPODAROWICZ, DENIS J.	LH RECEPTOR SITES IN LUTEAL CELLS, LUTEOTROPIC FACTORS	5R01 HD08180-03	62,607
GUILLEMIN, ROGER C.	BRAIN PEPTIDES ON PITUITARY FUNCTIONS & IN DIABETES	5P01 AM18811-02	272,157
GUILLEMIN, ROGER C.	NEUROENDOCRINOLOGY OF REPRODUCTION AND GROWTH	5P50 HD09690-02	675,741
HAMILTON, RICHARD T.	COMPARISON OF TRANSPORT IN NORMAL AND TRANSFORMED CELLS	1R01 CA19523-01	89,430
HEINEMANN, STEPHEN F.	SYNAPSE FORMATION IN CLONED CELL LINES	5R01 NS15549-03	62,515
HOLLEY, ROBERT W.	FACTORS REQUIRED FOR MAMMALIAN CELL DIVISION	5R01 CA11176-08	112,959
HUNTER, ANTHONY R.	MACROMOLECULAR SYNTHESIS AND CELL GROWTH CONTROL	5R01 CA17096-02	60,912
HYMAN, ROBERT A.	GENETIC BASIS OF ANTIGENIC VARIATION	5R01 CA13287-05	41,091
HYMAN, ROBERT A.	GENETIC ANALYSIS OF GROSS LEUKEMIA ANTIGENS	3R01 CA17020-01S1	3,988
JAEINISCH, RUDOLF J.	CELLULAR DIFFERENTIATION AND VIRAL ONCOGENESIS	5R01 CA15561-03	97,925
KIDOKORO, YOSHIKI	MUSCLE DIFFERENTIATION AND SYNAPSE FORMATION IN VITRO	5R01 NS11918-02	12,398
LEFFERT, HYAM L.	HEPATOCELLULAR GROWTH: IN VITRO SYSTEM	5R01 CA14312-03	66,217
LENNON, VANDA A.	T AND B CELLS IN EXPERIMENTAL ALLERGIC ENCEPHALITIS	5R01 NS11719-03	110,293
LINDSTROM, JON M.	STUDIES USING PURIFIED ACETYLCHOLINE RECEPTOR	5R01 NS11323-03	68,823
LINDSTROM, JON M.	STUDIES USING PURIFIED ACETYLCHOLINE RECEPTOR	2R01 NS11323-04	71,329
NICOLSON, GARTH I.	CELL SURFACE PROPERTIES OF METASTATIC TUMORS	5R01 CA15122-02	74,449
ORGEI, LESLIE E.	EVOLUTION OF GENETIC SPECIFICITY	5R01 GM13435-11	85,633
PATRICK, JAMES W.	TROPHIC INTERACTIONS OF NERVE AND MUSCLE	7R01 NS13546-01	46,975
PAUL, DIETRICH	GROWTH CONTROL OF SV40 VIRUS TRANSFORMED 3T3 CELLS	5R01 CA15087-03	87,333
PAUL, DIETRICH	GROWTH CONTROL BY SERUM FACTORS IN LIVER CELLS	5R01 GM20101-05	64,179
RANGANATHAN, RAMACHANDRAN	SYNTHESIS AND CHEMOTHERAPY OF NUCLEIC ACID ANALOGS	5R01 CA12960-04	68,576
SALK, JONAS E.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05595-12	201,547
SCHUBERT, DAVID R.	PHYSIOLOGY OF NERVE, GLIAL, AND MUSCLE CELL LINES	5R01 NS09658-06	80,024
SEFTON, BARTHOLOMEW M.	VIRAL MEMBRANES: STRUCTURE AND BIOSYNTHESIS	5R01 CA17289-02	57,891
SHIER, W THOMAS	ESTERASES AND AMIDASES IN ONCOGENIC TRANSFORMATION	5R01 CA16123-03	59,475
TROWBRIDGE, IAN S.	CELL SURFACE PROTEINS OF T AND B LYMPHOCYTES	5R01 CA17733-02	72,269



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
VERMA, INDER M.	DNA POLYMERASES OF AVIAN AND MURINE RNA TUMOR VIRUSES	5R01 CA16561-02	56,517
VERMA, INDER M.	DNA POLYMERASES OF AVIAN AND MURINE RNA TUMOR VIRUSES	5R01 CA16561-03	59,379
VOGT, MARGUERITE M.	FUNCTION OF VIRAL GENES INVOLVED IN TRANSFORMATION	5R01 CA13608-05	117,376
WALTER, GERNOT F.	CELL SURFACE PROTEINS, POLYOMA AND SV40 GENE PRODUCTS	5R01 CA15365-03	74,302
WESTALL, FREDERICK C.	CHEMICAL REQUIREMENTS FOR HYPERACUTE ENCEPHALOMYELITIS	5R01 NS12391-02	86,540
YOGESWARAN, GANESA	GLYCOLIPIDS, SURFACE GLYCOPROTEINS AND TUMOR METASTASIS	1R01 CA19312-01	68,198
ORGANIZATION TOTAL	47	5,058,934	
<b>SCRIPPS CLINIC AND RESEARCH FOUNDATION ZIP CODE 92037</b>			
ARROYAVE, CARLOS M.	IMPORTANCE OF ALTERNATE COMPLEMENT PATHWAY IN DISEASE	5R01 AI12594-02	76,772
CARSON, DENNIS A.	ADENOSINE DEAMINASE DEFICIENCY: GENETICS AND IMMUNOLOGY	1R01 GM23200-01	61,148
CHISARI, FRANCIS V.	IMMUNOBIOLOGY AND PATHOGENESIS OF HEPATITIS B	1R01 AI13393-01	78,943
COOPER, NEIL R.	CANCER CELL SURVIVAL AND MECHANISMS OF CYTOTOXICITY	2R01 CA14692-04	92,155
CRAWFORD, IRVING P.	MUTATIONAL PERTURBATION OF SUBUNIT INTERACTIONS	5R01 GM21810-02	45,569
CROSBY, WILLIAM H.	STUDY OF IRON METABOLISM	5R01 AM16452-03	52,204
DAVID, GARY S.	ENHANCEMENT AND CELLULAR IMMUNITY IN TUMOR SYSTEMS	5R01 CA15586-03	54,844
DAWSON, ARTHUR D.	PULMONARY BLOOD FLOW DISTRIBUTION IN MAN	3R01 HL10009-10S1	7,203
DAWSON, ARTHUR D.	REGIONAL LUNG FUNCTION IN MAN	2R01 HL10009-11	30,357
DIXON, FRANK J.	IMMUNOPATHOLOGIC STUDIES	2P01 AI07007-11	1,793,627
DIXON, FRANK J.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05514-14	204,841
EDGINGTON, THOMAS S.	IMMUNOGENESIS OF AUTOIMMUNE HEMOLYTIC ANEMIA	5R01 AM18163-02	94,426
EDGINGTON, THOMAS S.	HUMAN TUMOR-ASSOCIATED MOLECULAR EXPRESSIONS	2R01 CA14346-03	79,685
EDGINGTON, THOMAS S.	HUMAN TUMOR-ASSOCIATED MOLECULAR EXPRESSIONS	5R01 CA14346-04	83,618
ESSER, ALFRED F.	INTERACTION OF COMPLEMENT PROTEINS WITH MEMBRANES	1R01 AI14099-01	40,758
FERRONE, SOLDANO	ALLOGRAFTS AND SENSITIZATION DETECTED BY LYMPHOBLASTS	5R01 AI13154-02	60,570
FERRONE, SOLDANO	ANTIGENS AND ANTIBODIES IN HUMAN MELANOMA	5R01 CA16069-02	67,059
GOLDSTEIN, DAVID A.	REPLICATION OF PAPOVA VIRAL DNA	5R01 CA11151-08	38,872
GOTZE, OTTO	ACTIVATION AND CONTROL OF PROPERDIN SYSTEM PROTEINS	1R01 AI13010-01	68,678
HANSTEIN, WALTER G.	PHOTOAFFINITY-LABELING OF MITOCHONDRIAL COMPONENTS	5R01 GM19734-05	51,314
HATEFI, YOUSSEF	ENERGY GENERATION AND CONSERVATION IN MITOCHONDRIA	5R01 AM08126-13	100,293
HENSON, PETER M.	RELEASE OF INJURIOUS CONSTITUENTS FROM CELLS	3R01 GM19322-04S1	29,000
HENSON, PETER M.	RELEASE OF INJURIOUS CONSTITUENTS FROM CELLS	5R01 GM19322-05	66,284
HOCH, JAMES A.	GENETIC CONTROL OF DEVELOPMENT	5R01 GM19416-05	48,732
HOCH, JAMES A.	CONTROL OF ENZYME SYNTHESIS AND REGULATION	5R01 GM19674-03	24,710
HOCH, SALLIE O.	DNA-BINDING PROTEINS IN HUMAN SERUM	5R01 CA17563-02	44,898
HOCH, SALLIE O.	TRYPTOPHAN BIOSYNTHESIS IN BACILLUS SUBTILIS	5R01 GM18627-05	38,101
HUENNEKENS, FRANK M.	CHEMISTRY AND MECHANISM OF ACTION OF FOLATE COENZYMES	5R01 CA06522-15	157,084
HUENNEKENS, FRANK M.	CANCER CENTER SUPPORT GRANT (SPECIALIZED)	1P01 CA16600-01A1	313,949
HUGLI, TONY E.	ANAPHYLATOXINS AS INFLAMMATORY AND CHEMOTACTIC AGENTS	1R01 HL20220-01	78,797
ITO, JUNETSU	MEMBRANE SYNTHESIS AND SPORULATION	5R01 GM20055-03	33,778
KATZ, DAVID H.	CELL COOPERATION IN IMMUNE RESPONSES	7R01 AI13874-01	106,286
KOLB, WILLIAM P.	C-RECEPTOR DEPENDENT LYSIS OF MALIGNANT CELLS	5R01 CA18570-02	36,163
LEARNER, RICHARD A.	THE CELLULAR SLIME MOLD AS A MODEL FOR HUMAN DEVELOPMENT	1R01 GM22500-01	64,192
LEWIS, URBAN J.	CONVERSION PRODUCTS OF GROWTH HORMONE AND PROLACTIN	5R01 AM09537-11	93,915
LEWIS, URBAN J.	PRIMARY STRUCTURES OF GROWTH HORMONES AND PROLACTINS	2R01 AM16065-04	33,006
LEWIS, URBAN J.	PRIMARY STRUCTURES OF GROWTH HORMONES AND PROLACTINS	5R01 AM16065-05	34,114
LONGMIRE, ROBERT L.	HODGKIN'S DISEASE AND LYMPHORETICULAR ACTIVITIES	5R01 CA13465-03	49,272
MC MILLAN, ROBERT	PATHOGENESIS OF THE IMMUNE THROMBOCYTOPENIAS	2R01 AM16125-05	68,910
MC MILLAN, ROBERT	LYMPHOCYTE FUNCTION IN LUPUS AND RHEUMATOID ARTHRITIS	5R01 AM16994-03	54,122
MEINKE, GERALDINE C.	INHIBITION OF PCT BY IMMUNIZATION WITH MYELOMA PROTEINS	5R01 CA16541-02	52,797
MEINKE, GERALDINE C.	INHIBITION OF PCT BY IMMUNIZATION WITH MYELOMA PROTEINS	5R01 CA16541-03	54,824
MEINKE, WILLIAM J.	DETECTION OF HUMAN WART VIRAL DNA IN MALIGNANT TISSUE	5R01 CA17244-02	34,573
MORGAN, WILLIAM T.	SERUM PROTEIN FUNCTION IN ORGANIC ANION TRANSPORT	5R01 HD09252-02	28,586
MORRISON, DAVID C.	BIOCHEMICAL PARAMETERS OF LPS-INITIATED HOST RESPONSE	1R01 AI13187-01	65,854
MULLER-EBERHARD, HANS J.	BLOOD SYSTEMS IN COAGULATION AND VESSEL DISEASE	5P01 HL16411-02	487,623
MULLER-EBERHARD, URSULA	HEMOGLOBIN METABOLISM CLINICAL AND BASIC APPROACH	5R01 AM16737-14	51,861
MULLER-EBERHARD, URSULA	DISTRIBUTION OF IRON AND HEME BY PROTEINS	5R01 AM18329-02	114,240
MULLER-EBERHARD, URSULA	CARCINOGEN METABOLIZING ENZYMES IN RAT LIVER	5R01 CA17735-02	42,386
MULLER-EBERHARD, URSULA	PERINATAL DETOXIFICATION MECHANISMS	5R01 HD04445-07	122,879
OLDSTONE, MICHAEL B.	CHRONIC DISEASE CAUSED BY PERSISTENT VIRAL INFECTION	5R01 AI09484-07	73,513

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
OLDSTONE, MICHAEL B.	CHRONIC DISEASE CAUSED BY PERSISTENT VIRAL INFECTION	5R01 AI09484-08	66,852
OLDSTONE, MICHAEL B.	PATHOGENESIS OF M. SCLEROSIS & A.L. SCLEROSIS	5P01 NS12428-02	216,798
PELLEGRINO, MICHELE A.	SOLUBLE HL-A ANTIGENS IN THE SERA OF CANCER PATIENTS	5R01 CA16071-03	56,189
PLOW, EDWARD F.	THE ALTERNATIVE PATHWAY FOR FIBRINOLYSIS	5R01 HL17964-02	54,067
REISFELD, RALPH A.	MOLECULAR APPROACHES TO CELL SURFACE ANTIGENS	2R01 AI10180-06	122,237
REISFELD, RALPH A.	NEOPLASIA AND HISTOCOMPATIBILITY ANTIGENS IN SERUM	1R01 CA19108-01	56,556
SINHA, YAGYA N.	ROLE OF PROLACTIN IN MOUSE MAMMARY TUMORIGENESIS	1R01 CA18664-01	60,180
SPIEGELBERG, HANS L.	STUDIES OF IMMUNOGLOBULIN SUBCLASSES	5R01 AI10734-05	94,732
SPIZIZEN, JOHN	COMPETENCE FOR GENETIC TRANSFER OF DNA	5R01 AI12452-02	56,108
SPIZIZEN, JOHN	CONTROL OF THE TRANSPORT OF BIOLOGICALLY ACTIVE DNA	5R01 GM20145-02	51,291
STOUGHTON, RICHARD B.	PERCUTANEOUS ABSORPTION AND EFFECTS OF ANTIMETABOLITES	5R01 AM11649-08	85,900
STOUGHTON, RICHARD B.	PERCUTANEOUS ABSORPTION AND EFFECTS OF ANTIMETABOLITES	2R01 AM11649-09	75,645
STRUM, WILLIAMSON B.	BIOCHEMICAL BASIS FOR INTESTINAL ANTIFOLATE TOXICITY	5R01 CA17809-02	52,027
TAN, ENG M.	NUCLEAR ANTIGENS IN SYSTEMIC LUPUS ERYTHEMATOSUS	5R01 AI12198-10	93,595
VANDERLAAN, WILLARD P.	GH AND PROLACTIN IN GROWTH AND TUMORIGENESIS	2R01 CA14025-04	107,680
VANDERLAAN, WILLARD P.	DIABETES, SOMATOTROPIN, FACTOR VIII & ATHEROSCLEROSIS	1R01 HL20517-01	128,517
VAUGHAN, JOHN H.	MECHANISMS OF BRONCHIAL ASTHMA AND OTHER ALLERGIES	2P50 AI10386-06	137,157
VAUGHAN, JOHN H.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00833-02	464,498
VOLD, BARBARA S.	ROLE OF tRNA IN CELLULAR REGULATORY MECHANISMS	5R01 GM17421-07	70,500
WEIGLE, WILLIAM O.	REGULATION OF THE IMMUNE RESPONSE	5R01 AI12449-02	31,861
WELSH, RAYMOND M. JR.	THE ROLE OF DEFECTIVE VIRUS IN CHRONIC VIRUS DISEASE	5R01 AI12438-02	49,054
WHITELEY, JOHN M.	CHEMISTRY OF FOLATE AND PTERIDINE COENZYMES	2R01 CA11778-07	82,796
WHITELEY, JOHN M.	PTERIDINE-DEPENDENT HYDROXYLASES FROM LIVER AND BRAIN	5R01 GM22125-02	24,504
WILSON, CURTIS B.	METABOLISM OF RENAL BASEMENT MEMBRANES AND TUBULAR CELLS	1R01 AM18626-01	52,637
ZIMMERMAN, THEODORE S.	COMPLEMENT ACTIVATION IN HEMORRHAGIC SHOCK SYNDROME	5R22 AI11751-03	41,239
ZIMMERMAN, THEODORE S.	BLOOD COAGULATION: PLATELET-PLASMA PROTEIN INTERACTION	3R01 HL15491-03S1	2,200
ZIMMERMAN, THEODORE S.	BLOOD COAGULATION: PLATELET-PLASMA PROTEIN INTERACTION	2R01 HL15491-04	77,662
ORGANIZATION TOTAL	78	8,099,867	
<b>SCRIPPS MEMORIAL HOSPITAL ZIP CODE 92037</b>			
HENSON, PETER M.	PATHOGENESIS OF INFLAMMATORY LUNG INJURY	5R01 HL17786-02	117,273
ORGANIZATION TOTAL	1	117,273	
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO ZIP CODE 92037</b>			
ABELSON, JOHN N.	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACIDS	5R01 CA10984-08	59,138
ABRAHAM, JERROLD L.	SEM AND X-RAY ANALYSIS IN HUMAN PULMONARY PATHOLOGY	1R23 HL19619-01	39,656
AKESON, WAYNE H.	CONNECTIVE TISSUE RESPONSE TO IMMOBILITY	2R01 AM14918-05A2	91,554
AKESON, WAYNE H.	FIXATION OF FRACTURES WITH CARBON COMPOSITE PLATES	5R01 AM15478-05	77,423
AKESON, WAYNE H.	FIXATION OF FRACTURES WITH CARBON COMPOSITE PLATES	5R01 AM15478-06	77,650
AKESON, WAYNE H.	PATHOPHYSIOLOGY OF THE COMPARTMENT SYNDROME	1R01 AM18824-01	100,036
ALEXANDER, NICHOLAS M.	IODINE METABOLISM AND THYROXINE BIOSYNTHESIS	5R01 AM15778-05	41,186
ALKSNE, JOHN F.	STEREOTACTIC THROMBOSIS OF INTRACRANIAL ANEURYSMS	5R01 NS11843-02	33,557
ALKSNE, JOHN F.	STEREOTACTIC THROMBOSIS OF INTRACRANIAL ANEURYSMS	5R01 NS11843-03	29,566
ALLISON, WILLIAM S.	STRUCTURAL STUDIES ON THE ENERGY TRANSDUCING ATP'ASE	2R01 GM16974-07	57,295
ASHRAF, MUHAMMAD	ISCHEMIC HEART ULTRASTRUCTURE: MODIFICATION BY THERAPY	5R01 HL18122-02	34,643
BAILY, NORMAN A.	TUMOR LOCALIZATION AND TREATMENT PLANNING	5R01 CA14535-02	40,493
BAKER, BRUCE S.	GENETICS OF MEIOSIS AND DEVELOPMENT IN DROSOPHILA	7R01 GM23345-01	44,859
BECKER, MICHAEL A.	REGULATION OF PURINE NUCLEOTIDE SYNTHESIS IN MAN	5R01 AM18197-02	47,496
BERG, DARWIN K.	SYNAPSES: SPECIFICITY OF FORMATION AND MAINTENANCE	1R01 NS12601-01	58,229
BERNSTEIN, EUGENE F.	PULSELESS FLOW AND CIRCULATORY ASSISTANCE	1R01 HL18948-01	114,723
BICKFORD, REGINALD G.	AUTOMATIC PATTERN RECOGNITION ON ELECTROENCEPHALOGRAM	5R01 NS08962-08	140,998
BLANTZ, ROLAND C.	THE AUTOREGULATION OF GLOMERULAR FILTRATION RATE	2R01 HL14914-04	71,472
BLANTZ, ROLAND C.	THE AUTOREGULATION OF GLOMERULAR FILTRATION RATE	5R01 HL14914-05	71,748
BLUESTEIN, HARRY G.	IMMUNE RESPONSIVENESS AND HISTOCOMPATIBILITY TYPE	5R01 AI10931-05	69,929
BOOKSTEIN, JOSEPH J.	ANGIOGRAPHY OF NONOCCLUSIVE INTESTINAL ISCHEMIA	1R01 GM22396-01	30,070
BOYNTON, ROBERT M.	PSYCHOPHYSIOLOGICAL AND OPTICAL STUDIES OF VISION	3R01 EY01541-02S1	4,401
BOYNTON, ROBERT M.	PSYCHOPHYSIOLOGICAL AND OPTICAL STUDIES OF VISION	2R01 EY01541-03	62,380
BRAUDE, ABRAHAM I.	LETHAL BACTEREMIA	5R01 AI10108-06	87,753
BRAUDE, ABRAHAM I.	GONOCOCCAL INFECTION	5R01 AI11643-03	62,869
BRAUDE, ABRAHAM I.	EXPERIMENTAL PYELONEPHRITIS	5R01 AI12476-07	79,921

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
BRAUDE, ABRAHAM I.	EXPERIMENTAL PYELONEPHRITIS	5R01 AI12476-08	82,363
BRODY, STUART	MEMBRANE MUTANTS OF NEUROSPORA	2R01 GM19308-04	23,314
BRODY, STUART	BIOCHEMISTRY OF CIRCADIAN RHYTHMS IN NEUROSPORA	5R01 GM21842-02	22,770
BROWN, WILLIE C.	THIRD COLLEGE RESEARCH PROGRAM	3S06 RR08135-01S1	370
BROWN, WILLIE C.	THIRD COLLEGE RESEARCH PROGRAM	5S06 RR08135-02	154,095
BULLOCK, THEODORE H.	STUDIES IN COMPARATIVE NEUROPHYSIOLOGY	5R01 NS00021-29	65,648
BUONASSISI, VINCENZO	CELLULAR SYNTHESIS AND RELEASE OF MUCOPOLYSACCHARIDES	3R01 HL17995-01S1	22,787
BUONASSISI, VINCENZO	CELLULAR SYNTHESIS AND RELEASE OF MUCOPOLYSACCHARIDES	2R01 HL17995-02	51,099
BUTLER, WARREN L.	PHOTORECEPTOR PIGMENTS IN PHOTORESPONSIVE ORGANISMS	5R01 GM20648-03	38,858
BYFIELD, JOHN E.	IMMUNE SURVEILLANCE? - STUDIES ON A HUMAN CANCER MODEL	7R01 CA21627-01	49,908
CARPENTER, ADELAIDE T.	EM OF RECOMBINATION MUTANTS IN DROSOPHILA	7R01 GM23338-01	26,751
CHARTERS, ALEXANDER C.	STUDIES ON THE HUMORAL CONTROL OF LIVER REGENERATION	5R01 AM17103-03	76,511
COUTTS, RICHARD D.	EFFECT OF DELAYED INTERNAL FIXATION ON FRACTURE HEALING	5R01 AM16625-03	31,567
DEFTOS, LEONARD J.	THE CALCITROPIC HORMONES	2R01 AM15888-04	76,156
DENNIS, EDWARD A.	ACTION OF LIPOLYTIC ENZYMES	5R01 GM20501-02	30,674
DOOLITTLE, RUSSELL F.	FIBRIN FORMATION—MOLECULAR BASIS AND REGULATION	5R01 HL12759-07	105,605
DOOLITTLE, RUSSELL F.	THROMBOSIS RESEARCH PROGRAM PROJECT	1P01 HL18576-01	605,208
DUTTON, RICHARD W.	CELLULAR EVENTS IN THE IMMUNE RESPONSE	5R01 AI08795-08	114,259
DUTTON, RICHARD W.	CELLULAR EVENTS IN THE IMMUNE RESPONSE	5R01 AI08795-09	118,217
FAHEY, ROBERT C.	PHYSIOLOGIC ROLE OF SH/SS REACTIONS IN CELL DORMANCY	5R01 GM22122-02	51,917
FANESTIL, DARRELL D.	ALDOSTERONE STIMULATION OF ION TRANSPORT	5R01 AM14915-06	107,080
FANESTIL, DARRELL D.	ALDOSTERONE STIMULATION OF ION TRANSPORT	5R01 AM14915-07	106,340
FANESTIL, DARRELL D.	STEROID HORMONAL EFFECTS ON RENAL CARCINOMA	5R01 CA15796-03	62,837
FAULKNER, DAVID J.	ISOLATION OF ANTIBIOTICS FROM MARINE ORGANISMS	5R01 AI11969-03	40,265
FEHER, GEORGE	ESR EXPERIMENTS ON BIOLOGICAL SYSTEMS	3R01 GM13191-11S1	6,703
FEHER, GEORGE	SPECTROSCOPIC INVESTIGATIONS OF BIOLOGICAL SYSTEMS	2R01 GM13191-12	172,065
FRANCKE, UTA	INTRACHROMOSOMAL GENE MAPPING IN MAN	5R01 GM21110-03	60,915
FRIEDKIN, MORRIS E.	NEW ANTAGONISTS OF AMETHOPTERIN-RESISTANT LEUKEMIA	5R01 CA11449-07	105,787
FRIEDKIN, MORRIS E.	NEW ANTAGONISTS OF AMETHOPTERIN-RESISTANT LEUKEMIA	5R01 CA11449-08	82,124
FRIEDMAN, WILLIAM F.	CARDIOVASCULAR EVALUATION OF INFANTS AND CHILDREN	5R01 HL17334-02	73,326
FRIEDMANN, THEODORE	PROTEINS IN ONCOGENIC VIRUSES: POLYOMA AND SV40	5R01 CA16115-03	82,377
FRONEK, ARNOST	SYSTEMIC AND LOCAL VASCULAR ADJUSTMENT IN SHOCK	3R01 HL12690-06S1	30,325
FRONEK, ARNOST	SYSTEMIC AND LOCAL VASCULAR ADJUSTMENT IN SHOCK	2R01 HL12690-07A1	43,207
FRONEK, ARNOST	NONINVASIVE DIAGNOSIS OF PERIPHERAL ARTERIAL DISEASE	1R01 HL18977-01	42,120
FRONEK, KITTY	THE SYMPATHETIC NERVOUS SYSTEM AND THE ARTERIAL WALL	5R01 HL16768-02	48,946
FUNG, YUAN-CHENG B.	CONTINUUM MECHANICS IN BIOPHYSICS	5R01 HL12494-08	44,238
GALAMBOS, ROBERT	BRAIN STEM AUDIOMETRY IN INFANTS AND CHILDREN	5R01 NS11747-02	39,310
GARDNER, ROBERT S.	MECHANISMS OF THYROID HORMONE ACTION	7R01 AM19815-01	10,047
GEIDUSCHEK, E PETER	STUDIES ON NUCLEIC ACIDS AND NUCLEOPROTEINS	2R01 GM18386-06	146,600
GEIDUSCHEK, E PETER	STUDIES ON NUCLEIC ACIDS AND NUCLEOPROTEINS	5R01 GM18386-07	143,633
GILL, GORDON N.	HORMONAL REGULATION OF CONTROL MECHANISMS	5R01 AM13149-09	90,929
GLUCK, LOUIS L.	BIOCHEMICAL DEVELOPMENT OF SURFACE ACTIVITY OF LUNG	5R01 HD04380-06	104,270
GOODMAN, MURRAY	SYNTHESIS AND STRUCTURE/FUNCTION OF PEPTIDE HORMONES	5R01 AM15410-06	64,970
GOODMAN, MURRAY	SYNTHESIS AND STRUCTURE/FUNCTION OF PEPTIDE HORMONES	5R01 AM15410-07	65,626
GOODMAN, MURRAY	CONFORMATION OF BIOPOLYMERS AND PEPTIDE HORMONES	5R01 GM18694-05	53,369
GOUJIAN, MEHRAN	STUDIES ON DNA SYNTHESIS	5R01 CA11705-07	102,754
GREEN, MELVIN H.	ONCOGENIC DNA VIRUS TRANSCRIPTION IN VITRO	5R01 CA16181-03	56,842
GROSS, STEPHEN R.	BIOCHEMISTRY OF INHERITED VARIATIONS IN DRUG RESPONSE	2R01 GM20412-04	57,174
GRUNDY, SCOTT M.	RESEARCHES ON CAUSES AND TREATMENT OF GALLSTONES	5R01 AM16667-03	49,426
GRUNDY, SCOTT M.	STUDY OF DIETS AND DRUGS AFFECTING LIPID METABOLISM	2R01 HL15556-04	58,285
GRUNDY, SCOTT M.	METABOLIC DEFECTS IN FAMILIAL HYPERLIPIDEMIAS	5R01 HL17471-02	88,305
HALASZ, NICHOLAS A.	STUDIES IN LUNG PRESERVATION	5R01 HL17944-02	49,702
HAMBURGER, ROBERT N.	MAST CELLS AND IGE IN ALLERGY AND HELMINTHIASIS	5R01 AI11779-02	41,454
HAMBURGER, ROBERT N.	MAST CELLS AND IGE IN ALLERGY AND HELMINTHIASIS	5R01 AI11779-03	32,770
HAMBURGER, ROBERT N.	DEVELOPMENT AND GENETICS OF IGE AND ALLERGY	5R01 HD06634-03	48,098
HAMMEL, HAROLD T.	THERMOREGULATORY AND OSMOREGULATORY RESPONSES	5R01 NS11704-03	44,111
HARDISON, WILLIAM G.	TAURINE METABOLISM AND BILE ACID CONJUGATION IN MAN	5R01 AM18289-03	15,785
HARPER, ELVIN	INVASIVE TUMOR CELL COLLAGENASE	1R01 CA18377-01	53,030
HARRISON, WALTER K.	CARDIAC FUNCTION AND PROGNOSIS OF CORONARY DISEASE	7R01 HL20372-01	33,833
HARRISON, WALTER K.	CARDIOVASCULAR AGING IN YOUNG MEN AND WOMEN	7R01 HL20373-01	36,903



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
HARRISON, WALTER K.	MYOCARDIAL FUNCTION RISK FACTORS, AND FUTURE CHD	7R01 HL20374-01	81,534
HARTLINE, DANIEL K.	QUANTITATIVE STIMULATION OF SIMPLE NEURONAL NETS	1R01 NS13138-01	70,167
HAYASHI, MASAKI	SYNTHESIS OF INFECTIOUS BACTERIOPHAGE PARTICLES	5R01 GM12934-12	68,706
HAYASHI, MASAKI	IN VITRO DNA-DIRECTED SYNTHESIS OF NEURONAL PROTEIN	5R01 NS10111-05	44,546
HAYASHI, MASAKI	IN VITRO DNA-DIRECTED SYNTHESIS OF NEURONAL PROTEIN	5R01 NS10111-06	48,732
HELINSKI, DONALD R.	STRUCTURE AND GENETIC CONTROL OF COLICINES	5R01 AI07194-11	90,914
HOLLAND, JOHN J.	SYNTHESIS IN NORMAL, VIRUS-INFECTED, AND TUMOR CELLS	5R01 CA10802-09	126,801
HOSTETLER, KARL Y.	MEMBRANE PHOSPHOLIPID METABOLISM IN TUMORS	5R01 CA15694-03	23,586
HOUGIE, CECIL	MOLECULAR BASIS OF V WILLEBRAND'S DISEASE & HEMOPHILIA	5R01 HL15230-03	78,632
HOUGIE, CECIL	STUDIES ON THE PASSVOY FACTOR	1R01 HL19272-01	33,490
HOWELL, STEPHEN H.	INHIBITORY AGENT AND MUTANT EFFECTS ON THE CELL CYCLE	5R01 GM21579-02	23,220
IGNELZI, RONALD J.	ELECTRICAL ANALGESIA FOR INTRACTABLE PAIN	1R18 CA18866-01	70,903
INTAGLIETTA, MARCOS	BIOENGINEERING ANALYSIS OF MICROVASCULAR FUNCTION	5R01 HL12493-08	86,928
ITANO, HARVEY A.	STUDIES IN MOLECULAR HEMATOLOGY	2R01 AM14982-06	83,124
JONES, KENNETH L.	GENETIC DWARFS: A STUDY OF CELLULAR GROWTH DEFECTS	1R01 HD10038-01	47,161
JONES, KENNETH L.	HORMONE-MEDIATED DIFFERENTIATION OF CULTURED LUNG CELLS	5R01 HL17565-02	29,663
JONES, OLIVER W. JR.	BIOCHEMISTRY OF CHROMOSOME FUNCTION IN MAN	5R01 CA13639-05	51,273
JUDD, HOWARD L.	ESTROGEN AND ANDROGEN STUDIES IN ENDOMETRIAL CANCER	1R01 CA18525-01	69,702
KAGNOFF, MARTIN F.	GASTROINTESTINAL LYMPHOID CELL FUNCTIONS	5R01 AM17276-03	58,056
KAMEN, MARTIN D.	MOLECULAR BASIS FOR FUNCTION OF BACTERIAL METALLOPROTEIN	5R01 GM18528-15	114,078
KAMEN, MARTIN D.	MOLECULAR BASIS FOR FUNCTION OF BACTERIAL METALLOPROTEIN	2R01 GM18528-16	116,100
KAPLAN, NATHAN O.	STUDIES ON COENZYMES AND NUCLEIC ACID METABOLISM	2R01 CA11683-07	145,411
KAPLAN, NATHAN O.	SPECIAL RESOURCE FOR NMR AND MASS SPECTROMETRY	5P41 RR00708-02	113,430
KEARNS, DAVID R.	STRUCTURAL STUDIES OF RNA	7R01 GM22969-01	116,676
KNIAZEFF, ALEXIS J.	CARCINOGENESIS OF COLON CANCER IN ORGAN CULTURE	5R26 CA17126-02	60,122
KRAUT, JOSEPH	THE CRYSTAL STRUCTURE OF DIHYDROFOLATE REDUCTASE	5R01 CA17374-02	77,165
KRAUT, JOSEPH	CRYSTALLOGRAPHIC STUDY OF BIOLOGICAL MOLECULES	5R01 GM10928-14	91,612
KRAUT, JOSEPH	IMPLEMENTATION OF A LABORATORY AUTOMATION SYSTEM	5P41 RR00757-04	175,833
KRAUT, JOSEPH	IMPLEMENTATION OF A LABORATORY AUTOMATION SYSTEM	5P41 RR00757-05	172,538
KUNG, FAITH H.	COOPERATIVE STUDY OF ACUTE LEUKEMIA	5R10 CA11789-07	89,946
KYTE, JACK E.	MOLECULAR STRUCTURE OF THE QUABAIN SENSITIVE ATPASE	5R01 HL17879-02	44,857
LAMPERT, PETER W.	FINE STRUCTURAL PATHOLOGY OF MYELIN	2R01 NS09053-07	43,014
LAMPERT, PETER W.	PATHOLOGY OF CHOROID PLEXUS	5R01 NS11739-02	44,820
LASSER, ELLIOTT C.	THE TISSUE PARTITIONS AND TOXICITY OF CONTRAST MEDIA	2P01 GM16593-08	212,890
LASSER, ELLIOTT C.	COMPLEMENT, COAGULATION, IN CONTRAST MEDIA REACTIONS	1R01 GM22794-01	153,203
LONG, DAVID M.	NEW APPLICATIONS OF RADIOPAQUE FLUOROCARBONS	5R01 GM20998-03	88,774
LONG, DAVID M.	NEW APPLICATIONS OF RADIOPAQUE FLUOROCARBONS	5R01 GM20998-04	103,694
LOOMIS, WILLIAM F.	GENETIC REGULATION OF DEVELOPMENT IN DICTYOSTELIUM	2R01 GM19543-04A1	63,052
MACLEOD, DONALD I.	RETINAL MECHANISMS IN HUMAN VISION	1R01 EY01711-01	49,883
MASOUREDIS, SERAFEIM P.	RH COMPLEX OF RED CELLS	5R01 HL12994-07	98,366
MASOUREDIS, SERAFEIM P.	RH COMPLEX OF RED CELLS	5R01 HL12994-08	103,061
MASUI, HIDEO	CELLULAR FUNCTION AND PROLIFERATION IN CANCER	5R01 CA12370-06	53,343
MC MORRIS, TREVOR C.	NEW BIOLOGICALLY ACTIVE STEROIDS AND TERPENES	5R01 GM21350-03	51,409
MELUSH, MARIAN E.	HOST RESPONSE TO STAPHYLOCOCCAL EPIDERMOLYTIC TOXIN	1R01 AI14090-01	49,861
MENDELSON, JOHN	CONTROL OF IMMUNE AND MALIGNANT LYMPHOCYTE GROWTH	5R01 CA11971-06	71,702
MENDELSON, JOHN	SUPPORT FOR CLINICAL CANCER EDUCATION	1R25 CA19087-01	104,925
MENDELSON, JOHN	PHARMACOLOGIC CONTROL OF LEUKOCYTE CYCLIC NUCLEOTIDES	1R01 GM22637-01A1	42,341
MILLER, ARNOLD L.	I-CELL DISEASE AND MENTAL RETARDATION	5R01 NS12138-02	24,077
MINH, VU-DINH	ROLE OF THE DIAPHRAGM IN REGIONAL LUNG MECHANICS	1R01 HL18223-01A1	32,325
MIYAI, KATSUMI	BILE ACIDS AND HEPATIC SUBCELLULAR PATHOLOGY	3R01 AM16110-03S1	4,453
MIYAI, KATSUMI	BILE ACIDS AND HEPATIC SUBCELLULAR PATHOLOGY	2R01 AM16110-04	53,189
MOORE, ROBERT Y.	HISTOCHEMICAL STUDIES OF BIOGENIC AMINES IN BRAIN	5R01 NS12080-02	61,549
MOORE, ROBERT Y.	HISTOCHEMICAL STUDIES OF BIOGENIC AMINES IN BRAIN	5R01 NS12080-03	61,479
MOORE, ROBERT Y.	CENTRAL MECHANISMS IN DIURNAL RHYTHM REGULATION	5R01 NS12267-02	45,860
MOORE, ROBERT Y.	CENTRAL MECHANISMS IN DIURNAL RHYTHM REGULATION	2R01 NS12267-03	83,536
MOSER, KENNETH M.	SUPPORT FOR PULMONARY DISEASE CENTER	3P50 HL14169-05S2	355,998
MOXLEY, JOHN H. III	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00827-02	586,827
MOXLEY, JOHN H. III	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05665-09	261,305
NINNEMANN, JOHN L.	CANCER ASSOCIATED IMMUNOSUPPRESSIVE SERUM PROTEINS	1R01 CA19320-01	41,434
NINNEMANN, JOHN L.	IMMUNE CONSEQUENCES OF THERMAL INJURY	1R01 GM23128-01	44,672



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
NYHAN, WILLIAM L.	AMINO ACID INTERRELATIONS IN HUMAN METABOLIC DISEASE	5R01 HD04608-08	94,963
O'BRIEN, JOHN S.	MOLECULAR BASIS OF CEREBRAL DEGENERATION	5R01 NS08682-08	95,204
ORLOFF, MARSHALL J.	STUDIES OF PANCREAS TRANSPLANTATION	5R01 AM17581-03	90,193
ORLOFF, MARSHALL J.	PRIMARY BREAST CANCER THERAPY GROUP	5R10 CA12240-05	32,249
OXMAN, MICHAEL N.	VIRAL CYTOPATHOGENICITY: MECHANISMS AND APPLICATIONS	7R01 AI13872-01	79,504
PASTORE, EDWARD J.	ANTIFOLATE MECHANISMS STUDIED BY NMR SPECTROSCOPY	1R01 CA19094-01	33,912
PESKIN, GERALD W.	CIRRHOSIS, ASCITES, AND THE HEPATIC CIRCULATION	5R01 AM15986-05	66,465
PETERS, RICHARD M.	COMPUTER MONITORING OF SURGICAL PATIENTS	5R01 GM17284-07	196,970
PETERS, RICHARD M.	COMPUTER MONITORING OF SURGICAL PATIENTS	5R01 GM17284-08	219,758
PETERS, RICHARD M.	POST-TRAUMA LUNG MECHANICS AND FLUID EXCHANGE	2R01 HL13172-07	67,023
PETERS, RICHARD M.	POST-TRAUMA LUNG MECHANICS AND FLUID EXCHANGE	5R01 HL13172-08	69,555
PILCH, YOSEF H.	IMMUNOTHERAPY OF COLORECTAL CANCER WITH IMMUNE RNA	7R26 CA21664-01	111,039
PINTO, JOHN G.	MECHANICS OF THE PAPILLARY MUSCLE AND THE LEFT VENTRICLE	1R01 HL19460-01	43,456
PRICE, PAUL A.	CHEMICAL STUDIES ON PANCREATIC DEOXYRIBONUCLEASE	5R01 GM16603-08	59,797
PRINIZ, MORTON P.	ROLE OF ANGIOTENSINOGEN IN HYPERTENSION AND STROKE	5R01 HL15808-04	49,243
PRINIZ, MORTON P.	CONTROLLED INTRATISSUE RELEASE OF PROSTAGLANDINS	5R01 HL18259-02	45,390
RANNEY, HELEN M.	STUDIES OF THE PROPERTIES OF HEMOGLOBIN	5R01 AM17348-03	108,661
RANNEY, HELEN M.	STUDIES OF THE PROPERTIES OF HEMOGLOBIN	5R01 AM17348-04	114,285
REDELMAN, DOUGLAS D.	CELLULAR CONTRIBUTIONS TO IMMUNITY IN RABBITS	5R01 AI11780-03	53,014
ROBB, JAMES A.	MOLECULAR MECHANISMS OF VIRAL (SV40) CARCINOGENESIS	5R01 CA12472-05	46,218
ROBB, JAMES A.	MOLECULAR MECHANISMS OF NEUROTROPIC VIRUS DISEASE	5R01 NS12382-02	57,237
ROSENBLATT, RICHARD H.	RATES OF BIOCHEMICAL EVOLUTION: GENETICS OF FISH	1R01 GM22630-01	60,390
ROSENFELD, MICHAEL G.	CAMP AND HORMONAL REGULATION OF PROTEIN SYNTHESIS	5R01 AM18477-02	45,921
ROSS, JOHN, JR.	PHYSIOLOGY AND BIOCHEMISTRY OF CARDIOVASCULAR ADAPTATION	5P01 HL12373-08	1,133,735
ROSS, JOHN, JR.	STUDY OF ISCHEMIC HEART DISEASE	5P50 HL17682-02	1,236,214
ROTENBERG, MANUEL	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07011-11	180,849
SAIK, RICHARD P.	ANTRAL GASTRIN RELEASE AND THE G-CELL MASS	5R01 AM17960-02	39,908
SALTMAN, PAUL D.	STUDIES OF BIOLOGICAL TRANSPORT MECHANISMS	5R01 AM12386-09	94,192
SANDERS, TOMMY M.	CARDIOVASCULAR ADAPTATION TO STRESS	1R01 HL18560-01	74,320
SATO, GORDON H.	PROSTATIC HUMAN TUMORS IN CONDITIONED ANIMALS/CULTURE	5R26 CA15503-03	112,974
SATO, GORDON H.	ATHYMIC MICE FACILITY: USE IN HUMAN CANCER RESEARCH	1P30 CA18885-01	166,625
SATO, GORDON H.	HORMONE DEPENDENT TUMORS AND LOSS OF GROWTH REGULATION	5R01 GM17019-07	97,618
SCHAEFFLER, IMMO E.	GENETICS AND BIOCHEMISTRY OF SOMATIC CELLS	5R01 GM18835-05	62,759
SCHAEFFLER, IMMO E.	GENETICS AND BIOCHEMISTRY OF SOMATIC CELLS	5R01 GM18835-06	61,424
SCHNEIDER, JERRY A.	IN VITRO CHARACTERIZATION OF CYSTINOTIC VARIANTS	1R01 AM18434-01	70,766
SEEGMILLER, JARVIS E.	ARTHRITIS: INHERITED METABOLIC AND NUTRITIONAL CAUSES	5R01 AM13622-08	129,486
SELL, STEWART	THE ROLE OF RABBIT LYMPHOID CELLS IN TUMOR IMMUNITY	5R01 CA16136-02	46,005
SELL, STEWART	LYMPHOCYTES: GENE EXPRESSION AND ACTIVATION EVENTS	5R01 CA16367-03	44,006
SILVERSTON, ALLEN I.	NEURAL GEOMETRY AND INTEGRATION IN GANGLIA	5R01 NS09322-06	46,328
SILVERSTON, ALLEN I.	USE OF AN INTERACTIVE COMPUTER GRAPHIC TECHNIQUE	2R01 NS10629-04	53,717
SILVERSTON, ALLEN I.	USE OF AN INTERACTIVE COMPUTER GRAPHIC TECHNIQUE	5R01 NS10629-05	53,753
SHARMA, VIJAY S.	MECHANISM OF REACTIONS OF HEMOGLOBIN WITH LIGANDS	1R01 AM18781-01	29,187
SILVERMAN, NORMAN R.	LUNG CANCER: VIDEO DENSITOMETRY FOR MASS SCREENING	2R01 CA13683-04	55,069
SILVERMAN, NORMAN R.	LUNG CANCER: VIDEO DENSITOMETRY FOR MASS SCREENING	5R01 CA13683-05	41,965
SILVERMAN, NORMAN R.	PHYSIOLOGIC DATA ACQUISITION FROM MEDICAL FLUOROSCOPY	5R01 HL13932-05	68,595
SIMON, MELVIN I.	BACTERIAL MOTILITY: MECHANISM & ROLE IN INFECTION	1R01 AI13008-01	41,194
SINGER, S JONATHAN	THE STRUCTURE OF ANTIBODY MOLECULES AND CELL MEMBRANES	5R01 AI06659-12	86,769
SINGER, S JONATHAN	MOLECULAR APPROACHES TO CELL ULTRASTRUCTURE	5R01 GM15971-09	126,440
SMITH, DOUGLAS W.	DNA REPLICATION IN E. COLI USING FOLDED CHROMOSOMES	1R01 GM21978-01A1	88,740
SOVAK, MILOS	DEVELOPMENT OF NEW RADIOGRAPHIC CONTRAST MEDIA	1R01 GM22911-01	226,054
SPITZER, NICHOLAS C.	ANATOMY AND PHYSIOLOGY OF EMBRYONIC SENSORY NEURONS	5R01 NS11311-03	37,737
STEINBERG, DANIEL	SUPPORT FOR CENTER OF RESEARCH ON ARTERIOSCLEROSIS	3P50 HL14197-05S1	269,917
STEINBERG, DANIEL	STUDIES ON THE METABOLIC BASIS OF INHERITED LIPIDOSES	5R01 NS08246-08	75,179
STERN, HERBERT	PROGRAM FOR DEVELOPMENTAL BIOLOGY	5P01 HD03015-10	142,210
STONE, RICHARD A.	HUMAN DOPAMINE-BETA-HYDROXYLASE	5R01 HL18095-02	25,987
STULL, JAMES T.	ROLE OF PHOSPHOPROTEIN IN CARDIAC INOTROPIC RESPONSES	5R01 HL18170-02	46,445
TAYLOR, PALMER W.	KINETIC STUDIES ON DRUG-PROTEIN COMPLEX FORMATION	5R01 GM18360-05	80,025
TAYLOR, SUSAN S.	PROTEIN KINASE: PRIMARY STRUCTURE AND C-AMP INTERACTION	5R01 GM19301-05	61,727
TAYLOR, SUSAN S.	EVOLUTION OF LACTATE DEHYDROGENASES	1R01 GM22452-01	33,283
TRAYLOR, TEDDY G.	MECHANISMS OF REACTIONS OF OXYGEN WITH HEME PROTEINS	2R01 HL13581-09	77,531

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
VARON, SILVIO S.....	HUMORAL AND CELLULAR INFLUENCES ON NEURAL CELLS.....	5R01 NS07606-08	104,966
VARON, SILVIO S.....	SEPARATION OF VIABLE NEURONS AND NEUROGLIAL CELLS.....	1R01 NS12893-01	65,301
VOLCANI, BENJAMIN E.....	BIOCHEMICAL STUDIES ON SILICEOUS SKELETAL FORMATION.....	5R01 GM08229-16	123,934
WEST, JOHN B.....	PHYSIOLOGICAL BASIS OF PULMONARY DISEASE.....	5P01 HL17731-02	211,757
WHEELER, HENRY O.....	BILE PRODUCTION.....	5R01 AM13097-09	58,850
WILLS, CHRISTOPHER J.....	GENETIC VARIABILITY AT THE BIOCHEMICAL LEVEL.....	5R01 GM19967-04	48,476
WILSON, DORIS B.....	CEREBROVASCULAR RESPONSE TO EMBRYONIC OVERGROWTH.....	1R01 HD09562-01	68,022
XUONG, NGUYEN-HUU.....	A COMPUTER CONTROLLED MULTIREFLECTION DIFFRACTOMETER.....	3R01 GM20102-03S1	10,971
XUONG, NGUYEN-HUU.....	A COMPUTER CONTROLLED MULTIREFLECTION DIFFRACTOMETER.....	2R01 GM20102-04	140,078
XUONG, NGUYEN-HUU.....	AUTOMATIC ANALYSIS OF 2-DIMENSIONAL ELECTROPHEROGRAMS.....	1R01 GM22940-01	69,905
YEN, SAMUEL S.....	NEUROENDOCRINE CONTROL OF THE ADENOHYPHYSIS.....	1R01 HD09728-01	66,625
YGUERABIDE, JUAN.....	DYNAMICS AND FUNCTION OF CHROMATIN SUBUNIT STRUCTURE.....	1R01 GM22786-01	56,068
YOU DIM, SAID.....	INDUCTION OF NONSPECIFIC RESISTANCE TO SYNGENEIC TUMORS.....	5R01 CA15240-03	56,766
YOU DIM, SAID.....	NONSPECIFIC DESTRUCTION OF TUMOR CELLS IN VITRO.....	5R01 CA17299-02	13,420
ZIMM, BRUNO H.....	NUCLEIC ACIDS AND CHROMOSOMAL DNA.....	5R01 ML11916-13	47,087
ZWAIFLER, NATHAN J.....	SYNOVIAL TISSUES IN RHEUMATOID ARTHRITIS.....	2R01 AM14916-07	100,892
ZWEIFACH, BENJAMIN W.....	STRUCTURE AND FUNCTION OF MICROCIRCULATION.....	2R01 HL10881-10	172,887
ZWEIFACH, BENJAMIN W.....	STRUCTURE AND FUNCTION OF MICROCIRCULATION.....	5R01 HL10881-11	173,874
ZWEIFACH, BENJAMIN W.....	MICROCIRCULATION OF PATIENTS WITH DIABETES MELLITUS.....	1R01 HL20420-01	76,964
ORGANIZATION TOTAL	225	20,294,674	
<b>LOMA LINDA</b>			
<b>LOMA LINDA UNIVERSITY ZIP CODE 92354</b>			
EVANS, HARRISON S.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05352-15	78,246
GILBERT, RAYMOND D.....	ADAPTATIONS OF THE FETAL CARDIOVASCULAR SYSTEM.....	1R01 HD10029-01	66,325
GODFREY, THOMAS E.....	COOPERATIVE STUDY OF CANCER.....	3R10 CA14568-03S1	18,412
GODFREY, THOMAS E.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17948-02	67,524
GUSSECK, DAVID J.....	REGULATION OF PLACENTAL PROTEIN HORMONE SYNTHESIS.....	1R01 HD09440-01A1	106,885
KUZMA, JAN W.....	EPIDEMIOLOGY OF SDA CANCER MORTALITY, 20-YEAR FOLLOW-UP.....	5R01 CA18186-02	50,625
LONGO, LAWRENCE D.....	PLACENTAL GAS EXCHANGE AND FETAL OXYGENATION.....	5R01 HD03807-08	148,849
NEILSEN, IVAN R.....	DEVELOPMENT OF BIOMEDICAL COMPUTATION FACILITY.....	5P41 RR00276-11	259,294
NEILSEN, IVAN R.....	DEVELOPMENT OF BIOMEDICAL COMPUTATION FACILITY.....	5P41 RR00276-12	192,399
PHILLIPS, ROLAND L.....	EPIDEMIOLOGY OF CANCER IN A LOW-RISK GROUP.....	5R01 CA14703-03	426,316
PHILLIPS, ROLAND L.....	FACTORS IN BLOOD PRESSURE LEVELS OF CHILDREN.....	1R01 HL20005-01	319,609
POWER, GORDON G.....	BLOOD FLOW AND GAS EXCHANGE IN THE PLACENTA AND LUNGS.....	5R01 HL15655-03	57,086
SMITH, LOUIS L.....	VASCULAR REACTIVITY IN SURGICAL CARE.....	5R01 HL04639-17	45,283
ORGANIZATION TOTAL	13	1,836,853	
<b>LONG BEACH</b>			
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE UNIVERSITY, LONG BEACH ZIP CODE 90840</b>			
MARICICH, TOM J.....	POTENTIAL CARCINOSTATIC SULFINYL DERIVATIVES.....	5R01 CA18838-02	33,263
ORGANIZATION TOTAL	1	33,263	
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 90801</b>			
BROOK, JACK.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	3R10 CA14506-03S1	37,192
ORGANIZATION TOTAL	1	37,192	
<b>LOS ANGELES</b>			
<b>CALIFORNIA HOSPITAL MEDICAL CENTER ZIP CODE 90015</b>			
NOLAN, JAMES.....	EXPLORATORY STUDY, RADIATION ONCOLOGY PROGRAM.....	1P20 CA17079-01	90,000
ORGANIZATION TOTAL	1	90,000	
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE UNIVERSITY, LOS ANGELES ZIP CODE 90032</b>			
BROWN, COSTELLO L.....	NEGATIVE ION STUDIES OF BIOORGANIC MOLECULES.....	5R01 GM20793-03	32,691
FERGUSON, LLOYD N.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07152-02	27,278
FERGUSON, LLOYD N.....	MINORITY STUDENT TRAINING FOR BIOMEDICAL RESEARCH.....	5S06 RR08101-04	278,553

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
GOLDWHITE, HAROLD.....	HETEROCYCLIC COMPOUNDS CONTAINING PHOSPHORUS.....	2R01 CA07182-13	37,213
GOLDWHITE, HAROLD.....	HETEROCYCLIC COMPOUNDS CONTAINING PHOSPHORUS.....	5R01 CA07182-14	40,240
ONAK, THOMAS P.....	BIOLOGICALLY ACTIVE SMALL CAGE BORON DERIVATIVES.....	5R01 CA12128-05	30,844
ORGANIZATION TOTAL	6 446,819		
<b>CEDARS-SINAI MEDICAL CENTER ZIP CODE 90048</b>			
BRAUNSTEIN, GLENN D.....	IMMUNODIAGNOSIS OF CANCER WITH CHORIONIC GONADOTROPIN.....	5R01 CA18362-02	49,743
CORDAY, ELIOT.....	OPTIMIZATION DIASTOLIC AUGMENTATION AND SYSTOLIC SINK.....	5R01 HL14644-04	79,485
GATTI, RICHARD A.....	MLR LOCUS TYPING OF CANCER PATIENTS.....	1R01 CA18892-01	90,521
KATZ, JOSEPH.....	PATHWAYS OF GLUCOSE METABOLISM AND HYDROGEN TRANSPORT.....	5R01 AM12604-08	91,115
KATZ, JOSEPH.....	METABOLISM & REDUCING EQUIVALENTS IN ASCITES TUMOR.....	5R01 CA15735-03	11,821
KLINENBERG, JAMES R.....	URICOSURIC DRUGS: MECHANISMS OF ACTION.....	5R01 AM18261-02	75,011
RUBENSTEIN, PAUL.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05468-14	105,524
SCHOENFELD, LESLIE J.....	HEPATIC AND BILIARY ALTERATIONS IN CHOLELITHIASIS.....	5R01 AM15631-05	72,058
SCHOENFELD, LESLIE J.....	HEPATIC AND BILIARY ALTERATIONS IN CHOLELITHIASIS.....	5R01 AM15631-06	79,534
SWAMINATHAN, NARAYANASAMI.....	CHEMISTRY OF PLACENTAL AND TUMOR CHORIOGONADOTROPINS.....	1R01 CA19392-01	53,642
SWAN, HAROLD J.....	THE PHYSIOLOGICAL CONSEQUENCES OF CARDIAC ISCHEMIA.....	5P01 HL15834-04	301,865
SWAN, HAROLD J.....	ISCHEMIC HEART DISEASE SPECIALIZED CENTER OF RESEARCH.....	5P50 HL17651-02	1,006,126
ORGANIZATION TOTAL	12 2,016,445		
<b>CHARLES R. DREW POSTGRADUATE MEDICAL SCHOOL ZIP CODE 90059</b>			
ALFRED, LAWRENCE J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR05780-01	56,727
ALFRED, LAWRENCE J.....	MULTINSTITUTIONAL BIOMEDICAL RESEARCH AND TRAINING.....	5S06 RR08140-02	300,527
ALFRED, LAWRENCE J.....	MULTINSTITUTIONAL BIOMEDICAL RESEARCH AND TRAINING.....	5S06 RR08140-03	351,681
GREENBERG, ROBERT E.....	GENETIC HETEROGENEITY OF HYPERTENSION.....	5R01 HL15857-03	80,720
ORGANIZATION TOTAL	4 789,655		
<b>CHILDREN'S HOSPITAL OF LOS ANGELES ZIP CODE 90027</b>			
BENEDICT, WILLIAM F.....	MECHANISM OF MALIGNANT TRANSFORMATION OF DNA INHIBITORS.....	2R01 CA14226-04	71,460
BENEDICT, WILLIAM F.....	CYTOGENETIC DIAGNOSIS AND ETIOLOGY OF HUMAN CANCER.....	5R01 CA15039-03	45,825
DOBSON, JAMES C.....	STUDY OF DIET DISCONTINUATION IN PKU CHILDREN.....	5R01 HD09543-02	106,128
DONNELL, GEORGE N.....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.....	5M01 RR00886-14	291,860
DUKES, PETER P.....	MOLECULAR BIOLOGY OF ERYTHROID CELL DIFFERENTIATION.....	5R01 AM16999-04	43,896
DUKES, PETER P.....	PURIFICATION OF HUMAN ERYTHROPOIETIN FOR RESEARCH USE.....	5R01 HL10880-10	71,403
DUKES, PETER P.....	PURIFICATION OF HUMAN ERYTHROPOIETIN FOR RESEARCH USE.....	5R01 HL10880-11	75,934
HIGGINS, GUSSIE R.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	5R10 CA02649-20	229,338
MC ALLISTER, ROBERT M.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05469-14	88,460
MOMPARLER, RICHARD.....	PHARMACOLOGY OF AN ANTILEUKEMIC AGENT 5-AZADEOXYCYTIDINE.....	1R01 CA19696-01	60,117
ORGANIZATION TOTAL	10 1,084,421		
<b>ESTELLE DOWNEY EYE FOUNDATION ZIP CODE 90033</b>			
NESBURN, ANTHONY B.....	HERPES SIMPLEX OF THE EYE: PATHOGENESIS AND TREATMENT.....	5R01 EY00858-03	119,442
NESBURN, ANTHONY B.....	HERPES SIMPLEX OF THE EYE: PATHOGENESIS AND TREATMENT.....	2R01 EY00858-04	139,778
OGDEN, THOMAS E.....	A STUDY OF STRUCTURE AND FUNCTION OF RETINAL NEURONES.....	5R01 EY01671-02	50,178
OGDEN, THOMAS E.....	NONLINEAR ANALYSIS OF RETINAL POTENTIALS.....	1R01 EY01775-01	48,374
ORGANIZATION TOTAL	4 357,772		
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY-UNIV OF SO CALIFORNIA MED CTR ZIP CODE 90033</b>			
BERNSTEIN, SOL.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05466-10	24,951
DI SAIA, PHILIP J.....	GYNECOLOGICAL ONCOLOGY GROUP.....	2R10 CA13641-05	83,207
FRASHER, WALLACE G, JR.....	QUANTITATION OF FLOW AND SOLUTE FLUX IN MICROVESSELS.....	2R01 HL11153-10A1	40,946
MARTIN, CHESTER B, JR.....	FETAL PHYSIOLOGY AND METABOLISM IN PRIMATES.....	1R01 HD09686-01	94,760
MARTIN, CHESTER B, JR.....	FETAL PHYSIOLOGY AND METABOLISM IN PRIMATES.....	5R01 HD09686-02	86,646
SOBIN, SIDNEY S.....	STUDIES IN VASCULAR PHYSIOLOGY.....	5R01 HL11152-10	80,104
SOBIN, SIDNEY S.....	STUDIES IN VASCULAR PHYSIOLOGY.....	5R01 HL11152-11	84,853
ORGANIZATION TOTAL	7 495,467		
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—MARTIN LUTHER KING, JR. GENERAL HOSPITAL ZIP CODE 90059</b>			
SATCHER, DAVID.....	A COMPREHENSIVE HOSPITAL-COMMUNITY SICKLE CELL CENTER.....	5P60 HL15997-04	381,437
ORGANIZATION TOTAL	1 381,437		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
<b>MOUNT ST. MARY'S COLLEGE</b>	<b>ZIP CODE 90049</b>		
LEAHY, SISTER MARY GERALD.....	REPRODUCTIVE PHYSIOLOGY OF MOSQUITOES AND TICKS.....	5R01 AI11664-02	24,357
LEAHY, SISTER MARY GERALD.....	REPRODUCTIVE PHYSIOLOGY OF MOSQUITOES AND TICKS.....	5R01 AI11664-03	25,716
ORGANIZATION TOTAL	2 50,073		
<b>OCCIDENTAL COLLEGE</b>	<b>ZIP CODE 90041</b>		
MAYS, LAURA L.....	RELATION OF TRNA TO PROTEIN ERRORS IN AGING RAT LIVER.....	5R01 AG00479-02	34,482
ORGANIZATION TOTAL	1 34,482		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES</b>	<b>ZIP CODE 90024</b>		
ADAMS, FORREST H.....	RESPIRATORY DISTRESS SYNDROME IN ANIMALS.....	2R01 HD06341-03	66,187
ADINOLFI, ANTHONY M.....	ULTRASTRUCTURAL STUDIES OF DEVELOPING CAUDATE NUCLEUS.....	5R01 NS11932-02	42,929
ARTHUR, RANSOM J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05756-03	222,868
ASH, LAWRENCE R.....	DEVELOPMENT OF LABORATORY MODELS IN FILARIASIS.....	2R22 AI10250-06	79,076
ASSALI, NICHOLAS S.....	FETAL AND NEONATAL CARDIOVASCULAR FUNCTIONS.....	2R01 HL10755-22	103,935
ASSALI, NICHOLAS S.....	FETAL AND NEONATAL CARDIOVASCULAR FUNCTIONS.....	5R01 HL10755-23	107,914
ATKINSON, DANIEL E.....	ENZYME-EFFECTOR INTERACTIONS AND METABOLIC REGULATION.....	2R01 AM09863-11	101,190
AUSTIN, GARTH E.....	PATHOGENESIS OF PRIMARY HEPATOCELLULAR CARCINOMAS.....	1R01 CA19624-01	66,522
BAKER, NOME.....	FACTORS CONTROLLING LIPOGENIC ACTIVATION, INACTIVATION.....	2R01 AM16673-04	39,135
BAKER, NOME.....	LIPID TRANSPORT, SYNTHESIS AND METABOLISM IN CANCERS.....	5R01 CA15813-03	40,312
BALUDA, MARCEL A.....	TUMOR INDUCTION BY AVIAN MYELOBLASTOSIS VIRUS.....	5R01 CA10197-10	146,350
BARR, ALLAN R.....	CYTOPLASMIC INCOMPATIBILITY FOR FILARIASIS CONTROL.....	2R22 AI11847-09	67,715
BELKIN, JOHN N.....	MOSQUITOES OF MIDDLE AMERICA.....	5R01 AI04379-15	67,025
BELLVILLE, J WELDON.....	DYNAMIC ISOLATION STUDIES OF CONTROL OF RESPIRATION.....	5R01 HL15659-03	83,564
BERKNER, LUTZ K.....	FERTILITY AND EXTENDED FAMILY STRUCTURE.....	1R01 HD09749-01	31,168
BEVAN, JOHN A.....	MORPHOPHARMACOLOGY OF VASCULAR ADRENERGIC TRANSMISSION.....	5R01 HL08359-12	56,135
BEVAN, JOHN A.....	CEREBRAL ARTERIAL REACTIVITY AND CEREBRAL VASOSPASM.....	5R01 HL15805-04	79,428
BILLING, RONALD J.....	SERUM HLA ANTIGENS.....	5R01 AI2366-02	54,260
BLAND, WILLIAM H.....	USE OF RADIOISOTOPES FOR DETECTION OF COLONIC TUMORS.....	3R26 CA15259-03S1	14,710
BLOCK, JEROME B.....	SUPPORT FOR CLINICAL CANCER EDUCATION.....	1R25 CA18861-01	154,484
BOK, DEAN.....	ELECTRON MICROSCOPE AUTORADIOGRAPHY OF OCULAR TISSUES.....	5R01 EY04444-08	31,944
BONAVIDA, BENJAMIN.....	MIXED LEUKOCYTE TUMOR REACTION IN SYNGENEIC SYSTEMS.....	1R01 CA19753-01	46,970
BOYER, PAUL D.....	BIOLOGICAL ENERGY TRANSDUCING MECHANISMS.....	5R01 GM11094-14	110,769
BRESLOW, LESTER.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05482-15	52,275
BRINKMAN, CHARLES R, III.....	RENAL HYPERTENSION IN PREGNANCY.....	5R01 HL13634-06	66,372
BROWN, JOSIAH.....	ENDOCRINE FUNCTION OF TRANSPLANTED FETAL PANCREAS.....	5R01 AM17980-02	60,662
BROWN, JOSIAH.....	DIABETIC PREGNANCY FETAL ANOMALIES: CAUSE, PREVENTION.....	5R01 HD09409-02	55,337
BROWN, W JANN.....	DEVELOPMENTAL BIOLOGY IN MENTAL RETARDATION.....	2P01 HD05615-06	510,633
BROWN, W JANN.....	STRUCTURE OF SEIZURE SENSITIVE HUMAN HIPPOCAMPUS.....	5R01 NS12054-02	13,812
BRUNK, CLIFFORD F.....	MOLECULAR EVENTS LEADING TO CELLULAR DIFFERENTIATION.....	1R01 GM28883-01	53,343
BUCHWALD, JENNIFER S.....	RESPONSE PLASTICITY DURING INCREASED SYNAPTIC USE.....	5R01 NS05437-11	67,381
BUCHWALD, NATHANIEL A.....	NEUROPHYSIOLOGY & NEUROPSYCHOLOGY IN MENTAL RETARDATION.....	5P01 HD05958-05	68,077
BUCHWALD, NATHANIEL A.....	NEUROPHYSIOLOGY & NEUROPSYCHOLOGY IN MENTAL RETARDATION.....	2P01 HD05958-06	424,205
BUCKBERG, GERALD D.....	SURGERY AND NON-OBSTRUCTIVE CORONARY INSUFFICIENCY.....	5R01 HL16292-03	267,032
BUTCHER, LARRY L.....	SUBSTANTIA NIGRA, ACETYLCHOLINESTERASE, AND BEHAVIOR.....	2R01 NS10928-02	52,299
CAMPBELL, JOHN H.....	REGULATORY FUNCTION OF THE REX GENE OF PHAGE LAMBDA.....	1R01 AI13089-01	55,009
CARLSLE, EDITH M.....	STUDY OF PHYSIOLOGICAL ROLE OF SILICON.....	5R01 AM16611-03	55,259
CARLSLE, EDITH M.....	STUDY OF PHYSIOLOGICAL ROLE OF SILICON.....	2R01 AM16611-04	56,485
CARNES, WILLIAM H.....	CARDIOVASCULAR STUDIES ON COPPER DEFICIENCY.....	5R01 HL12561-08	117,966
CARNES, WILLIAM H.....	CARDIOVASCULAR STUDIES ON COPPER DEFICIENCY.....	2R01 HL12561-09	70,950
CARSTEN, MARY E.....	CHEMISTRY & FUNCTION OF SMOOTH MUSCLE (UTERUS) PROTEIN.....	5R01 HD00010-13	91,114
CHAO, LI-PEN.....	STUDIES WITH PURIFIED CHOLINE ACETYLTRANSFERASE.....	5R01 NS11087-03	49,519
CHAPMAN, ORVILLE L.....	ORGANIC PHOTOCHEMISTRY.....	5R01 HD09279-02	47,534
CHAPMAN, ORVILLE L.....	ORGANIC PHOTOCHEMISTRY.....	5R01 HD09279-03	47,434
CHASE, MICHAEL H.....	STATE-DEPENDENT CONTROL OF SOMATIC REFLEX ACTIVITY.....	2R01 NS09999-03A1	79,716
CHERRICK, HENRY M.....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA18724-01	57,088
CHOPRA, INDER J.....	THYROID GLAND PHYSIOLOGY IN HEALTH AND DISEASE.....	5R01 AM16155-05	58,569
CLARK, WILLIAM R.....	CORE GRANT FOR PARVIN CANCER RESEARCH LABORATORIES.....	5P01 CA16163-02	107,234
CLARK, WILLIAM R.....	MECHANISMS OF DIFFERENTIATION OF T LYMPHOCYTES.....	5R01 HD06071-05	59,786



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
CLARKE, IAN C.	FRICTION AND WEAR OF PROSTHETIC BEARING MATERIALS	1R01 AM18988-01	68,491
CLINE, MARTIN J.	A NEW METHOD OF BONE MARROW CULTURE	5R01 AM18058-02	40,931
CLINE, MARTIN J.	A NEW METHOD OF BONE MARROW CULTURE	5R01 AM18058-03	43,531
CLINE, MARTIN J.	NORMAL AND MALIGNANT HEMATOPOIETIC CELL REPLICATION	5R01 CA15619-03	64,228
CLINE, MARTIN J.	A PROGRAM IN MEDICAL ONCOLOGY	5P01 CA15688-03	418,711
CODE, CHARLES F.	MOTOR AND ELECTRICAL ACTIVITY OF THE ALIMENTARY CANAL	5R01 AM18618-02	99,016
COLLIER, ROBERT J.	MOLECULAR MECHANISM OF PATHOGENICITY OF DIPHTERIA	5R01 AI07877-09	69,808
COOPER, EDWIN L.	ONTOGENY AND EVOLUTION OF IMMUNOCOMPETENT CELLS	5R01 HD09333-02	68,376
CRADDOCK, CHARLES G.	PHYSIOLOGY OF LEUKOCYTES IN DEFENSE AND DISEASE	5R01 CA11800-07	55,024
CRADDOCK, CHARLES G.	PHYSIOLOGY OF LEUKOCYTES IN DEFENSE AND DISEASE	5R01 CA11800-08	53,879
CRAM, DONALD J.	HOST MOLECULES THAT COMPLEX AND CATALYZE	5R01 GM12640-12	61,940
CRANDALL, PAUL H.	A CLINICAL RESEARCH PROGRAM FOR THE 'PARTIAL' EPILEPSIES	3P50 NS02808-15S1	3,487
CRANDALL, PAUL H.	A CLINICAL RESEARCH PROGRAM FOR THE 'PARTIAL' EPILEPSIES	5P50 NS02808-16	305,070
CRESICITELLI, FREDERICK	COMPARATIVE STUDIES OF THE VERTEBRATE RETINA	5R01 EY00100-18	35,944
DAVIDSON, MAYER B.	MECHANISM OF INSULIN ANTAGONISM	5R01 AM14702-06	56,721
DAYTON, SEYMOUR	METABOLISM OF ARTERIAL TISSUE IN ATHEROSCLEROSIS	5R01 HL03734-16	38,247
DAYTON, SEYMOUR	METABOLISM OF ARTERIAL TISSUE IN ATHEROSCLEROSIS	5R01 HL03734-17	40,685
DE KERNION, JEAN B.	CHEMOTHERAPY OF METASTATIC BLADDER CANCER	1R26 CA18501-01	87,154
DE KERNION, JEAN B.	CHEMOTHERAPY OF METASTATIC BLADDER CANCER	5R26 CA18501-02	54,002
DE VELLIS, JEAN S.	A ROUTINE DIAGNOSTIC TEST FOR MINIMAL HEART DAMAGE	1R01 HL18567-01	47,348
DETELS, ROGER	EPIDEMIOLOGIC STUDIES OF IMMUNE FACTORS IN MS	2R01 NS10186-04	539,602
DETELS, ROGER	EPIDEMIOLOGIC STUDIES OF IMMUNE FACTORS IN MS	5R01 NS10186-05	409,866
DI STEFANO, JOSEPH J, III	DYNAMICS OF THYROID HORMONE DISTRIBUTION AND METABOLISM	5R01 AM18668-02	33,858
DIAMOND, JARED M.	WATER TRANSPORT ACROSS EPITHELIAL MEMBRANES	5R01 GM14772-09	53,676
DIRKS, DONALD D.	BINAURAL HEARING	5R01 NS05873-11	39,649
DIRKS, DONALD D.	SUPRATHRESHOLD AUDITORY BEHAVIOR	2R01 NS09713-03	64,379
DIXON, ANDREW D.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05304-15	42,510
DIXON, WILFRID J.	MEDICAL DATA PROCESSING RESEARCH	5P41 RR00003-15	2,709,521
ECKERT, ROGER O.	BIOELECTRIC AND IONIC CONTROL OF CELL FUNCTION	5R01 NS08364-08	59,439
ECKERT, ROGER O.	BIOELECTRIC AND IONIC CONTROL OF CELL FUNCTION	5R01 NS08364-09	56,015
EDGERTON, ROBERT B.	THE COMMUNITY CONTEXT OF NORMALIZATION	1R01 HD09474-01	84,335
EDGERTON, V REGGIE	SIGNIFICANCE OF MUSCLE FIBER TYPES	5R01 NS10423-03	55,454
EDGERTON, V REGGIE	CHARACTERIZATION OF NON-NEUROGENIC MUSCULAR ATROPHY	5R01 NS11950-02	69,553
EDWARDS, PETER A.	CHOLESTEROL AND LIPOPROTEIN METABOLISM	1R01 HL19063-01	54,708
EISENBERG, DAVID S.	STRUCTURE AND ACTION OF MULTISUBUNIT ENZYMES	5R01 GM16925-08	100,830
EISENMAN, GEORGE	ION PERMEATION THROUGH CARRIERS, CHANNELS, AND NERVE	5R01 NS09931-07	52,491
ELLISON, GAYLORD D.	BEHAVIOR: STAGES OF RECOVERY AFTER MONOAMINE LESIONS	5R01 NS11846-02	31,943
ENGELMANN, FRANZ	PHYSIOLOGY OF FOOD STIMULATED GUT PROTEASES IN INSECTS	5R01 AI12878-02	55,787
ESCUETA, ANTONIO V.	THE EPILEPSIES: (NAOK) PUMP WITHIN BRAIN SYNAPSES	7R01 NS12953-01	29,452
ESCUETA, ANTONIO V.	THE EPILEPSIES: (NAOK) PUMP WITHIN BRAIN SYNAPSES	5R01 NS12953-02	14,225
ESTRIN, THELMA	COMPUTER SCIENCE & NEUROPHYSIOLOGY IN STUDY OF THE BRAIN	5R01 NS02501-15	147,620
EYMAN, RICHARD K.	PROGRAM FOR THE DEVELOPMENT OF THE MENTALLY RETARDED	2P01 HD05540-05	413,686
FAHEY, JOHN L.	IMMUNE FUNCTIONS AND CANCER	5P01 CA12800-05	562,182
FAHEY, JOHN L.	BLADDER CANCER: IMMUNOLOGY, IMMUNOTHERAPY & VIROLOGY	5R26 CA16880-03	446,997
FAREED, GEORGE C.	SIMIAN VIRUS 40 DNA REPLICATION AND TRANSFORMATION	7R01 CA20794-01	69,006
FESSLER, JOHN H.	MOLECULAR DEVELOPMENT OF COLLAGEN FIBERS	5R01 AM13748-08	70,193
FEMSTER, MONA E.	GLIAL CELL BIOCHEMISTRY IN DEVELOPING AND MATURE BRAIN	5R01 HD04575-07	67,819
FISHER, H KENNETH	DELIVERY OF PULMONARY SURFACTANT TO ALVEOLAR SURFACES	7R01 HL20825-01	45,020
FLUHARTY, ARVAN L.	DERMATAN SULFATE CATABOLISM	5R01 HD08855-02	59,935
FONKALSUD, ERIC W.	HEPATIC RETICULUM CELLS AS SURGICAL IMMUNE ADJUVANTS	5R01 AM16596-03	37,447
FONKALSUD, ERIC W.	EXPERIMENTAL AND CLINICAL LUNG TRANSPLANTATION STUDIES	3R01 HL14333-04S1	4,209
FOOS, ROBERT Y.	VITREORETINAL JUNCTURE	5R01 EY00725-05	40,357
FOOTE, CHRISTOPHER S.	PHOTOOXIDATION IN MODEL BIOLOGICAL SYSTEMS	5R01 GM20080-04	54,807
FOX, CHARLES F.	NEW APPROACHES TO RESEARCH ON TUMOR CELL SURFACES	1R13 CA18725-01	34,975
FOX, CHARLES F.	MEMBRANE STRUCTURE, FUNCTION, AND BIOGENESIS	2R01 GM18233-06	99,126
FOX, CHARLES F.	CONFERENCE ON CELL SHAPE AND SURFACE ARCHITECTURE	1R13 GM22770-01	9,684
FRANK, ROBERT G, JR.	ANATOMY AND PHYSIOLOGY IN 17TH CENTURY ENGLAND	5R01 LM02435-02	10,092
FROMKIN, VICTORIA A.	QUESTIONS ON THE PRODUCTION AND PERCEPTION OF SPEECH	5R01 NS12303-02	39,780
FULCO, ARMAND J.	UNSATURATED FATTY ACID BIOSYNTHESIS IN BACILLI	5R01 AI09829-07	38,980
FURSTMAN, LAWRENCE L.	FACIAL AFFERENTS WITH PARTICULAR REFERENCE TO PAIN	5R01 DE04249-02	48,021

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
GARCIA, JOHN	BEHAVIORAL AND NEURAL EFFECTS OF TOXICOSIS AND PAIN	5R01 NS11618-04	74,485
GERSCHENSON, LAZARO E	EFFECT OF ESTROGENS AND PROGESTOGENS ON CULTURE CELLS	5R01 CA12136-05	71,693
GILL, AYESHA E	GENETIC DIVERGENCE OF ISLAND MAMMALIAN POPULATIONS	5R01 GM22228-02	28,037
GITNICK, GARY L	PREVENTION OF POST TRANSFUSION CHRONIC LIVER DISEASE	5R01 AM17984-02	18,690
GITNICK, GARY L	PREVENTION OF POST TRANSFUSION CHRONIC LIVER DISEASE	5R01 AM17984-03	18,309
GOLDBERG, LOUIS J	STUDIES IN ORAL PHARYNGEAL REFLEXES	5R01 DE04166-08	51,867
GOLUB, SIDNEY H	LYMPHOCYTE SENSITIZATION TO TUMOR ANTIGENS IN VITRO	5R01 CA17013-02	49,934
GORBACH, SHERWOOD L	DIET AND ITS EFFECT ON ENZYMES LINKED TO COLON CANCER	5R26 CA17511-02	66,053
GORSKI, ROGER A	SEXUAL DIFFERENTIATION OF THE CONTROL OF FOOD INTAKE	5R01 AM18254-02	52,903
GORSKI, ROGER A	STUDIES ON THE OVARIAN-HYPOTHALAMIC-HYPOPHYSEAL AXIS	5R01 HD01182-14	98,747
GRALLA, JAY	REGULATION OF TRANSCRIPTION BY DNA-PROTEIN COMPLEXES	1R01 CA19941-01	53,471
GREENFIELD, MOSES A	IN VIVO BONE STUDY: USING ULTRASOUND, PHOTON ABSORPTION	5R01 GM22338-02	27,951
GRINNELL, ALAN D	FORMATION AND FUNCTION OF SYNAPSES	5R01 NS06232-11	47,744
GRINNELL, ALAN D	FORMATION AND FUNCTION OF SYNAPSES	5R01 NS06232-12	49,078
GROSSMAN, MORTON I	STUDIES ON GASTRIC PHYSIOLOGY	5R01 AM08354-12	28,907
GROSSMAN, MORTON I	PEPTIC ULCER CENTER	5P50 AM17328-03	1,062,386
GUSSEN, RUTH	HUMAN TEMPORAL BONE PATHOLOGY	5R01 NS06606-11	114,111
GUZE, LUCIEN B	PATHOGENESIS OF PYELONEPHRITIS	5R01 AI02257-18	55,528
GUZE, LUCIEN B	ROLE OF MYCOPLASMAS IN ARTHRITIS	5R01 AM17594-02	28,723
GUZE, LUCIEN B	ROLE OF MYCOPLASMAS IN ARTHRITIS	5R01 AM17594-03	35,763
HAGIWARA, SUSUMU	STUDIES IN MICRONEUROPHYSIOLOGY	5R01 NS09012-07	98,196
HAGIWARA, SUSUMU	STUDIES IN MICRONEUROPHYSIOLOGY	5R01 NS09012-08	97,772
HALL, MICHAEL O	THE BIOSYNTHESIS OF VISUAL PIGMENT RHODOPSIN	5R01 EY00046-07	78,381
HALPERN, RICHARD M	ACCESSIBLE METABOLIC PATHWAYS OF NEOPLASTIC CELLS	5R01 CA17332-02	54,923
HAYS, ESTHER F	DEVELOPMENT OF LYMPHOMA IN THE THYMUS	2R01 CA12386-04	39,937
HAYS, ESTHER F	STUDY OF COLONY-FORMING CELLS IN BONE MARROW	5R01 CA13666-04	47,629
HELLER, JORAM	RETINOL DELIVERY TO PIGMENT EPITHELIUM & NEURAL RETINA	2R01 EY00704-06	57,546
HERSHMAN, JEROME M	PLACENTAL THYROTROPINS: BIOCHEMISTRY AND PHYSIOLOGY	3R01 HD07181-03S1	17,567
HERSHMAN, JEROME M	PLACENTAL THYROTROPINS: BIOCHEMISTRY AND PHYSIOLOGY	2R01 HD07181-04	64,668
HILDEMAN, WILLIAM H	COMPARATIVE TRANSPLANTATION IMMUNOGENETICS	7R01 AI13870-01	87,586
HILDEMAN, WILLIAM H	MECHANISMS OF IMMUNOBLOCKING VERSUS TUMOR IMMUNITY	5R01 CA15788-03	68,173
HIRSCH, HILDE E	UPTAKE AND RELEASE OF DRUGS ENTRAPPED IN LIPOSOMES	5R01 GM22141-02	27,706
HONRUBIA, VICENTE	EXPERIMENTAL STUDIES ON COCHLEAR MECHANISMS	5R01 NS08193-08	58,394
HORWITZ, JOSEPH	BIOPHYSICAL AND BIOCHEMICAL STUDIES OF LENS PROTEINS	1R01 EY01622-01	68,640
HOWARD, BRUCE D	BIOCHEMICAL STUDIES OF SYNAPSES	1R01 NS12873-01	53,671
HOWARD, DEXTER H	PHYSIOLOGICAL STUDIES ON HISTOPLASMA CAPSULATUM	5R01 AI10478-05	60,411
JARMAKAN, JAY M	CARDIAC SURGERY, EFFECT ON HEART FUNCTION IN INFANTS	5R01 HL16329-04	76,352
JORDAN, JOHN M	VIRAL GENE FUNCTION IN MALIGNANT TRANSFORMATION	2R01 CA12794-04	91,728
JORDAN, JOHN M	VIRAL GENE FUNCTION IN MALIGNANT TRANSFORMATION	5R01 CA12794-05	56,208
JUNG, MICHAEL E	SYNTHESIS OF THE ANTICANCER AGENT, CROTEPOXIDE	5R01 CA18164-02	31,582
KALOYANIDES, GEORGE J	HUMORAL AND HEMODYNAMIC FACTORS IN SODIUM REGULATION	7R01 HL19137-01	96,560
KATZ, RONALD L	ACUPUNCTURE THERAPY: CLINICAL RESEARCH STUDIES	5R01 GM20821-02	53,448
KAUFMAN, JOSEPH J	EXPERIMENTS IN EXTRACORPOREAL RENAL PRESERVATION	5R01 AM18213-02	36,296
KIHARA, HAYATO	MENTAL RETARDATION-DEFECT IN HURLER'S SYNDROME	5R01 HD04331-06	60,827
KIHARA, HAYATO	STUDIES OF HUMAN ARYL SULFATASE A	5R01 NS09479-05	26,881
KIHARA, HAYATO	METACHROMATIC LEUKODYSTROPHY IN CULTURED CELL SYSTEMS	5R01 NS11665-03	90,183
KOLIN, ALEXANDER	DEVELOPMENT OF ELECTROMAGNETIC RHEOANGIOGRAPHY	5R01 HL17591-02	74,919
KORENMAN, STANLEY G	HORMONAL INTERACTIONS IN THE UTERUS	5R01 HD09285-02	56,159
KORENMAN, STANLEY G	HORMONAL INTERACTIONS IN THE UTERUS	5R01 HD09285-03	55,402
KRASNE, FRANKLIN B	ESCAPE BEHAVIOR: INTEGRATION AND PLASTICITY	5R01 NS08108-09	67,298
KRUGER, LAWRENCE	VISUAL PROJECTIONS OF VERTEBRATE MIDBRAIN	5R01 EY00571-12	62,717
KRUGER, LAWRENCE	COMPARATIVE STUDIES OF SOMATIC AFFERENT PROJECTION	2R01 NS05685-12	87,138
KWAN, CATHERINE N	THE PROCESSING OF RIBONUCLEIC ACID IN EUKARYOTIC CELLS	5R01 CA16913-03	42,290
LADEFOGED, PETER N	COMPUTERIZED RECOVERY OF ARTICULATIONS	5R01 NS09780-05	69,113
LAGASSE, LEO D	GROUP STUDY OF GYNCOLOGIC CANCER PATIENTS	2R10 CA13630-05	58,872
LAKE, JAMES A	SPATIAL ARRANGEMENT OF PROTEIN IN RIBOSOMAL SUBUNITS	7R01 GM24034-01	42,515
LASCCELLES, JUNE	REGULATION OF HEME AND HEMOPROTEIN SYNTHESIS	5R01 AM11148-10	26,666
LATIES, GEORGE G	MEMBRANE PERMEABILITY AS A REGULATORY ELEMENT	5R01 GM19807-04	46,782
LATIES, GEORGE G	MEMBRANE PERMEABILITY AS A REGULATORY ELEMENT	5R01 GM19807-05	52,841
LATTA, HARRISON	RENAL PATHOLOGY STUDIED WITH ELECTRON MICROSCOPY	5R01 AM06074-18	71,958

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
LEHRER, ROBERT I.	NON-OXIDATIVE FUNGICIDAL MECHANISMS OF HUMAN LEUKOCYTES.	5R01 AI12171-02	56,546
LEHRER, ROBERT I.	NON-OXIDATIVE FUNGICIDAL MECHANISMS OF HUMAN LEUKOCYTES.	5R01 AI12171-03	47,361
LENGVEL, JUDITH A.	TRANSCRIPTION IN DROSOPHILA CULTURED CELLS AND EMBRYOS	1R01 HD09948-01	12,197
LEWIS, HARLAN	BIOMEDICAL SCIENCES SUPPORT GRANT	5S07 RR07009-11	159,932
LIEBESKIND, JOHN C.	BEHAVIORAL AND ELECTROPHYSIOLOGICAL STUDIES OF PAIN	5R01 NS07628-09	71,959
LINDSLEY, DONALD B.	BRAINSTEM-HIPPOCAMPAL SYSTEMS REGULATING BEHAVIOR	5R01 GM22552-02	36,905
LOLLEY, RICHARD N.	MATURATION OF METABOLISM IN NORMAL AND DYSTROPHIC RETINA	5R01 EY00395-08	37,526
LUNER, STEPHEN J.	ANTIGEN AND SURFACE CHARGE PROPERTIES OF BLOOD CELLS	2R01 CA13955-04	68,272
LUNER, STEPHEN J.	ANTIGEN AND SURFACE CHARGE PROPERTIES OF BLOOD CELLS	5R01 CA13955-05	70,578
LYMAN, JOHN H.	ELECTROCUTANEOUS FEEDBACK FOR ARTIFICIAL LIMBS	2R01 GM21430-03	105,710
MACINNIS, AUSTIN J.	MOLECULAR MODE OF ANTHELMINTIC ACTION	1R01 AI13228-01	58,879
MARCUS, ROBERT A.	CYCLOC NUCLEOTIDE REGULATION IN BONE	5R01 AM17924-02	16,566
MARKHAM, CHARLES H.	CENTRAL VESTIBULAR MECHANISMS	5R01 NS06658-11	82,217
MARXOLF, KEITH L.	LIGAMENTOUS STABILITY OF THE KNEE	1R01 AM19043-01	82,143
MARTINEZ, RAFAEL J.	SERUM AND LYMPH BACTERICIDINS: BIOCHEMICAL MECHANISMS	5R01 AI12835-02	40,664
MAXWELL, MORTON H.	EXPERIMENTAL RENAL ARTERIAL HYPERTENSION	2R01 HL09575-11	94,863
MELLINKOFF, SHERMAN M.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00865-03	584,743
MELLINKOFF, SHERMAN M.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05354-15	261,305
MERRIAM, JOHN R.	GENETIC CHANGE IN DEVELOPING CELLS OF DROSOPHILA	5R01 GM17096-07	54,418
MEYER, JAMES H.	STUDY OF ALIMENTARY DERANGEMENTS AFTER ULCER SURGERY	7R01 AM19182-01	33,469
MEYERS, ROBERTA L.	MECHANISM OF CORNEAL INFLAMMATION IN HERPES KERATITIS	3R01 EY00394-08S1	7,632
MEYERS, ROBERTA L.	MECHANISM OF CORNEAL INFLAMMATION IN HERPES KERATITIS	2R01 EY00394-09	75,695
MEYERS, ROBERTA L.	PATHOGENESIS OF EXPERIMENTAL ALLERGIC UVEITIS	5R01 EY01309-03	34,795
MILLER, JAMES N.	IMMUNE MECHANISMS IN EXPERIMENTAL AND HUMAN SYPHILIS	5R01 AI12601-02	103,594
MONMARTS, WILFRIED F.	MOLECULAR, CELLULAR, AND PHYSIOLOGICAL INVESTIGATIONS	5P01 HL11351-10	844,442
MORTON, DONALD L.	MULTIDISCIPLINARY CANCER DIAGNOSIS AND THERAPY	5P01 CA12582-06	711,744
NAYAK, DEBI P.	INTERFERENCE BY DEFECTIVE INFLUENZA VIRUSES	5R01 AI12749-02	42,465
NAYAK, DEBI P.	ENDOGENOUS GUINEA PIG ONCORNAVIRUSES AND CANCER	5R01 CA15797-02	57,047
NIERLICH, DONALD P.	REGULATION OF RNA SYNTHESIS	5R01 GM15381-09	48,219
NODA, HIROHARU	NEURONAL BASIS OF VISUAL PERCEPTION IN EYE MOVEMENTS	5R01 EY01051-03	48,071
NOVIN, DONALD	STUDIES OF HUNGER, THIRST, AND WATER METABOLISM	5R01 NS07687-09	53,901
O'CONNOR, JOHN D.	METABOLISM OF ECDYSONE AND ECDYSONE-RECEPTOR PROTEINS	2R01 NS08990-05	54,934
O'LAGUE, PAUL H.	ELECTROPHYSIOLOGY OF DEVELOPING NEURONS IN CULTURE	1R01 NS12901-01	51,211
O'NEILL, YNEZ V.	DEVELOPMENT OF ANATOMICAL SCIENCES: GALEN TO VESALIUS	2R01 LM01941-04	16,440
PARMELEE, ARTHUR H.	EXPERT VIEWS ON CHILD REARING, 1900 - 1950	5R01 LM02429-02	20,965
PEARSON, CARL M.	CLINICAL PHARMACOLOGY RHEUMATIC AND MUSCULAR DISEASES	5P50 GM15759-09	1,021,404
PEASE, DANIEL C.	FINE STRUCTURAL ASPECTS OF KIDNEY, LUNG AND INTESTINE	3R01 HL01770-24S1	6,873
PEASE, DANIEL C.	FINE STRUCTURAL ASPECTS OF KIDNEY, LUNG AND INTESTINE	5R01 HL01770-25	50,676
PETER, JAMES B.	STUDIES OF CLINICALLY EARLY CHILDHOOD DYSTROPHY	5R01 NS10403-10	60,850
PETER, JAMES B.	STUDIES OF CLINICALLY EARLY CHILDHOOD DYSTROPHY	5R01 NS10403-11	61,302
PHELPS, DALE L.	ALPHA-TOCOPHEROL IN RETINAL OXYGEN TOXICITY	5R01 EY01507-02	44,542
PICKETT, M. JOHN	THE IMMUNE RESPONSE IN EXPERIMENTAL CHOLERA	5R22 AI12787-02	27,680
PIERCE, JOHN G.	PURIFICATION AND CHEMISTRY OF PROTEIN HORMONES	5R01 AM18005-23	109,784
POPIAK, GEORGE J.	MOLECULAR ASPECTS OF MENTAL RETARDATION	5P01 HD06576-03	398,255
POPIAK, GEORGE J.	ENZYMES AND INHIBITORS OF CHOLESTEROL BIOSYNTHESIS	5R01 HL12745-08	57,307
POPIAK, GEORGE J.	CONTROL OF CHOLESTEROL METABOLISM IN MAN	5R01 HL18016-02	57,495
PORTER, DAVID D.	IMMUNOLOGIC AND VIRAL STUDIES OF SLOW VIRUS INFECTIONS	2R01 AI09476-08	77,268
PUHVEL, S. MADLI	ACNE: STUDIES ON ISOLATED SEBACEOUS FOLLICLES	5R01 AM17425-03	80,461
RAND, ROBERT W.	FERRMAGNETIC SILICONE VASCULAR OCCLUSION IN NEOPLASMS	3R01 CA14303-03S1	12,067
RAND, ROBERT W.	FERRMAGNETIC SILICONE VASCULAR OCCLUSION IN NEOPLASMS	5R01 CA14303-04	68,194
RAY, DAN S.	REGULATION OF M13 VIRAL DNA REPLICATION	2R01 AI10752-05	9,591
REEDER, LEO G.	PROCESSES IN HEALTH BEHAVIOR AND CANCER CONTROL	1R18 CA18451-01	209,707
RINDERKNECHT, HEINRICH	PANCREATIC SECRETORY PROTEINS IN CANCER OF THE PANCREAS	1R26 CA20222-01	27,232
RIVIERE, GEORGE R.	TOOTH TRANSPLANTATION GENETICS AND IMMUNOLOGY	1R01 DE04489-01	82,382
ROBERTS, SIDNEY	REGULATION OF CEREBRAL PROTEIN SYNTHESIS	5R01 NS07869-11	84,790
ROBERTS, SIDNEY	REGULATION OF CEREBRAL PROTEIN SYNTHESIS	5R01 NS07869-12	82,160
ROMIG, WILLIAM R.	GENETIC STUDIES ON VIBRIO CHOLERAEE	5R22 AI08024-09	37,214
ROSE, GUENTER H.	BEHAVIORAL PLASTICITY	5R01 HD08895-02	3,823
ROSS, GORDON	EFFECTS OF IONS ON VASCULAR REACTIVITY	5R01 HL18199-02	37,406
RUBINSTEIN, EDUARDO H.	CARDIOVASCULAR STABILITY AND DEPTH OF ANESTHESIA	1R01 GM22974-01	68,464



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
SALSER, WINSTON A.	DETERMINING SEQUENCES FROM HEMOGLOBIN MESSENGER RNA	5R01 CA15940-03	89,576
SALSER, WINSTON A.	NUCLEOTIDE SEQUENCING METHODS FOR ONCOGENIC VIRUSES	5R01 GM18586-05	57,642
SAMBI, MOHINDER P.	RENIN-ANGIOTENSIN: IN METABOLISM IN HYPERTENSION	5R01 HL15039-04	42,933
SARNA, GREGORY P.	TREATED AML LEUKEMIA: COMPARATIVE HOST-TUMOR KINETICS	1R01 CA19870-01	38,988
SAWYER, CHARLES H.	RHINENCEPHALON, NEUROENDOCRINE FUNCTION, AND BEHAVIOR	2R01 NS01162-20	99,517
SCHACHER, JOHN F.	BASIC STUDIES IN LYMPHATIC FILARIASIS	5R22 AI07770-09	48,826
SCHAIN, RICHARD J.	FACTORS AFFECTING POSTNATAL BRAIN DEVELOPMENT	5R01 NS07691-08	46,989
SCHIBEL, ARNOLD B.	STRUCTUROFUNCTIONAL STUDIES OF NEUROFIL MODULES	5R01 NS10567-04	56,980
SCHIBEL, ARNOLD B.	STRUCTUROFUNCTIONAL STUDIES OF NEUROFIL MODULES	5R01 NS10567-05	58,380
SCHLAG, JOHN D.	CONDITIONING OF PYRAMIDAL ACTIVITY BY SENSORY INFLOW	2R01 NS04955-13	41,548
SCHOTZ, MICHAEL C.	LIPOPROTEIN LIPASE: CHEMISTRY AND FUNCTION	5R01 HL16577-02	94,595
SCHUMAKER, VERNE N.	MACROMOLECULES OF CIRCULATORY AND GENETIC IMPORTANCE	5R01 GM13914-11	62,284
SCHUMAKER, VERNE N.	MACROMOLECULES OF CIRCULATORY AND GENETIC IMPORTANCE	2R01 GM13914-12	105,789
SCHWARZ, KLAUS.	NEW ESSENTIAL TRACE ELEMENTS	5R01 AM08669-14	99,171
SCHWARZ, KLAUS.	ATHEROSCLEROSIS AND SILICON	5R01 HL17701-02	74,535
SCLABASSI, ROBERT J.	COMPUTATIONAL INVESTIGATIONS OF PROBLEMS IN NEUROLOGY	5R01 NS11443-03	27,240
SERCARZ, ELI E.	CLONAL ANALYSIS OF FINE SPECIFICITY OF T AND B CELLS	5R01 AI08198-08	63,965
SERCARZ, ELI E.	ANTIGEN-BINDING CELLS OF MULTIPLE SPECIFICITY	5R01 AI1183-04	66,050
SHAPIRO, DAVID	HYPERTENSION: ANALYSIS OF DRUG & BEHAVIORAL THERAPIES	1R01 HL19568-01	87,434
SIGMAN, DAVID S.	METAL ION CATALYSIS IN ENZYMIC REACTIONS	5R01 GM21199-08	44,637
SIGMAN, DAVID S.	METAL ION CATALYSIS IN ENZYMIC REACTIONS	5R01 GM21199-09	55,324
SILVERBLATT, FREDRIC J.	ROLE OF PILI IN GENITOURINARY TRACT INFECTIONS	7R01 AM19809-01	26,872
SIMMONS, DANIEL H.	SITE OF AIRWAY OBSTRUCTION AND CONTROL OF VENTILATION	5R01 HL15605-03	47,058
SIMPSON, LARRY	THE FUNCTION OF THE KINETOPLAST IN THE HEMOFLAGELLATES	5R01 AI09102-08	43,041
SIMPSON, LARRY	DNA IN TRANSFORMATION OF TRYPANOSOMA BRUCEI	1R01 AI13027-01	21,989
SLOAN, SHERWIN H.	CYCLOC NUCLEOTIDE METABOLISM IN THE HUMAN RETINA	5R23 EY01447-02	10,065
SMITH, EMIL L.	STRUCTURE AND PROPERTIES OF PROTEINS AND ENZYMES	5R01 GM11061-14	265,630
SMITH, ROBERTS A.	GROUP TRANSFER PROCESSES IN NORMAL AND MALIGNANT CELLS	5R01 CA13196-05	75,248
SOLOMON, DAVID H.	STUDIES ON GRAVES' DISEASE	5R01 AM17251-02	59,853
SONNENSCHNEN, RALPH R.	REGIONAL CIRCULATORY RESPONSES TO HYPOXIA	1R01 HL17903-01A1	46,081
STECKEL, RICHARD J.	CORE CANCER CENTER SUPPORT GRANT	5P30 CA16042-02	1,034,792
STELL, WILLIAM K.	PATHWAYS FOR COLOR VISION IN RETINAS	2R01 EY01190-04	118,574
STEVENS, JACK G.	LATENCY IN HERPES VIRUS INFECTION OF CELLS AND TISSUES	5R01 AI06246-12	98,272
STEVENS, JACK G.	ANALYSIS OF THE SHOPE PAPILLOMA-CARCINOMA SYSTEM	1R01 CA18151-01	69,073
STIEHM, E RICHARD	CELLULAR IMMUNITY IN SICK AND MALNOURISHED INFANTS	1R01 HD09800-01	78,383
STIEHM, E RICHARD	CELLULAR IMMUNITY IN SICK AND MALNOURISHED INFANTS	5R01 HD09800-02	83,060
STRAATSMAN, BRADLEY R.	STUDY OF RETINAL MORPHOLOGY	5P30 EY00331-10	262,845
SULLIVAN, STUART F.	VENTILATORY ADJUSTMENTS FOR OPTIMAL OXYGENATION	5R01 HL17358-02	43,605
SWENDSEID, MARIAN E.	AMINO ACID AND AMINE METABOLISM IN EXPERIMENTAL UREMIA	2R01 AM15197-04A1	42,757
SZEGO, CLARA M.	MECHANISMS OF HORMONE ACTION	3R01 HD04354-22A1S1	3,665
SZEGO, CLARA M.	MECHANISMS OF HORMONE ACTION	5R01 HD04354-23	107,511
TARIAN, GEORGE	MENTAL RETARDATION RESEARCH CENTER	5P30 HD04612-08	627,988
TAYLOR, ANNA N.	NEURAL MECHANISMS FOR PITUITARY-ADRENAL PERIODICITY	5R01 NS09122-06	34,351
TAYLOR, DERMOT B.	MOLECULAR EVENTS AT THE CHOLINERGIC RECEPTOR	5R01 NS11708-02	38,082
TERASAKI, PAUL I.	STUDY OF SIGNIFICANCE OF HLA ANTIGENS IN DISEASE	5R01 AM02375-18	71,546
THOMAS, JAMES P.	MECHANISMS OF SPATIAL PATTERN VISION	2R01 EY00360-10	52,414
THOMAS, WARREN D.	CONSERVATION OF PRIMATE SPECIES AND CANCER RESEARCH	1P40 RR01043-01	42,941
TOBIN, ELAINE M.	MESSENGER RNA AND PHYTOCHROME CONTROLLED DEVELOPMENT	1R01 GM23167-01	64,157
URIST, MARSHALL R.	INDUCTIVE SUBSTRATES FOR TOOTH AND BONE FORMATION	5R01 DE02103-12	203,842
VALENTINE, WILLIAM N.	ENZYMATIC AND BIOCHEMICAL STUDIES ON BLOOD CELLS	3R01 HL12944-06S1	1,871
VALENTINE, WILLIAM N.	ENZYMATIC AND BIOCHEMICAL STUDIES ON BLOOD CELLS	5R01 HL12944-07	144,322
VAN HERLE, ANDRE J.	CIRCULATING THYROGLOBULIN IN THYROID CARCINOMA	5R01 CA13447-04	31,505
VAN LANCKER, JULIEN L.	ROLE OF REPAIR ENZYMES IN PATHOGENESIS OF LIVER CANCER	5R01 CA14840-03	56,424
VERITY, M ANTHONY	A MORPHOBIOCHEMICAL STUDY OF MERCURY ENCEPHALOPATHY	5R01 ES00625-05	33,127
WATSMAN, JERRY J.	EPITHELIAL ATYPY AND CANCER OF THE URINARY BLADDER	5R26 CA14648-03	20,521
WALFORD, ROY L.	THE ROLE OF IMMUNE PHENOMENA IN THE AGING PROCESS	5R01 AG00424-15	80,707
WALFORD, ROY L.	TRANSPLANTATION IMMUNOGENETICS AND CANCER	2R01 AI10088-06	131,256
WALFORD, ROY L.	IMMUNOGENETIC MECHANISMS AND CANCER IN CONGENIC MICE	3R01 CA12788-04S1	16,916
WALSH, JOHN H.	HORMONAL ETIOLOGY OF GASTRIC HYPERSECRETION	5R01 AM17294-03	62,121
WARD, JOHN F.	CELLULAR REPAIR OF POTENTIALLY MUTAGENIC DAMAGE	5R01 CA13437-04	53,907



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
WARD, JOHN F.	CELLULAR REPAIR OF POTENTIALLY MUTAGENIC DAMAGE	5R01 CA13437-05	54,624
WARD, PAUL H.	EXPERIMENTAL STUDY OF VESTIBULAR MECHANISMS.	5R01 NS08335-09	70,421
WARD, PAUL H.	STUDY OF COMMUNICATIVE DISORDERS.	5P50 NS09823-06	510,084
WARSHEL, ARIEH.	THEORETICAL STUDIES OF THE VISION PROCESS	1R01 EY01766-01	25,031
WASTERLAIN, CLAUDE G.	BRAIN RIBOSOMES AND BRAIN PROTEIN SYNTHESIS IN EPILEPSY.	7R01 NS13227-01	14,420
WASTERLAIN, CLAUDE G.	PROTEIN SYNTHESIS IN EPILEPSY, AGING AND BRAIN DISORDER	2R01 NS13227-02	79,731
WASTERLAIN, CLAUDE G.	BRAIN DEVELOPMENT IN EXPERIMENTAL EPILEPSY.	7R01 NS13515-01	64,526
WEBBER, MILO M.	RADIOTRACERS IN THE DIAGNOSIS AND TREATMENT OF CANCER.	5R01 CA15787-02	65,690
WEBBER, MILO M.	RADIOISOTOPES DEMONSTRATION OF THROMBOPHLEBITIS	5R01 GM17113-05	52,189
WEINSTOCK, ALFRED	THE ELABORATION OF GLYCOPROTEINS IN MINERALIZING TISSUES	5R01 DE03386-06	82,438
WEISBART, RICHARD H.	LYMPHOCYTE MEDIATORS IN CELL MEDIATED IMMUNITY.	1R01 A13253-01	64,103
WENZEL, BERNICE M.	OLFACTORY PROJECTION FIELD.	2R01 NS10353-03	28,750
WEST, CHARLES A.	BIOSYNTHESIS OF ISOPRENOID HORMONES	5R01 GM07065-16	57,609
WHITE, STUART C.	STUDY OF IMMUNOPATHOLOGIC MECHANISMS OF EAS	5R23 DE03859-03	10,065
WICKNER, WILLIAM T.	MEMBRANE ASSEMBLY IN VIRUS-TRANSFORMED CELLS	1R01 GM23377-01	85,288
WISNIESKI, BERNADINE J.	PHYSICAL STRUCTURE OF ANIMAL CELL MEMBRANES.	5R01 GM22240-02	40,877
WOLFGAM, FREDERICK J.	FUNDAMENTAL STUDIES RELATING TO MULTIPLE SCLEROSIS	5P50 NS08711-06	334,773
WOLFGAM, FREDERICK J.	FUNDAMENTAL STUDIES RELATING TO MULTIPLE SCLEROSIS	2P50 NS08711-07	300,083
WRIGHT, ERNEST M.	THE SECRETION OF THE CEREBROSPINAL FLUID	2R01 NS09666-03	71,336
YOUNG, LOWELL S.	STUDY OF HOST-MICROBIAL FACTORS IN BACILLEMIAS.	5R01 A11271-04	29,749
YOUNG, RICHARD W.	HISTOPHYSICAL AND HISTOCHEMICAL STUDIES ON THE EYE.	5R01 EY00095-15	91,465
YUMLER, ARTHUR	DEVELOPMENTAL EFFECTS OF NEONATAL CORTISOL TREATMENT	5R01 HD08575-02	31,934
ZABIN, IRVING.	STUDIES OF AN INDUCIBLE BACTERIAL ENZYME	2R01 A104181-15	94,866
ZAMENHOF, STEPHEN	CHRONIC UNDERNUTRITION AND BRAIN DEVELOPMENT	5R01 HD08927-02	54,998
ORGANIZATION TOTAL	313	32,380,978	
<b>UNIVERSITY OF SOUTHERN CALIFORNIA ZIP CODE 90007</b>			
AHMAD, NAZIR	ANDROGENIC REGULATION OF SPERMATOGENESIS	5R01 HD08126-02	52,114
ALADJEM, FREDERICK	STRUCTURE AND FUNCTION OF HUMAN SERUM LIPOPROTEINS.	1R01 HL19084-01	87,674
ALEXANDER, NATALIE	AN INDEX OF SYMPATHETIC ACTIVITY IN HYPERTENSION.	1R01 HL19251-01	61,729
APPLEMAN, M MICHAEL	CYCLOC NUCLEOTIDE PHOSPHODIESTERASE	5R01 AM16367-03	30,852
BAKER, ROBERT F.	REGULATION OF GENE EXPRESSION IN DEVELOPMENT	5R01 HD04015-08	44,753
BATEMAN, JOSEPH R, III	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	3R10 CA05186-15S1	301,492
BAU, ROBERT	STUDIES OF HYDROXAMATE COMPLEXES AND URATE SALTS	5R01 AM15846-04	30,916
BAU, ROBERT	STRUCTURAL STUDIES ON PLATINUM-NUCLEOTIDE COMPLEXES	5R01 CA17367-02	32,093
BAUER, FRANZ K.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.	5M01 RR00043-16	866,584
BAUMGARTNER, WERNER A.	ANTIOXIDANTS IN SENESCING AND IN NEOPLASTIC CELLS	3R01 CA14221-03S1	3,074
BEIERLE, JOHN W.	WILM'S TUMOR ANTIGENS	5R01 CA17687-02	29,837
BEKHOR, ISAAC	CHROMATIN-GLUCOCORTICOID INFLUENCES IN CLEFT PALATE	5R01 DE04031-02	35,553
BEKHOR, ISAAC	DNA-CHROMOSOMAL PROTEIN IN CRANIOFACIAL DEVELOPMENT	5R01 DE04255-02	33,954
BERGMAN, RICHARD N.	QUANTITATIVE STUDIES OF METABOLIC DYNAMICS	5R01 AM17236-03	50,924
BESSMAN, SAMUEL P.	SEX STEROIDS AND FETAL HEART GLYCOLYSIS	5R01 HD09052-02	35,739
BIDLACK, WAYNE R.	HYDROPEROXIDE PEROXIDASE IN BIOLOGICAL OXIDATIONS	5R01 GM22181-02	37,084
BISHOP, LEWIS G.	NEUROPHYSIOLOGY OF AN OPTOMOTOR RESPONSE	5R01 EY01513-02	48,181
BLANKENHORN, DAVID H.	SUPPORT FOR CENTER FOR RESEARCH ON ATHEROSCLEROSIS	3P50 HL14138-05S1	418,055
BRODIE, ARNOLD F.	MECHANISMS OF OXIDATIVE ENERGY GENERATION IN BACTERIA	5R01 A105637-14	89,943
CADY, LEE D.	CARDIOVASCULAR FITNESS AND OTHER RISK FACTORS	5R01 HL18235-02	42,013
CRAWFORD, DONALD W.	ARTERIAL WALL OXYGENATION	1R01 HL18969-01	25,679
DI SARA, PHILIP J.	CERVICAL NEOPLASIA TREATMENT	1R01 CA20795-01	40,724
DUNN, ARNOLD S.	HORMONAL REGULATION OF HEPATIC GLUCOSE PRODUCTION	5R01 AM07215-12	39,284
FIFE, THOMAS H.	ENZYMATIC AND NONENZYMATIC HYDROLYSIS OF ACETALS.	2R01 GM10613-13	35,544
FIFE, THOMAS H.	ENZYMATIC AND NONENZYMATIC HYDROLYSIS OF ACETALS.	5R01 GM10613-14	45,622
FIFE, THOMAS H.	ENZYMATIC AND NONENZYMATIC REACTIONS OF ACYL PHOSPHATES.	5R01 GM16564-08	33,146
FINCH, CALEB E.	AGING AND BRAIN MONOAMINES IN MICE	1R01 AG00117-01	71,137
FINCH, CALEB E.	AGING AND BIOSYNTHESIS IN NON-DIVIDING CELLS	3R01 AG00446-02S1	439
FINCH, CALEB E.	AGING AND BIOSYNTHESIS IN NON-DIVIDING CELLS	5R01 AG00446-03	27,587
FRIEDLER, ROBERT M.	NATRIURESIS OF VOLUME EXPANSION AND CYCLIC AMP.	1R01 AM19181-01	37,000
FRIOU, GEORGE J.	K CELL CYTOTOXIC MECHANISMS IN RHEUMATIC DISEASES.	5R01 AM18445-02	65,427
FU, JOAN C.	EVALUATION OF SUSTAINED RELEASE ANTINEOPLASTIC CAPSULES	5R01 CA17415-02	40,288
GOEBELSMANN, UWE T.	PLASMA ESTRIOL: TRANSPORT, MEASUREMENT & CLINICAL USE	2R01 HD05932-04	47,670

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
GOEBELSMANN, UWE T.....	PLASMA ESTRIOL: TRANSPORT, MEASUREMENT & CLINICAL USE.....	5R01 HD05932-05	46,054
GOODMAN, MYRON F.....	CARDIOTOXICITY IN CANCER TREATMENT: A MOLECULAR STUDY.....	5R01 CA17358-02	48,397
GOODMAN, MYRON F.....	ERROR CORRECTION IN REPLICATING T4 BACTERIOPHAGE.....	5R01 GM21422-02	27,005
GORDON, IRVING.....	STUDIES OF MEASLES VIRUS OR OTHER VIRUS INFECTIONS.....	5R01 AI03874-15	67,808
GORDON, IRVING.....	STUDIES OF MEASLES VIRUS OR OTHER VIRUS INFECTIONS.....	5R01 AI03874-16	72,551
GRODINS, FRED S.....	CARDIOPULMONARY CONTROL COUPLING IN EXERCISE.....	5R01 HL16390-03	76,797
HAMMOND, G DENMAN.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	5R10 CA13539-04	826,324
HAMMOND, G DENMAN.....	PILOT MULTIDISCIPLINARY CANCER RESEARCH PROGRAM.....	5P30 CA14089-03	3,012,703
HARDING, BOYD W.....	STEROID HYDROXYLASES IN ADRENAL TISSUE.....	2R01 CA07057-13	124,991
HAYS, DANIEL M.....	IN VITRO STUDIES OF LIVER REGENERATION.....	5R01 AM08879-11	51,476
HAYWOOD, L JULIAN.....	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE.....	5P60 HL15162-05	331,545
HEIDELBERGER, CHARLES D.....	IN VITRO CHEMICAL CARCINOGENESIS.....	1R01 CA21036-01	112,975
HENDERSON, BRIAN E.....	SUPPORT FOR CANCER EPIDEMIOLOGY & BIostatISTICS PROGRAM.....	5P01 CA17054-02	803,902
HENRY, JAMES P.....	PSYCHOSOCIAL HYPERTENSION CATECHOLAMINES AND DRUGS.....	5R01 HL17706-03	97,345
HOCHSTEIN, PAUL E.....	ULTRASTRUCTURE - BIOCHEMICAL STUDIES OF AGING RED CELLS.....	5R01 AG00471-02	50,396
HOCHSTEIN, PAUL E.....	METABOLIC BASIS OF TUMOR CELL DEFORMABILITY.....	1R01 CA19615-01	58,825
HORTON, RICHARD.....	METABOLISM & CONTROL OF TESTOSTERONE (ANDROGENS) IN MAN.....	2R01 AM13710-07	35,547
HORTON, RICHARD.....	METABOLISM & CONTROL OF TESTOSTERONE (ANDROGENS) IN MAN.....	5R01 AM13710-08	43,721
HORTON, RICHARD.....	PLASMA ALDOSTERONE IN NORMAL AND HYPERTENSIVE MAN.....	5R01 HL13476-06	39,342
JONES, MARY E.....	CARBAMYL ENZYMES AND DIFFERENTIATION.....	5R01 HD06538-05	76,000
JONES, MARY E.....	CARBAMYL ENZYMES AND DIFFERENTIATION.....	5R01 HD06538-06	80,083
KAPRIELIAN, ZOHRA B A.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07012-10	77,998
KHAWA, TASNEEM A.....	PRECLINICAL EVALUATION OF URICYTIN.....	5R01 CA16014-02	42,228
LAI, MICHAEL M.....	STRUCTURE AND ORGANIZATION OF RNA TUMOR VIRUSES.....	5R01 CA16113-02	45,503
LIEB, MARGARET.....	GENE INTERACTION IN BACTERIA AND PHAGE.....	5R01 AM05367-14	63,767
LIPSETT, JAMES A.....	RADIATION THERAPY ONCOLOGY GROUP.....	1R10 CA18259-01	52,000
LUKES, ROBERT J.....	LYMPHOMA-LEUKEMIA CANCER CENTER PROGRAM.....	1P01 CA19449-01	264,160
MACK, THOMAS M.....	CASE CONTROL STUDY OF CARCINOMA OF THE PANCREAS.....	1R26 CA19171-01	59,850
MACK, THOMAS M.....	CASE-CONTROL STUDY OF CARCINOMA OF THE ESOPHAGUS.....	1R01 CA19496-01	60,667
MARSH, DONALD J.....	ACTIONS OF ANTIDIURETIC HORMONE OF THE RENAL MEDULLA.....	3R01 AM15968-04S1	14,390
MARSH, DONALD J.....	COUNTERCURRENT PROPERTIES OF THE RENAL INNER MEDULLA.....	2R01 AM15968-05	77,970
MARSH, DONALD J.....	MECHANISM OF OSCILLATORY GLUCOSE AND INSULIN DYNAMICS.....	5R01 AM18467-02	63,667
MASSRY, SHAUL G.....	CATECHOLAMINES, ADH, AND WATER METABOLISM.....	5R01 AM18345-03	55,491
MASSRY, SHAUL G.....	BLOOD BRAIN BARRIER AND CALCIUM.....	1R01 AM18959-01	53,935
MATHIES, ALLEN W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05356-15	248,104
MATIOLI, GASTONE.....	STUDY ON VIRUS INDUCED LEUKEMIC STEM CELLS IN MICE.....	5R01 CA14730-02	62,041
MC CLURE, WILLIAM O.....	STUDIES OF NEURAL PROTEINS.....	7R01 NS13215-01	35,561
MC KENNA, ROBERT J.....	SUPPORT FOR REGIONAL ACTIVITIES CANCER CENTER.....	2R18 CA16419-02	496,108
MEISELMAN, HERBERT J.....	HEMORRHEOLOGY STUDIES RELATED TO IN VIVO BLOOD FLOW.....	2R01 HL15722-04	38,421
MELROSE, RAYMOND J.....	SUPPORT FOR CLINICAL CANCER PROGRAM (DENTAL).....	1R25 CA19270-01	32,607
MOORE, GEORGE P.....	COMPUTER ANALYSIS OF MUSCLE RECEPTOR SPIKE TRAINS.....	5R01 NS12598-02	51,765
MOOSER, GREGORY.....	RECEPTOR FUNCTION AND RELATED STUDIES IN ORAL BIOLOGY.....	2R01 DE03739-04	46,755
MOSLEY, JAMES W.....	EVALUATION OF GLUCOCORTICOID FOR FULMINANT HEPATITIS.....	5R01 AM17953-02	59,695
MOSTELLER, RAYMOND D.....	REGULATION OF PROTEIN DEGRADATION IN ESCHERICHIA COLI.....	1R01 GM23292-01	38,674
NICOLOFF, JOHN T.....	HUMAN THYROID HORMONE METABOLISM.....	5R01 AM11727-09	55,327
NIMNI, MARCEL E.....	CONTROL OF COLLAGEN METABOLISM AND CROSSLINKING.....	5R01 AM10358-10	77,371
NIMNI, MARCEL E.....	COLLAGEN IN OSTEOARTHRITIC CARTILAGE.....	5R01 AM16404-03	54,110
O'BRIEN, RICHARD L.....	DEFECTIVE DNA IN FANCONI'S ANEMIA.....	5R01 CA16946-02	40,040
OLDHAM, SUSAN B.....	PARATHYROID REGULATION AND VITAMIN D ACTIVATION.....	5R01 AM16081-03	34,670
OLIVER, RICHARD C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05303-15	41,013
PARKER, JOHN W.....	PERIODATE INDUCED LYMPHOCYTE TRANSFORMATION.....	5R01 CA14673-03	51,412
QUILLIGAN, EDWARD J.....	MECHANISMS OF FETAL CEREBRAL VASCULAR CONTROL.....	5R01 HD07377-03	56,356
RAUMAN, LUISA J.....	THE REGULATION OF UREA SYNTHESIS IN MAMMALS.....	1R01 AM19417-01	43,390
RUSSELL, FINDLAY E.....	PEPTIDES AND NONENZYMATIC PROTEINS OF VENOMS.....	5R01 NS11476-02	33,578
RYAN, STEPHEN J.....	AN EXPERIMENTAL APPROACH TO MACULOPATHY.....	1R01 EY01545-01	77,288
SCHAE, K WARNER.....	COGNITIVE BEHAVIOR IN MATURITY AND OLD AGE.....	5R01 AG00480-03	74,145
SCHAE, K WARNER.....	COGNITIVE BEHAVIOR IN MATURITY AND OLD AGE.....	5R01 AG00480-04	118,780
SCHIFFMAN, SANDRA.....	MECHANISM OF CONTACT ACTIVATION OF INTRINSIC CLOTTING.....	5R01 HL17402-02	26,015
SCHIFFMAN, SANDRA.....	BIOCHEMISTRY OF HUMAN FACTOR XI.....	1R01 HL18859-01	40,251
SCHNEIR, MICHAEL L.....	THE MOLECULAR NATURE OF GINGIVAL AND MUCOSAL COLLAGEN.....	5R01 DE03318-05	63,429

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
SCHNEPP, OTTO O.....	CIRCULAR DICHROISM STUDIES IN THE VACUUM ULTRAVIOLET.....	5R01 GM14471-08	49,511
SCHWETZER, IRVIN L.....	HEPATITIS, HAA, AND ANTI-HAA IN MOTHERS AND INFANTS.....	5R01 AI10894-05	33,341
SEGAL, GERALD A.....	CIRCULAR DICHROISM SPECTRA IN THE VACUUM ULTRAVIOLET.....	1R01 GM22721-01	29,480
SEITER, CHARLES H.....	SPECTROSCOPIC STUDIES OF RESPIRATORY METALLOPROTEINS.....	1R01 HL19392-01	34,273
SHERWIN, RUSSELL P.....	COVERT CELLULAR AND SUBCELLULAR DAMAGE OF LUNG.....	5R01 HL17412-02	79,423
SHERWIN, RUSSELL P.....	COVERT CELLULAR AND SUBCELLULAR DAMAGE OF LUNG.....	5R01 HL17412-03	88,222
SINGER, FREDERICK R.....	PATHOGENESIS OF PSEUDOHYPERTHYROIDISM.....	1R01 CA17666-01	48,287
SLAVIN, BERNARD G.....	DISTRIBUTION OF ADRENERGIC NERVES IN ADIPOSE TISSUE.....	5R01 HL18283-02	32,032
SLAVKIN, HAROLD C.....	BIOLOGY OF CONNECTIVE TISSUE, BONES, AND TEETH.....	5P01 DE02848-07	231,639
SLAVKIN, HAROLD C.....	DERMAL-EPIDERMAL DIFFUSION IN GINGIVAL SULCUS TISSUES.....	5R01 DE03513-05	82,582
SLAVKIN, HAROLD C.....	INTERCELLULAR COMMUNICATION DURING TOOTH FORMATION.....	5R01 DE03569-04	57,178
SLAVKIN, HAROLD C.....	INTERCELLULAR COMMUNICATION DURING TOOTH FORMATION.....	5R01 DE03569-05	61,610
SORGENTE, NINO.....	ROLE OF VASCULARIZATION DURING CRANIOFACIAL DEVELOPMENT.....	5R01 DE04074-02	43,059
STELLWAGEN, ROBERT H.....	MECHANISM OF ENZYME INDUCTION BY CYCLIC NUCLEOTIDES.....	5R01 CA12563-06	47,150
STEPHENS, PHILIP J.....	INFRARED NATURAL AND MAGNETIC CIRCULAR DICHROISM.....	2R01 GM16263-07	76,354
STEPHENS, PHILIP J.....	INFRARED NATURAL AND MAGNETIC CIRCULAR DICHROISM.....	5R01 GM16263-08	57,601
THOMPSON, LARRY W.....	INFORMATION PROCESSING AND AGING.....	5R01 AG00088-02	42,914
TURNER, A FRANKLIN.....	QUANTITATIVE DIAGNOSIS OF EARLY PULMONARY EDEMA.....	5R01 HL18132-02	73,799
VOGT, PETER K.....	INTERACTIONS BETWEEN AVIAN TUMOR VIRUSES AND THEIR HOSTS.....	5R01 CA13213-05	116,791
VOGT, PETER K.....	INTERACTIONS BETWEEN AVIAN TUMOR VIRUSES AND THEIR HOSTS.....	5R01 CA13213-06	122,512
VOGT, PETER K.....	GENETICS OF RNA TUMOR VIRUSES.....	1R01 CA19725-01	119,817
WALSH, DAVID A.....	AGE DIFFERENCES IN VISUAL INFORMATION PROCESSING.....	1R01 AG00521-01	25,452
WEBER, WILLIAM P.....	SYNTHESIS METABOLITES 7,12-DIMETHYLBENZ(A)ANTHRACENE.....	1R01 CA19444-01	32,275
WEIL, MAX H.....	AUTOMATIC DATA COLLECTION DURING CRITICAL CARE.....	2R01 GM16462-12	39,875
WEINER, LESLIE P.....	DEMYELINATING DISEASES CAUSED BY VIRUSES.....	7R01 NS12967-01	49,974
WOLF, WALTER.....	NEW PLATINUM COMPOUNDS AS POTENTIAL ANTITUMOR AGENTS.....	1R01 CA19076-01	48,125
WOLF, WALTER.....	RADIOPHARMACEUTICALS IN CANCER DIAGNOSIS AND MANAGEMENT.....	1P01 CA19438-01	214,755
YAMADA, HENRY N.....	'DENTAL PORCELAIN' - THE STATE OF THE ART - 1976.....	1R13 DE04400-01	39,956
YATES, FRANCIS E.....	ANALYSIS OF GLUCOCORTICOID SYSTEM FUNCTIONS.....	5R01 AM17679-03	76,892
ORGANIZATION TOTAL	122	13,909,309	
<b>MENLO PARK</b>			
<b>LINUS PAULING INSTITUTE OF SCIENCE AND MEDICINE ZIP CODE 94025</b>			
PAULING, LINUS C.....	ORTHOMOLECULAR DIAGNOSIS OF CANCER.....	5R01 CA16398-02	115,471
ROBINSON, ARTHUR B.....	MEDICAL DIAGNOSIS BY MASS SPECTROMETRY.....	2R01 GM21193-03	326,158
ORGANIZATION TOTAL	2	441,629	
<b>STANFORD RESEARCH INSTITUTE ZIP CODE 94025</b>			
ACTON, EDWARD M.....	SYNTHESIS OF SEPTACIDIN ANALOGS AS ANTITUMOR DRUGS.....	5R01 CA15029-03	47,834
ALMQUIST, RONALD G.....	SYNTHESIS OF POTENTIAL ANTIHYPERTENSIVE AGENTS.....	1R01 HL19538-01	74,885
ANBAR, MICHAEL.....	FIELD ION MASS SPECTROMETRY APPLIED TO CANCER THERAPY.....	5R01 CA13312-04	214,616
ANBAR, MICHAEL.....	FIELD ION MASS SPECTROMETRY APPLIED TO CANCER THERAPY.....	5R01 CA13312-05	227,152
ANBAR, MICHAEL.....	PREVENTION OF CRIES AND PLAQUE BY POLYPHOSPHONATES.....	5R01 DE03997-02	51,667
ANBAR, MICHAEL.....	ADVANCED MASS SPECTROMETRIC MULTICOMPONENT ANALYZER.....	5R01 GM21835-02	111,161
BARON, WILLIAM S.....	PHOTORECEPTOR INFORMATION PROCESSING IN PRIMATES.....	5R01 EY01579-02	121,821
BRODIE, IVOR.....	INVESTIGATION OF CHARGE TRANSFER ELECTRO-RADIOGRAPHY.....	1R01 CA16543-01A1	74,647
CHADWICK, JOSEPH.....	BLOOD PRESSURE EDUCATION IN AN INDUSTRIAL SETTING.....	5R25 HL18424-02	123,574
COLWELL, WILLIAM T.....	SYNTHESIS AND EVALUATION OF PROSTAGLANDIN METABOLITES.....	1R01 HL19066-01	70,727
CORY, MICHAEL J.....	SYNTHESIS OF COMPLEMENT INHIBITORS.....	5R01 AI12131-03	39,654
CRANE, HEWITT D.....	EXPERIMENTAL STUDY OF VISUAL ACCOMMODATION.....	5R01 EY01031-03	95,614
DAWSON, MARCIA I.....	POLYMERIC PROBE OF PROSTAGLANDIN-MEMBRANE INTERACTION.....	1R01 GM22672-01A1	110,099
DE GRAW, JOSEPH I.....	8-DEAZAFOLATES AS FOLIC ACID ANTAGONISTS.....	5R01 CA16533-02	48,983
DE GRAW, JOSEPH I.....	8-DEAZAFOLATES AS FOLIC ACID ANTAGONISTS.....	5R01 CA16533-03	52,867
EDMONDS, PETER.....	BIOEFFECTS OF LOW INTENSITY ULTRASONIC IRRADIATION.....	3P01 GM22684-01S1	11,971
EDMONDS, PETER.....	BIOEFFECTS OF LOW INTENSITY ULTRASONIC IRRADIATION.....	5P01 GM22684-02	292,470
EVANS, MICHAEL J.....	EFFECT OF AGING ON TISSUE INJURY AND REPAIR.....	5R01 HL16330-04	48,674
FIELDSTEEL, A HOWARD.....	CULTIVATION OF M. LEPRAE IN TISSUE CULTURE.....	5R22 AI08417-07	168,200
FODGE, DOUGLAS W.....	GLUCOCORTICOIDS IN NORMAL AND TRANSFORMED CELLS.....	1R01 CA19627-01	56,557



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
FREEMAN, GUSTAVE.....	STUDY OF CHRONIC OBSTRUCTIVE LUNG DISEASE.....	5P01 ES00842-04	360,677
FREEMAN, GUSTAVE.....	STUDY OF CHRONIC OBSTRUCTIVE LUNG DISEASE.....	5P01 ES00842-05	367,377
GLICK, DAVID.....	QUANTITATIVE HISTOCHEMISTRY OF GASTRIC ACID SECRETION.....	5R01 AM17772-03	110,956
GLICK, DAVID.....	HYALURONIDASE AND CANCER.....	5R01 CA17825-02	80,819
GREEN, PHILIP S.....	ULTRASONIC CAMERA FOR SOFT TISSUE IMAGING -- PART A.....	5R01 GM18780-05	128,081
HENRY, DAVID W.....	SYNTHETIC ANTITUMOR ANALOGS—ALPHA-DEOXYTHIOGUANOSINE.....	5R01 CA16487-02	57,655
JENSEN, RICHARD A.....	VAGAL CONTROL OF HEART RATE: A BIOPHYSICAL MODEL.....	1R01 HL19076-01	110,719
KAPLAN, JOEL N.....	MATERNAL BEHAVIOR AND INFANT DEVELOPMENT.....	5R01 HD04905-05	94,179
KELLY, DONALD H.....	PROCESSING OF ELEMENTARY VISUAL STIMULI.....	5R01 EY01128-03	104,357
KUHLMANN, KARL F.....	19F NMR STUDY OF BINDING OF DRUGS TO DNA.....	5R01 CA14251-02	60,552
KUHLMANN, KARL F.....	NOVEL ACTINOMYCIN ANALOGS: SYNTHESIS AND DNA-BINDING.....	5R01 CA16486-02	61,955
LIN, YING-TSUNG.....	RATIONAL MODIFICATION OF SOME ANTITUMOR AGENTS.....	5R01 CA15005-02	45,656
MILL, THEODORE.....	THE ROLE OF FREE RADICALS AND ANTIOXIDANTS IN AGING.....	5R01 AG00486-02	32,586
MILL, THEODORE.....	THE ROLE OF FREE RADICALS AND ANTIOXIDANTS IN AGING.....	5R01 AG00486-03	30,060
MITCHELL, ANN D.....	DEVELOPMENT OF DNA REPAIR FOR MONITORING HUMAN HEALTH.....	1R01 ES01281-01	73,063
MITCHELL, ANN D.....	DEVELOPMENT OF DNA REPAIR FOR MONITORING HUMAN HEALTH.....	5R01 ES01281-02	81,605
MOSHER, CAROL W.....	ETHIDIUM ANALOGS WITH DNA BASE-SEQUENCE SPECIFICITY.....	1R01 CA19895-01	54,559
PETERS, HOWARD M.....	PREPARATION OF FLUORINATED VOLATILE ANESTHETICS.....	5R01 GM20082-03	40,452
PETERS, JOHN H.....	STUDIES OF ANTILEPROSY DRUGS IN ANIMALS AND MAN.....	5R22 AI08214-09	69,621
REBERT, CHARLES S.....	ASYMMETRY OF HUMAN EEG, PERCEPTION AND LEARNING.....	1R01 NS12591-01A1	73,346
REIST, ELMER J.....	STUDIES OF BIOLOGICALLY IMPORTANT SPHINGOLIPIDS.....	5R01 AM17846-02	45,173
REIST, ELMER J.....	STUDIES OF BIOLOGICALLY IMPORTANT SPHINGOLIPIDS.....	5R01 AM17846-03	48,227
REIST, ELMER J.....	SYNTHESIS OF CNS ANTITUMOR AGENTS.....	2R01 CA13911-04	56,950
REIST, ELMER J.....	NEURAMINIDASE ANTAGONISTS AS ANTIFERTILITY COMPOUNDS.....	5R01 HD07988-02	59,597
REIST, ELMER J.....	PLANT SAPONINS WITH ANTIFERTILITY ACTIVITY.....	1R01 HD09919-01	62,497
SKINNER, WILFRED A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05522-14	161,965
SYRETT, BARRY C.....	ASSESSMENT OF TRIP STEELS FOR ORTHOPEDIC IMPLANTS.....	5R01 AM17150-03	84,541
TANABE, MASATO.....	BIO-SYNTHETIC STUDIES WITH CARBON-13.....	5R01 AI08143-07	67,754
TANABE, MASATO.....	C-13 SUBSTITUTED STEROIDS AS ANTIFERTILITY AGENTS.....	1R01 HD09978-01	68,660
WEAVER, CHARLES S.....	WEARABLE BLOOD PRESSURE AND ECG RECORDING SYSTEM.....	5R01 HL17604-02	198,536
ORGANIZATION TOTAL	50	4,935,348	
<b>NORTHRIDGE</b>			
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE UNIVERSITY, NORTHRIDGE ZIP CODE 91324</b>			
LEFEVRE, GEORGE, JR.....	COMPARATIVE STUDIES ON INDUCED MUTATION IN DROSOPHILA.....	5R01 GM13631-11	46,309
OPPENHEIMER, STEVEN B.....	MOLECULAR BASIS OF INTERCELLULAR ADHESION.....	5R01 CA12920-05	33,771
ORGANIZATION TOTAL	2	80,080	
<b>OAKLAND</b>			
<b>CHILDREN'S HOSPITAL MEDICAL CENTER OF NORTHERN CALIFORNIA ZIP CODE 94609</b>			
ABRAHAM, SAMUEL.....	ALTERED GENOME EXPRESSION IN PRENEOPLASIA AND NEOPLASIA.....	5R01 CA11736-07	148,810
ABRAHAM, SAMUEL.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05467-08	45,525
BARTLEY, JOHN C.....	STUDY OF COORDINATION OF INTRACELLULAR ACTIVITIES.....	5R01 GM19837-04	58,621
CERIANI, ROBERTO L.....	USE OF CELL MEMBRANES TO ASSESS PHENOTYPIC EXPRESSION.....	1R01 CA19455-01	62,515
FELDMAN, MARTIN K.....	REGULATION OF MAMMARY EPITHELIUM IN CELL CULTURE.....	5R01 CA15764-02	71,536
FOSTER, ROY C.....	MILK SECRETION IN MAMMARY EPITHELIUM IN VITRO.....	5R01 HD09233-02	81,498
GREEN, GARY M.....	NUTRITIONAL SIGNIFICANCE OF INTESTINAL PROTEOLYSIS.....	5R01 AM17737-02	61,342
GREEN, GARY M.....	NUTRITIONAL SIGNIFICANCE OF INTESTINAL PROTEOLYSIS.....	5R01 AM17737-03	49,311
LUBIN, BERTRAM H.....	MECHANISM OF INHIBITION OF SICKLING BY IMIDO ESTERS.....	1R01 HL17357-01A1	43,718
MORETTI, RICHARD L.....	MECHANISMS IN LOCAL REGULATION OF CORONARY FLOW.....	1R01 HL18979-01	15,360
MORETTI, RICHARD L.....	LOCAL REGULATION OF CORONARY FLOW BY PROSTAGLANDINS.....	1R01 HL19218-01	49,390
SMITH, STUART.....	STRUCTURE AND SPECIFICITY OF LIPOGENIC ENZYMES.....	5R01 AM16073-03	47,836
ORGANIZATION TOTAL	12	735,462	
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE ZIP CODE 94612</b>			
HESTORFF, ROBERT D.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	3R10 CA14488-03S1	7,310
SADUSK, JESSEPH F, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05521-14	55,896



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
ORGANIZATION TOTAL	2	63,206	
<b>PALO ALTO</b>			
<b>AMERICAN INSTITUTES FOR RESEARCH ZIP CODE 94306</b>			
CARD, JOSEFINA J.	CROSS-CULTURAL STUDY OF FERTILITY CONTROL MOTIVATION	1R01 HD10684-01	42,321
MILLER, WARREN B.	PSYCHOLOGICAL FACTORS AND FERTILITY BEHAVIOR IN WOMEN	7R01 HD09887-01	71,753
MILLER, WARREN B.	PSYCHOLOGICAL FACTORS AND FERTILITY BEHAVIOR IN WOMEN	5R01 HD09887-02	80,416
MILLER, WARREN B.	PSYCHOLOGICAL ASPECTS OF FERTILITY TERMINATION	7R01 HD10671-01	34,957
ORGANIZATION TOTAL	4	229,447	
<b>NORTHERN CALIFORNIA CANCER PROGRAM, INC. ZIP CODE 94304</b>			
ROSENBERG, SAUL A.	EXPLORATORY STUDIES IN CANCER RESEARCH	1P20 CA18406-01	86,384
ROSENBERG, SAUL A.	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	1P30 CA19408-01	357,743
ORGANIZATION TOTAL	2	444,127	
<b>PALO ALTO MEDICAL RESEARCH FOUNDATION ZIP CODE 94301</b>			
HOFSTEE, BAREND H.	PROTEIN FRACTIONATION ON HYDROPHOBICITY GRADIENTS	1R01 GM22545-01	53,491
INGELS, NEIL B. JR.	VENTRICULAR DYNAMICS FROM SURGICALLY INSERTED MARKERS	5R01 HL17993-02	231,757
KRUPP, MARCUS A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05513-14	44,553
LITTLE, HUNTER L.	ROLE OF ABNORMAL HEMORHEOLOGY IN DIABETIC RETINOPATHY	5R01 EY01254-02	86,035
REMINGTON, JACK S.	TOXOPLASMOIS: NATURE OF INFECTION & IMMUNE RESPONSE	5R01 AI04717-15	134,128
REMINGTON, JACK S.	ROLE OF TOXOPLASMA IN CANCER PREVENTION AND THERAPY	5R01 CA17545-02	58,894
ORGANIZATION TOTAL	6	608,858	
<b>PASADENA</b>			
<b>CALIFORNIA INSTITUTE OF TECHNOLOGY ZIP CODE 91125</b>			
ALLMAN, JOHN M.	FUNCTIONAL ORGANIZATION OF VISUAL CORTEX	5R01 NS12131-02	39,869
ALLMAN, JOHN M.	FUNCTIONAL ORGANIZATION OF VISUAL CORTEX	5R01 NS12131-03	39,580
ATTARDI, GIUSEPPE	GENE EXPRESSION AND CONTENT IN CELL DIFFERENTIATION	5R01 GM11726-13	217,451
BALDESCHWIELER, JOHN D.	STUDY OF BIOLOGICAL SYSTEMS BY NEW PHYSICAL METHODS	5R01 GM21111-04	89,736
BERGMAN, ROBERT G.	CHEMISTRY OF NONBENZENOID AROMATIC MOLECULES	5R01 CA15006-03	47,142
BERGMAN, ROBERT G.	METAL- AND MICELLE-CATALYZED CYCLIZATION REACTIONS	5R01 GM16231-08	65,893
BONNER, JAMES F.	MOLECULAR BASIS OF GENETIC CONTROL	5R01 GM13762-11	172,912
BROKAW, CHARLES J.	MECHANISMS OF MOVEMENT OF SIMPLE SPERM FLAGELLA	5R01 GM18711-05	63,481
BROKAW, CHARLES J.	COMPUTER SIMULATION OF SLIDING FILAMENT SYSTEMS	5R01 GM21931-02	31,794
CHAN, SUNNEY I.	STUDIES OF LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS	1R01 GM22432-01	132,849
CHAN, SUNNEY I.	STUDIES OF LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS	5R01 GM22432-02	139,118
DAVIDSON, ERIC H.	STUDY OF SEQUENCE STRUCTURE OF THE EUKARYOTIC GENOME	5P01 GM20927-02	185,784
DAVIDSON, ERIC H.	OGENESIS AND GENE CONTROL IN ANIMAL REPRODUCTION	5R01 HD05753-07	189,051
DAVIDSON, ERIC H.	YEAR ROUND S. PURPURATUS RESEARCH RESOURCE	5P40 RR00986-02	41,865
DAVIDSON, NORMAN R.	PHYSICAL CHEMISTRY OF NUCLEIC ACIDS	5R01 GM10991-17	119,840
DELBRUCK, MAX	THE LIGHT GROWTH RESPONSE CHANNEL OF PHYCOMYCES	5R01 GM21409-03	44,247
DERVAN, PETER B.	PROTEIN-NUCLEIC ACID CROSS-LINKING REAGENTS	1R01 GM22909-01	45,821
DICKERSON, RICHARD E.	STRUCTURE AND FUNCTION OF PROTEINS	5R01 GM21121-12	134,298
DREYER, WILLIAM J.	MOLECULAR STUDIES OF NEW TUMOR ANTIGENS	2R01 CA15926-03	63,148
EVANS, DAVID A.	ANTICANCER AND NEUROTOXIC ALKALOID SYNTHESIS	3R01 CA17904-01S1	7,250
EVANS, DAVID A.	PROSTAGLANDIN SYNTHESIS	5R01 GM21746-02	50,068
FENDER, DEREK H.	NONLINEAR IDENTIFICATION OF RETINAL BIOPOTENTIALS	5R01 EY01526-02	43,773
GAGNE, ROBERT R.	MODEL INORGANIC SYSTEMS FOR COPPER PROTEINS	5R01 AM18319-02	31,494
HARTMAN, RICHARD E.	HIGH RESOLUTION BIOLOGICAL ELECTRON MICROSCOPY	5R01 GM18619-04	125,936
HEYSER, RICHARD C.	MEDICAL ULTRASONIC TOMOGRAPHIC SYSTEM	1R01 GM23094-01	78,396
HOOD, LEROY E.	GENETICS OF ANTIBODY DIVERSITY, EXPRESSION AND EVOLUTION	5R01 AI10781-05	116,000
HOOD, LEROY E.	GENETICS OF ANTIBODY DIVERSITY, EXPRESSION AND EVOLUTION	5R01 AI10781-06	137,405
HUDSPETH, ALBERT J.	TRANSDUCTION MECHANISM OF HAIR CELLS	1R01 NS13154-01	81,279
IRELAND, ROBERT E.	PREPARATION OF FUSIDIC ACID AND MODIFIED STEROIDS	5R01 AM14160-07	66,999
IRELAND, ROBERT E.	THE SYNTHESIS OF APHIDIOLIN AND TIRANDAMYCIN	5R01 CA18191-02	45,762
KONOPKA, RONALD J.	GENETIC AND NEURAL ORGANIZATION OF A CIRCADIAN SYSTEM	5R01 GM22227-02	53,852

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
LESTER, H. ALLEN.....	CONDUCTANCE OF NICOTINIC ACETYLCHOLINE RECEPTORS.....	5R01 NS11756-03	61,619
LEWIS, EDWARD B.....	GENETIC CONTROL OF DEVELOPMENTAL PATHWAYS.....	5R01 HD06331-05	62,411
MARSH, RICHARD E.....	CRYSTAL STRUCTURE STUDIES ON COMPOUNDS RELATED TO DNA.....	2R01 GM16966-07	71,220
MC CANN, GILBERT D.....	STUDY OF CEREBRAL AND RELATED SYSTEMS.....	5P01 NS03627-14	328,261
NORRIS, DAVID D.....	AN INTEGRATING ELECTRO-OPTICAL MS ION DETECTOR.....	5R01 GM20850-02	88,498
RAFTERY, MICHAEL A.....	NEUROCHEMISTRY AND KINETICS OF SYNAPTIC TRANSMISSION.....	5R01 NS10294-05	78,306
RAFTERY, MICHAEL A.....	CHEMISTRY AND KINETICS OF AXONAL CONDUCTION.....	5R01 NS12018-10	84,238
RAFTERY, MICHAEL A.....	CHEMISTRY AND KINETICS OF AXONAL CONDUCTION.....	5R01 NS12018-11	82,927
REVEL, JEAN P.....	MOLECULAR BASIS OF SPECIFICITY IN CELLULAR MEMBRANES.....	5P01 GM06965-17	532,875
RICHARDS, JOHN H.....	MECHANISM OF ENZYME ACTION.....	5R01 GM10218-14	49,782
RICHARDS, JOHN H.....	ENZYME SYSTEMS USING NUCLEAR MAGNETIC RESONANCE.....	5R01 GM16424-08	84,723
RICHARDS, JOHN H.....	HEME PROTEINS, ERYTHROCYTES, AND SICKLE CELL ANEMIA.....	5R01 HL15198-04	51,172
ROBERTS, JOHN D.....	NITROGEN-15 AND CARBON-13 NMR SPECTROSCOPY.....	5R01 GM11072-14	70,219
RUSSELL, RICHARD L.....	GENETIC VARIANTS OF SYNAPTIC PROTEINS.....	5R01 NS09654-06	23,503
SCHAEFER, WILLIAM P.....	X-RAY STUDY OF OXYGEN-CARRYING COBALT COMPLEXES.....	3R01 HL12395-07S1	8,570
SCHAEFER, WILLIAM P.....	X-RAY STUDY OF OXYGEN-CARRYING COBALT COMPLEXES.....	2R01 HL12395-08	34,581
SCHROEDER, WALTER A.....	STRUCTURE-FUNCTION RELATIONSHIPS IN THE HEME PROTEINS.....	5R01 HL02558-20	136,769
SINSHEIMER, ROBERT L.....	STRUCTURE AND REPLICATION OF BACTERIAL VIRUSES.....	5R01 AI12683-11	206,650
SINSHEIMER, ROBERT L.....	STRUCTURE AND REPLICATION OF BACTERIAL VIRUSES.....	5R01 AI12683-12	209,466
SINSHEIMER, ROBERT L.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07003-11	195,342
STRAUSS, JAMES H.....	A GENETIC ANALYSIS OF SINDBIS VIRUS.....	5R01 AI10793-05	60,944
STROUD, ROBERT M.....	STRUCTURE AND FUNCTION OF PROTEINS AT MOLECULAR LEVEL.....	2R01 GM19984-04	83,339
STRUMWASSER, FELIX.....	MECHANISMS OF INNATE AND ENTRAINED PATTERNS IN NEURONS.....	5R01 NS07071-10	101,043
VINOGRAD, JEROME.....	CIRCULAR DNA FROM ONCOGENIC VIRUSES AND MITOCHONDRIA.....	5R01 CA08014-12	311,471
VINOGRAD, JEROME.....	ULTRACENTRIFUGAL STUDIES OF BIOLOGICAL MACROMOLECULES.....	5R01 GM15327-18	62,213
WAYLAND, HAROLD.....	QUANTITATION OF FLOW AND SOLUTE FLUX IN MICROVESSELS.....	2R01 HL08977-12	148,277
WOOD, WILLIAM B.....	BIOCHEMISTRY AND GENETIC CONTROL OF VIRUS ASSEMBLY.....	3R01 AI09238-07S1	13,050
WOOD, WILLIAM B.....	BIOCHEMISTRY AND GENETIC CONTROL OF VIRUS ASSEMBLY.....	2R01 AI09238-08	136,255
ORGANIZATION TOTAL	59 6,079,817		
<b>HUNTINGTON MEMORIAL HOSPITAL ZIP CODE 91105</b>			
KETENIAN, ARA Y.....	MECHANISMS OF CALCIFICATION IN FRACTURE HEALING.....	7R01 AM19462-01	61,110
ORGANIZATION TOTAL	1 61,110		
<b>PASADENA FOUNDATION FOR MEDICAL RESEARCH ZIP CODE 91101</b>			
KAIGHN, M. EDWARD.....	MONOLAYER CULTURES OF HUMAN PROSTATIC CARCINOMA.....	7R26 CA19826-01	84,635
ORGANIZATION TOTAL	1 84,635		
<b>REDLANDS</b>			
<b>UNIVERSITY OF REDLANDS ZIP CODE 92373</b>			
IFFT, JAMES B.....	PHYSICAL CHEMISTRY OF PROTEINS IN SALT SOLUTIONS.....	5R01 GM18871-09	51,506
ORGANIZATION TOTAL	1 51,506		
<b>RIVERSIDE</b>			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT RIVERSIDE ZIP CODE 92502</b>			
BARTNICKI-GARCIA, SALOMON.....	BIOCHEMISTRY OF MORPHOGENESIS IN MUCOR ROUXII.....	5R01 AI05540-12	38,726
CASTRO, CHARLES E.....	THE OXIDATION AND REDUCTION OF HEMEPROTEINS.....	5R01 AM17936-02	33,715
CASTRO, CHARLES E.....	THE OXIDATION AND REDUCTION OF HEMEPROTEINS.....	5R01 AM17936-03	33,616
FURLONG, CLEMENT E.....	INVESTIGATIONS OF MEMBRANE TRANSPORT SYSTEMS.....	5R01 GM18311-05	32,179
GIBIAN, MORTON J.....	STUDIES ON PROSTAGLANDIN SYNTHETASE AND LIPOXYGENASE.....	5R01 GM21903-02	37,538
HEATH, ROBERT L.....	ALTERATIONS OF CELL MEMBRANES AND METABOLISM BY OZONE.....	5R01 ES01204-02	37,520
HELMKAMP, GEORGE K.....	SYNTHESIS OF POTENTIAL NEW PSYCHOACTIVE MOLECULES.....	5R01 GM20602-02	43,407
HOLTEN, DAROLD D.....	NUTRITIONAL-HORMONAL CONTROL OF G-6-PD DEHYDROGENASE.....	5R01 AM13324-08	52,502
MUDD, JOHN B.....	BIOCHEMICAL EFFECTS OF AIR POLLUTANT OXIDANTS.....	5R01 ES00917-02	56,887
MULLA, MIR S.....	HOUSE-DUST MITES & ALLERGY, PREVENTIVE MEASURE & CONTROL.....	5R01 AI11329-02	36,954
NOLTMANN, ERNST A.....	STUDIES ON PHOSPHOHEXOSE ISOMERASES.....	2R01 AM07203-14	87,089
NORMAN, ANTHONY W.....	STUDIES ON VITAMIN D AND CALCIUM METABOLISM.....	3R01 AM09012-11S1	24,086

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
NORMAN, ANTHONY W	STUDIES ON VITAMIN D AND CALCIUM METABOLISM	2R01 AM09012-12	55,909
NORMAN, ANTHONY W	STUDIES ON VITAMIN D METABOLISM IN HUMANS	5R01 AM14750-05	70,713
NORMAN, ANTHONY W	STUDIES ON VITAMIN D METABOLISM IN HUMANS	5R01 AM14750-06	71,463
OKAMURA, WILLIAM H	PREPARATION OF VITAMIN D ANALOGS AND METABOLITES	5R01 AM16595-03	55,100
OLSEN, RICHARD W	MOLECULAR MECHANISMS OF NEUROTRANSMITTER ACTION	5R01 NS12422-02	22,814
PENGELLEY, ERIC T	ULTRASTRUCTURE AND LIPID ANALYSIS OF HIBERNATOR HEARTS	5R01 HL13532-06	39,580
PETRINOVICH, LEWIS F	SPECIES - MEANINGFUL STUDIES OF HABITUATION	3R01 HD04343-05S1	2,317
PLATZER, EDWARD G	FOLATE METABOLISM IN MALARIAL PARASITES	5R01 AI11254-03	20,680
REID, BRIAN R	ENZYMATIC RECOGNITION OF TRANSFER OF RNA	5R01 CA11697-05	49,760
REID, BRIAN R	ENZYMATIC RECOGNITION OF TRANSFER OF RNA	5R01 CA11697-06	47,716
RIESEN, AUSTIN H	VISION IN SPECIAL ENVIRONMENTS—DEVELOPMENTAL EFFECTS	3R01 EY00573-12S2	2,163
RIESEN, AUSTIN H	SOMATOSENSORY DEPRIVATION: BRAIN-BEHAVIORAL EFFECTS	9R01 HD10408-13A1	23,531
SAWYER, DONALD T	MN COMPLEXES AS MODELS FOR SOD AND O2 PHOTOSYNTHESIS	1R01 GM22761-01	56,212
SHERMAN, IRWIN W	HOST-PARASITE INTERRELATIONSHIPS IN THE MALARIAS	2R01 AI05226-12	60,369
SHERMAN, IRWIN W	MEMBRANE STUDIES WITH MALARIAL PARASITES	1R01 AI13422-01	70,015
THOMSON, WILLIAM W	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07010-11	61,795
TRAUGH, JOLINDA A	EFFECTS OF RIBOSOME PHOSPHORYLATION ON TRANSLATION	5R01 GM21424-02	33,927
ORGANIZATION TOTAL	29	1,258,283	
<b>SACRAMENTO</b>			
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY ZIP CODE 95814</b>			
DUNN, JOHN E, JR	INCIDENCE OF INVASIVE CERVICAL CANCER	1R01 CA19846-01	36,622
LENNETTE, EDWIN H	STUDIES ON THE PATHOGENESIS OF NAEGLERIA INFECTIONS	1R01 AI13345-01	57,842
PAFFENBARGER, RALPH S, JR	REPRODUCTIVE CAPACITY AND BREAST OR OVARY CANCER RISK	5R01 CA17838-02	198,024
PAFFENBARGER, RALPH S, JR	EPIDEMIOLOGIC STUDY OF ENDOMETRIAL CANCER	1R01 CA18401-01	101,943
ORGANIZATION TOTAL	4	394,431	
<b>SAN DIEGO</b>			
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—SAN DIEGO STATE UNIVERSITY ZIP CODE 92115</b>			
ABBOTT, MITCHEL T	ENZYMOLGY OF THE OXIDATIVE METABOLISM OF THYMININE	5R01 AM09314-12	30,594
DAHMS, A STEPHEN	CHEMICAL PROBES AT MEMBRANE STRUCTURE AND FUNCTION	5R01 GM22197-02	43,433
LEBHERZ, HERBERT G	REGULATION OF ALDOLASE SYNTHESIS	1R01 GM23045-01	61,312
ORGANIZATION TOTAL	3	135,339	
<b>CHILDREN'S HOSPITAL AND HEALTH CENTER ZIP CODE 92123</b>			
SCHULMAN-GALAMBOS, CAROL A	AUDITORY FUNCTION IN INFANCY	7R01 HD10636-01	43,292
SUTHERLAND, DAVID H	GAIT STUDY OF NORMAL CHILDREN IN THEIR GROWING YEARS	1R01 HD08520-01A2	94,259
ORGANIZATION TOTAL	2	137,551	
<b>LABORATORY FOR COMPARATIVE BIOCHEMISTRY ZIP CODE 92109</b>			
BARTLETT, GRANT R	RED CELL METABOLISM	5R01 HL06950-15	60,140
BARTLETT, GRANT R	RED CELL STORAGE AND TRANSFUSION	5R01 HL16931-02	89,568
ORGANIZATION TOTAL	2	149,708	
<b>LEONELL C. STRONG RESEARCH FOUNDATION ZIP CODE 92121</b>			
STRONG, LEONELL C	GENETIC STUDIES ON CANCER CONTROL	3R01 CA13862-03S1	30,375
ORGANIZATION TOTAL	1	30,375	
<b>MERCY HOSPITAL AND MEDICAL CENTER ZIP CODE 92103</b>			
GELLER, JACK	EFFECT OF PROGESTERONE ON PROSTATE SIZE AND MORPHOLOGY	5R01 CA12448-06	47,946
GELLER, JACK	BIOCHEMICAL STUDY OF PROSTATE CANCER DIFFERENTIATION	1R26 CA18003-01A1	28,564
ORGANIZATION TOTAL	2	76,510	
<b>ZOOLOGICAL SOCIETY OF SAN DIEGO ZIP CODE 92112</b>			
LASLEY, BILLY L	STEROID LEVELS IN THE NINE-BANDED ARMADILLO	1R01 HD10190-01	30,764
RYDER, OLIVER A	COMPARATIVE MOLECULAR CYTOGENETICS	1R01 GM23073-01	56,715
ORGANIZATION TOTAL	2	87,479	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
<b>SAN FRANCISCO</b>			
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—SAN FRANCISCO STATE UNIVERSITY      ZIP CODE 94132</b>			
AINSWORTH, CAMERON.....	NEW SYNTHESIS OF BIOLOGICAL COMPOUNDS.....	5R01 GM19925-03	19,908
LINQUIST, ROBERT N.....	MECHANISMS IN ENZYMATIC CATALYSIS.....	5R01 GM20817-03	18,003
PLACHY, WILLIAM Z.....	MOLECULAR OXYGEN IN BIOLOGICAL FLUIDS.....	1R01 HL19065-01	29,996
ORGANIZATION TOTAL	3      67,907		
<b>CHILDREN'S HOSPITAL OF SAN FRANCISCO      ZIP CODE 94118</b>			
SPITLER, LYNN E.....	TRANSFER FACTOR THERAPY.....	7R01 AI13399-01	116,971
SPITLER, LYNN E.....	TRANSFER FACTOR THERAPY.....	5R01 AI13399-02	84,280
SPITLER, LYNN E.....	CELLULAR IMMUNITY IN MULTIPLE SCLEROSIS.....	7R01 NS12978-01	63,965
SPITLER, LYNN E.....	CELLULAR IMMUNITY IN MULTIPLE SCLEROSIS.....	5R01 NS12978-02	66,577
ORGANIZATION TOTAL	4      331,793		
<b>INSTITUTES OF MEDICAL SCIENCES      ZIP CODE 94120</b>			
ADELSON, JOEL W.....	CHYMOTENIN: STIMULATION OF ENZYME-SELECTIVE SECRETION.....	7R01 AM19973-01	71,660
BACH-Y-RITA, PAUL.....	PERIPHERAL NEUROPHYSIOLOGY OF EYE MOVEMENTS.....	3R01 EY01474-01A1S1	21,206
COGAN, ALEXANDER I.....	INTEROCULAR SUPPRESSION IN STRABISMUS.....	1R01 EY01558-01A1	49,858
COLLINS, CARTER C.....	PORTABLE SEEING AID.....	5R01 EY00686-05	78,487
COLLINS, CARTER C.....	HUMAN OCULOMOTOR MOTILITY.....	1R01 EY01719-01	73,305
FALLAT, ROBERT J.....	ALPHA-1-ANTITRYPSIN DEFICIENCY & PULMONARY DISEASE.....	5R01 HL14692-05	60,328
GLASER, CHARLES B.....	COMPARISON OF TWO INHERITED FORMS OF ALPHA-1-ANTITRYPSIN.....	5R01 HL17194-02	46,382
HILL, J DONALD.....	CEREBRAL FAT EMBOLI ASSOCIATED WITH CARDIAC SURGERY.....	5R01 HL14926-03	76,484
JAMPOLSKY, ARTHUR.....	STUDY OF VISUAL SCIENCES.....	2P30 EY01186-04	145,078
JAMPOLSKY, ARTHUR.....	CLINICAL STRABISMUS CENTER GRANT.....	5P50 EY01585-02	138,139
LEVY, JOSEPH V.....	HYPERTENSION AND CAPO PUMP FUNCTION OF ARTERIAL MUSCLE.....	5R01 HL16777-02	44,588
NAKAYAMA, KEN.....	THREE-DIMENSIONAL EYE ROTATION MEASUREMENTS: STRABISMUS.....	5R01 EY01582-02	43,840
OSBORN, JOHN J.....	PREVENTION OF BLOOD DAMAGE DURING SURGICAL PERFUSION.....	5R01 HL17454-02	30,875
PERSIDSKY, MAXIM D.....	LONG-TERM BANKING OF BONE MARROW FOR CLINICAL USE.....	5R01 CA12754-05	98,183
PETZ, LAWRENCE D.....	IMMUNE TISSUE INJURY - MECHANISM AND CLINICAL RELEVANCE.....	5R01 NS12364-02	84,850
SAUNDERS, FRANK A.....	WEARABLE ELECTROTACTILE VOCODER FOR THE DEAF.....	2R01 NS09714-02A4	79,445
SAUNDERS, FRANK A.....	WEARABLE ELECTROTACTILE VOCODER FOR THE DEAF.....	5R01 NS09714-03	80,490
WILLIAMS, GEORGE Z.....	NORMAL HEALTH PROFILE STUDY.....	5R01 GM17369-07	591,784
WILLIAMS, GEORGE Z.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05566-13	128,903
ORGANIZATION TOTAL	19      1,943,885		
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE      ZIP CODE 94115</b>			
HENDRICKSON, CHARLES G.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	3R10 CA14449-03S1	6,905
ORGANIZATION TOTAL	1      6,905		
<b>MOUNT ZION HOSPITAL AND MEDICAL CENTER      ZIP CODE 94115</b>			
BEADNER, SOL A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05472-14	28,430
CASTRO, JOSEPH R.....	EXPLORATORY STUDIES FOR CANCER PATIENT REHABILITATION.....	5R18 CA16873-02	119,648
FINLEY, THEODORE N.....	ALVEOLAR MACROPHAGE FUNCTION IN THE IMPAIRED HOST.....	5R01 HL17495-02	39,843
FINLEY, THEODORE N.....	ALVEOLAR MACROPHAGE FUNCTION IN THE IMPAIRED HOST.....	5R01 HL17495-03	46,134
FRIEDMAN, MEYER.....	REGULATION OF CHOLESTEROL AND PHOSPHATIDE METABOLISM.....	3R01 HL00119-26S1	45,260
LEEDS, SANFORD E.....	RELATION OF LYMPHATICS TO CARDIOPULMONARY FUNCTION.....	5R01 HL03180-19	67,079
ROSENMAN, RAY H.....	CENTRAL NERVOUS SYSTEM AND CORONARY HEART DISEASE.....	3R01 HL03429-16S1	12,774
ROSENMAN, RAY H.....	CENTRAL NERVOUS SYSTEM AND CORONARY HEART DISEASE.....	2R01 HL03429-17	66,799
SILVERBERG, IVAN J.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	3R10 CA14442-03S1	18,939
WOEBER, KENNETH A.....	FACTORS REGULATING THYROID HORMONE.....	7R01 AM19081-01	42,036
WOEBER, KENNETH A.....	FACTORS REGULATING THYROID HORMONE METABOLISM.....	5R01 AM19081-02	43,837
ORGANIZATION TOTAL	11      530,779		
<b>SAN FRANCISCO HEARING AND SPEECH CENTER      ZIP CODE 94115</b>			
COMPTON, ARTHUR J.....	GENERATIVE STUDIES OF THE SOUND SYSTEMS OF CHILDREN.....	3R01 HD07185-03S1	14,184
ORGANIZATION TOTAL	1      14,184		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
<b>SCIENTIFIC ANALYSIS CORPORATION</b>		<b>ZIP CODE 94123</b>	
MILLER, DOROTHY L.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR05782-01	29,130
ORGANIZATION TOTAL	1 29,130		
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL</b>		<b>ZIP CODE 94118</b>	
SMITH, WILLIAM M.....	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION.....	5R01 HL10711-10	140,979
SMITH, WILLIAM M.....	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION.....	5R01 HL10711-11	152,028
VAILLANCOURT, JOHN A.....	COOPERATIVE STUDY ON TREATMENT OF HYPERTENSION.....	5R01 HL10712-10	67,174
WELCH, THEODOSIA M.....	PHARMACOLOGY AND BIOLOGY OF EXPERIMENTAL LEPROSY.....	5R22 A07801-10	74,083
ORGANIZATION TOTAL	4 434,264		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO</b>		<b>ZIP CODE 94143</b>	
ABLIN, ARTHUR R.....	CHILDREN'S CANCER STUDY GROUP.....	3R10 CA17829-01S1	15,755
ADELSON, JOEL W.....	CHYMOTRYPSIN: STIMULATION OF ENZYME-SELECTIVE SECRETION.....	5R01 AM17942-02	62,384
ADMIRAND, WILLIAM H.....	ROLE OF LITHOCHOLATE IN DISEASE OF THE HUMAN LIVER.....	5R01 AM13857-06	55,006
ALBERTS, BRUCE M.....	DNA-PROTEIN INTERACTIONS IN DNA-REPLICATION CONTROL.....	7R01 GM24020-01	89,412
ALY, RAZA.....	SURVIVAL OF PATHOGENIC MICROORGANISMS ON HUMAN SKIN.....	5R01 A110856-04	42,321
APPLE, MARTIN A.....	DRUGS PREVENTING ONCORNAVIRUS CANCERS: ANTHRACYCLINES.....	5R01 CA14894-03	60,222
ARIEFF, ALLEN I.....	BLOOD BRAIN BARRIER AND CARBOHYDRATE METABOLISM.....	5R01 AM18350-02	38,221
ARIEFF, ALLEN I.....	BLOOD BRAIN BARRIER AND CARBOHYDRATE METABOLISM.....	5R01 AM18350-03	50,061
ARIEFF, ALLEN I.....	TREATMENT OF BRAIN EDEMA DUE TO METASTATIC CANCER.....	5R01 CA18043-02	63,047
BAINTON, DOROTHY F.....	MATURATION AND FUNCTION OF WBC AND MEGAKARYOCYTES.....	5R01 AM10486-11	57,266
BAINTON, DOROTHY F.....	PATHOLOGY OF CELL DIFFERENTIATION IN LEUKEMIA.....	5R01 CA14264-04	44,387
BAUMRIND, SHELTON.....	DENTOFACIAL EFFECTS OF FORCES TO RETRACT THE MAXILLA.....	5R01 DE03598-04	48,406
BAXTER, JOHN D.....	MECHANISM OF THYROID HORMONE ACTION.....	1R01 AM18878-01	59,860
BAXTER, JOHN D.....	MECHANISM OF HORMONE HYPERRESPONSIVENESS IN GLAUCOMA.....	1R01 EY01785-01	69,928
BAXTER, JOHN D.....	ROLE OF STEROIDS IN HYPERTENSION.....	5R01 HL16918-03	44,302
BHATNAGAR, RAJENDRA S.....	REGULATION OF COLLAGEN BIOSYNTHESIS.....	5R01 DE03861-03	66,912
BHATNAGAR, RAJENDRA S.....	BIOCHEMISTRY OF LUNG CONNECTIVE TISSUES.....	1R01 HL19668-01	91,208
BIGLIERI, EDWARD G.....	SECRETORY STEROID MIXTURES OF ADRENAL CORTEX.....	5R01 AM06415-14	75,531
BIGLIERI, EDWARD G.....	SECRETORY STEROID MIXTURES OF ADRENAL CORTEX.....	5R01 AM06415-15	77,111
BIGLIERI, EDWARD G.....	RENIN, ANGIOTENSIN, STEROIDS, IONS, AND BLOOD PRESSURE.....	5R01 HL11046-10	56,894
BISHOP, J MICHAEL.....	ROUS SARCOMA VIRUS: REPLICATION AND CELL TRANSFORMATION.....	5R01 CA12705-05	334,268
BISHOP, J MICHAEL.....	ROUS SARCOMA VIRUS: REPLICATION AND CELL TRANSFORMATION.....	5R01 CA12705-06	414,559
BISSELL, DWIGHT M, JR.....	REGULATION OF BIOTRANSFORMATION IN THE LIVER.....	5R01 GM21042-03	32,724
BLAISDELL, F WILLIAM.....	TRAUMA RESEARCH PROGRAM.....	5P50 GM18470-05	247,963
BLAISDELL, F WILLIAM.....	INTRAVASCULAR COAGULATION IN THE BURN PATIENT.....	1R01 GM24033-01	86,001
BOHANNON, RICHARD A.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	3R01 CA14518-03S1	6,510
BOLDREY, EDWIN B.....	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE.....	5R01 NS12497-02	18,018
BRADLEY, THOMAS B, JR.....	STUDIES OF ABNORMAL HEMOGLOBINS AND FIBRINOGENS.....	2R01 HL15329-04	55,082
BRADLEY, THOMAS B, JR.....	STUDIES OF ABNORMAL HEMOGLOBINS AND FIBRINOGENS.....	5R01 HL15329-05	47,469
BRECHER, GEORGE.....	HEMOPOIETIC DIFFERENTIATION. MACROCYTIC ANEMIA.....	2R01 CA14679-04	63,922
BRECHER, GEORGE.....	AUTOMATED DATA PROCESSING FOR CLINICAL LABORATORIES.....	3R01 GM14905-09S1	10,065
BRENNER, BARRY M.....	CONTROL OF FLUID ABSORPTION BY THE MAMMALIAN NEPHRON.....	2R01 AM13888-07	61,231
BROWN, KENNETH T.....	NEUROPHYSIOLOGY OF THE VERTEBRATE RETINA.....	5R01 EY00468-17	157,501
BYERS, VERA S.....	HUMAN TRANSFER FACTOR, IN VITRO PRODUCTION & ASSAY.....	1R01 A113157-01	90,900
BYERS, VERA S.....	HUMAN TRANSFER FACTOR, IN VITRO PRODUCTION & ASSAY.....	1R01 CA21042-01	37,553
CALARCO, PATRICIA G.....	INTRACISTERNAL A PARTICLES IN MOUSE DEVELOPMENT.....	5R01 CA16493-02	55,531
CASEY, WILLIAM J.....	APPLICATION OF EXPERIMENTAL ANIMAL MODELS TO GLAUCOMA.....	5R01 EY00418-08	73,426
CHAR, DEVRON H.....	UVEITIS: SPECIFIC AND NONSPECIFIC CELLULAR REACTIVITY.....	1R01 EY01759-01	61,594
CLEMENTS, JOHN A.....	PULMONARY SCOR: NEONATAL RESPIRATORY DISTRESS SYNDROMES.....	1P50 HL19185-01	605,049
COMROE, JULIUS H, JR.....	SUPPORT FOR PULMONARY DISEASE RESEARCH CENTER.....	3P50 HL14201-05S2	725,279
CONNELL, CAROLYN J.....	THE EFFECT OF HCG ON SERTOLI CELLS.....	5R01 HD10033-02	41,391
COOKE, ROGER.....	THE MOLECULAR MECHANISM OF MUSCLE CONTRACTION.....	5R01 AM17559-03	26,745
CREASY, ROBERT K.....	RESPONSES OF THE GROWTH RETARDED FETUS TO ACUTE STRESS.....	2R01 HD06619-04	82,097
DAENTLI, DONNA L.....	EMBRYO SIZE & NUCLEOTIDE SYNTHESIS, A CANCER STUDY.....	5R01 HD07061-03	62,115
DALLMAN, PETER R.....	CELLULAR ADAPTATIONS TO IRON DEFICIENCY.....	2R01 AM13897-07A1	99,307
DAWSON, CHANDLER R.....	ANALYSIS OF PROBLEMS IN OCULAR INFLAMMATORY DISEASES.....	3R01 EY00427-06S1	64,954
DAWSON, CHANDLER R.....	ANALYSIS OF PROBLEMS IN OCULAR INFLAMMATORY DISEASES.....	2R01 EY00427-07	115,554

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
DAWSON, CHANDLER R.	PATHOGENESIS AND EARLY DIAGNOSIS OF EYE INFLAMMATIONS	5R01 EY01198-03	50,158
DEDO, HERBERT H.	STUDIES ON LARYNX AND PHARYNX NEUROPHYSIOLOGY	5R01 NS06527-10	38,673
DENNIS, MICHAEL J.	PHYSIOLOGY OF SYNAPSES DEVELOPING IN VIVO	2R01 NS10792-04	72,062
DIAMOND, IVAN F.	PHOTODYNAMIC THERAPY OF MALIGNANT TUMORS	5R01 CA15341-03	35,077
DIAMOND, IVAN F.	CHOLINE AND ACETYLCHOLINE TRANSPORT AND METABOLISM	5R01 NS08674-07	37,652
DOBBS, LELAND G.	SECRETION OF SURFACTANT BY TYPE II ALVEOLAR CELLS	1R23 HL19518-01	40,260
DRUMMOND, WILLA H.	MECHANISMS OF FETAL AND NEONATAL ASPHYXIC SYNDROMES	1R01 HD10682-01	53,345
DUNLAP, MARJORIE S.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05604-04	20,534
DURBIN, RICHARD P.	SURFACE ENZYMES OF INTACT GASTRIC MUCOSA	1R01 AM18395-01	64,864
EBERT, PAUL A.	EVALUATION OF REJECTION OF CARDIAC TRANSPLANTS	5R01 HL18837-02	70,885
EDELMAN, ISIDORE S.	CELL MEMBRANE DETERMINANTS OF NaCl TRANSPORT IN SKIN	5R01 AM13659-06	43,570
ELIAS, HANS	GROWTH OF INTRAHEPATIC BILE DUCTS (CHOLANGIOGENESIS)	1R01 AM19171-01	38,969
ELIAS, PETER M.	NATURE OF THE MAMMALIAN CUTANEOUS PERMEABILITY BARRIER	1R01 AM19098-01	48,864
EPSTEIN, CHARLES J.	STUDY OF HUMAN GENETICS	5P50 GM19527-05	560,306
EPSTEIN, CHARLES J.	BIOCHEMISTRY OF EARLY MAMMALIAN DEVELOPMENT	5R01 HD03132-09	84,546
EPSTEIN, ERVIN H., JR.	GLUCOCORTICOID INTERACTION WITH HUMAN SKIN	5R01 AM18495-02	56,314
EPSTEIN, JOHN H.	CHEMOTHERAPEUTIC AGENTS AND ULTRAVIOLET CARCINOGENESIS	5R01 CA15605-03	42,092
EPSTEIN, LOIS B.	INTERFERON AS A MEDIATOR OF CELLULAR IMMUNITY	5R01 AI12481-02	79,279
EPSTEIN, LOIS B.	THE ROLE OF INTERFERON IN HUMAN IMMUNITY TO TUMORS	5R01 CA14508-03	61,413
EPSTEIN, WILLIAM L.	STUDIES OF GRANULOMATOUS HYPERSENSITIVITY	2R01 AM07939-13	43,337
EPSTEIN, WILLIAM L.	STUDIES OF GRANULOMATOUS HYPERSENSITIVITY	5R01 AM07939-14	96,682
EPSTEIN, WILLIAM L.	COOPERATIVE CLINICAL STUDY OF MALIGNANT MELANOMA	5R10 CA13671-04	196,769
EPSTEIN, WILLIAM L.	COOPERATIVE CLINICAL STUDY OF MALIGNANT MELANOMA	5R10 CA13671-05	186,205
FAIRLEY, H. B.	ACUTE PULMONARY FAILURE: MECHANISMS MANAGEMENT	1R01 GM24023-01	96,492
FIELDING, CHRISTOPHER J.	REGULATION OF PLASMA TRIGLYCERIDE METABOLISM	1R01 HL18705-01	51,022
FIELDS, HOWARD L.	SPINORETICULAR MECHANISMS IN PAIN SENSATION	5R01 NS11529-02	17,588
FIELDS, HOWARD L.	SPINORETICULAR MECHANISMS IN PAIN SENSATION	5R01 NS11529-03	39,181
FISHMAN, NOEL H.	DETERMINANTS OF FETAL LAMB CARDIOVASCULAR DEVELOPMENT	3R01 HL15798-03S1	3,864
FISHMAN, ROBERT A.	EXPERIMENTAL METABOLIC ENCEPHALOPATHIES	5R01 NS07336-09	76,700
FISKE, MARJORIE	PROGRAM PROJECT IN HUMAN DEVELOPMENT AND AGING	5P01 AG00002-05	269,605
FORSHAM, PETER H.	STUDIES ON INSULIN RELEASE IN DIABETES	3R01 AM12763-05S1	32,094
FORSHAM, PETER H.	STUDIES IN PANCREATIC ISLET FUNCTION IN DIABETES	2R01 AM12763-06	44,927
FORSHAM, PETER H.	STUDIES IN PANCREATIC ISLET FUNCTION IN DIABETES	5R01 AM12763-07	76,927
FORSHAM, PETER H.	GENERAL CLINICAL RESEARCH CENTER FOR ADULTS	5M01 RR00079-14	1,018,151
FORSYTH, RALPH P.	ENVIRONMENTAL FACTORS IN HYPERTENSION	1R01 HL19204-01	64,376
FRICK, OSCAR L.	ALLERGIC DISEASES CENTER	5P50 AI11010-04	72,148
FRICK, OSCAR L.	A STUDY OF PATHOGENESIS OF ATOPIC DERMATITIS	5R01 AI13156-02	44,405
FRIEDMAN, MICHAEL A.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	3R10 CA03485-19S3	76,331
FRIEND, DANIEL S.	PATHOLOGICAL EFFECTS OF VASECTOMY ON PERMEABILITY	3R01 HD06895-03S1	6,710
FUKUYAMA, KIMIE	CYTOCHEMICAL STUDIES ON THE KERATINIZATION PROCESS	2R01 AM12433-09	107,007
GALLO, ROBERT V.	BRAIN REGULATION OF THE ANTERIOR PITUITARY	5R01 HD05577-05	71,745
GANONG, WILLIAM F.	NEURAL AND HUMORAL CONTROL OF ENDOCRINE FUNCTION	5P01 AM06704-14	315,620
GOLBUS, MITCHELL S.	MEIOTIC NON-DISJUNCTION IN MOUSE AND HUMAN OVA	5R01 HD09412-02	66,051
GOLDBERG, MELVIN L.	CYCLOC NUCLEOTIDE BINDING AND CONTENT IN MALIGNANCY	5R01 CA17242-02	75,132
GOLDSMITH, ROBERT S.	CHIGGER MITES OF THE WORLD: LEPTOTROMBIDIUM COMPLEX	2R01 LM02024-02	24,156
GOLDSTEIN, GARY W.	METABOLIC ACTIVITY OF CAPILLARIES	5R01 ES01164-02	55,563
GOLDSTONE, J.	IN VIVO STUDIES OF THE GASTRIC MICROCIRCULATION	1R01 AM19248-01	43,330
GONDOS, BERNARD	GONADAL DIFFERENTIATION IN THE HUMAN FETUS	2R01 HD08202-04	42,047
GONDOS, BERNARD	STRUCTURAL MATURATION OF THE PREPUBERTAL RABBIT TESTIS	5R01 HD08940-03	35,799
GOODMAN, HOWARD M.	TUMOR VIRUS, PLASMID & CELL ANALYSIS	2R01 CA14026-04	184,121
GOODMAN, HOWARD M.	TUMOR VIRUS, PLASMID & CELL ANALYSIS	5R01 CA14026-05	192,573
GOODMAN, JOEL W.	STRUCTURE OF IMMUNOLOGIC DETERMINANTS OF PROTEINS	5R01 AI05664-13	76,912
GOODMAN, JOEL W.	INDUCTION OF CELLULAR IMMUNITY TO HAPTENS	5R01 AI11983-03	61,920
GOYAN, JERE E.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05453-14	93,971
GRILLO, MARY A.	STRUCTURE OF SYMPATHETIC INTERNEURONS AND RELATED CELLS	5R01 NS11993-02	64,934
GRILLO, MARY A.	STRUCTURE OF SYMPATHETIC INTERNEURONS AND RELATED CELLS	5R01 NS11993-03	63,706
GRODSKY, GEROLD M.	INSULIN AND GLUCAGON SYNTHESIS AND SECRETION IN VITRO	2R01 AM01410-18	120,468
GRUMBACH, MELVIN M.	HORMONAL EFFECTS ON GROWTH AND MATURATION	5R01 HD02335-11	108,859
GUTHRIE, CHRISTINE	BIOSYNTHESIS OF BACTERIOPHAGE T4 TRANSFER RNAs	5R01 GM21119-03	39,396
HAASE, ASHLEY T.	REPLICATION OF THE SLOW VIRUS VISNA	2R01 NS11782-02	63,224

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
HALL, JOAN M.	THE NATURE AND SEQUENCE OF OCULAR IMMUNE RESPONSES	5R01 EY01182-02	47,892
HALL, ZACH W.	POSTSYNAPTIC PROTEINS AT THE NEUROMUSCULAR JUNCTION	7R01 NS13521-01	24,830
HAMILTON, WILLIAM K.	ANESTHESIA RESEARCH PROGRAM	5P50 GM15571-08	582,210
HAMMERMAN, KENNETH J.	BILE SALT TRANSPORT IN HEPATOCYTES	5R01 AM17785-03	69,551
HARVOLD, EGIL P.	EXPERIMENTAL STUDY ON THE ETIOLOGY OF MALOCCLUSION	5R01 DE02739-07	140,969
HARVOLD, EGIL P.	EXPERIMENTAL STUDY ON THE ETIOLOGY OF MALOCCLUSION	5R01 DE02739-08	151,954
HATTNER, ROBERT S.	BRAIN TUMOR IMAGING USING A NOVEL POSITRON CAMERA	1R01 CA19020-01	46,155
HAVEL, RICHARD J.	CARDIOVASCULAR - RESPIRATORY PHYSIOLOGY AND BIOCHEMISTRY	5P01 HL06285-16	3,846,417
HAVEL, RICHARD J.	SUPPORT FOR ARTERIOSCLEROSIS CENTER	3P50 HL14237-05S1	338,824
HEUSER, JOHN E.	MORPHOLOGY OF SYNAPTIC VESICLE DISCHARGE AND RETRIEVAL	5R01 NS11979-02	41,873
HEYNEMAN, DONALD	INTERACTIONS OF LARVAL TREMATODES IN VECTOR SNAILS	5R22 AI07054-11	87,835
HINMAN, FRANK, JR.	FUNCTION AND DEFENSES OF URETHRAL EPITHELIUM	5R01 AM10045-10	47,528
HOGAN, MICHAEL J.	PATHOGENESIS OF MACULAR DEGENERATION	5R01 EY00799-05	45,002
HOLLENBERG, MILTON	GROWTH PROCESSES IN CARDIAC AND SKELETAL MUSCLE	5R01 HD07938-02	23,079
HOLLENBERG, MILTON	GROWTH PROCESSES IN CARDIAC AND SKELETAL MUSCLE	5R01 HD07938-03	26,396
HOROWITZ, MARDI J.	THE IMPACT OF STRESS ON CORONARY HEART DISEASE	5R01 HL17580-02	28,082
HOSHINO, TAKAO	UNPERTURBED AND PERTURBED CELL KINETICS OF BRAIN TUMORS	1R01 CA19992-01	46,483
HOSKINS, H DUNBAR, JR.	CONGENITAL GLAUCOMA: CLASSIFICATION, ETIOLOGY, THERAPY	1R01 EY01559-01	42,920
HOWES, EDWARD L, JR.	PATHOGENESIS OF ALTERED OCULAR VASCULAR PERMEABILITY	5R01 EY00056-07	37,498
HUNT, THOMAS K.	A STUDY OF WOUND HEALING AND WOUND INFECTION	2R01 GM12829-11	133,616
HUNT, THOMAS K.	A STUDY OF WOUND HEALING AND WOUND INFECTION	5R01 GM12829-12	127,603
JAFFE, ROBERT B.	REGULATION OF THE HUMAN HYPOTHALAMIC-PITUITARY SYSTEM	5R01 HD08033-03	64,022
JAFFE, ROBERT B.	PRIMATE ENDOCRINE REGULATION IN THE PERINATAL PERIOD	5R01 HD08478-02	85,638
JAMES, THOMAS L.	MAGNETIC RESONANCE STUDIES OF SICKLE CELL DISEASE	1R01 AM19047-01	31,134
JAWETZ, ERNEST	VIRAL KERATOCONJUNCTIVITIS AND RELATED DISORDERS	3R01 EY00186-21S1	37,925
JAWETZ, ERNEST	VIRAL KERATOCONJUNCTIVITIS AND RELATED DISORDERS	2R01 EY00186-22	98,968
JEWETT, DON L.	SPECIFIC EFFECTS ON AUDITORY FAR FIELDS IN ANIMALS	5R01 HD07991-03	64,313
JEWETT, DON L.	FAR FIELD AUDITORY DEVELOPMENT IN PREMATURE INFANTS	5R01 NS12352-02	56,426
JOCSON, VICENTE L.	CONGENITAL GLAUCOMA PATHOGENESIS, DIAGNOSIS, THERAPY	5R01 EY01324-03	90,137
JOHNSON, KENNETH P.	VIRUS EFFECTS ON THE FETAL NERVOUS SYSTEM	5R01 HD09276-02	40,159
JOHNSON, KENNETH P.	BIOLOGY OF LATENT MEASLES VIRUS INFECTION IN THE CNS	5R01 NS12064-03	53,557
JORGENSEN, EUGENE C.	PEPTIDE HORMONE ANALOGS	5R01 AM08066-12	48,130
JORGENSEN, EUGENE C.	THYROID HORMONE ANALOGS	5R01 AM17576-02	53,874
KALTREIDER, H BENFER	IMMUNE FUNCTIONS OF THE LUNG	5R01 AI12296-02	52,034
KAN, YUET W.	STUDY OF ABNORMAL HEMOGLOBIN SYNTHESIS	5R01 AM16666-03	73,768
KAN, YUET W.	STUDY OF ABNORMAL HEMOGLOBIN SYNTHESIS	2R01 AM16666-04	138,834
KAPLAN, SELMA L.	IMMUNOCHEMISTRY AND PHYSIOLOGY OF GROWTH HORMONES	5R01 AM10723-10	46,358
KATZUNG, BERTRAM G.	DEPOLARIZATION INDUCED CARDIAC AUTOMATICITY	5R01 HL17452-02	36,225
KELLY, REGIS B.	BIOCHEMISTRY OF SYNAPTIC TRANSMISSION	5R01 NS09878-05	69,220
KELLY, REGIS B.	BIOCHEMISTRY OF SYNAPTIC TRANSMISSION	5R01 NS09878-06	71,962
KENYON, GEORGE L.	THE ACTIVE SITE OF CREATINE KINASE FROM MUSCLE	5R01 AM17323-04	54,052
KIM, YOUNG S.	INTESTINAL PEPTIDE HYDROLASES AND PEPTIDE TRANSPORT	5R01 AM17938-02	49,328
KIM, YOUNG S.	INTESTINAL PEPTIDE HYDROLASES AND PEPTIDE TRANSPORT	5R01 AM17938-03	52,183
KIM, YOUNG S.	REGULATION OF GLYCOPROTEIN METABOLISM IN CYSTIC FIBROSIS	5R01 AM17940-02	43,208
KIM, YOUNG S.	REGULATION OF GLYCOPROTEIN METABOLISM IN CYSTIC FIBROSIS	5R01 AM17940-03	46,214
KIM, YOUNG S.	STUDY OF GLYCONUGATES IN COLONIC NEOPLASIA	2R26 CA14905-04	145,392
KOLLMAN, PETER A.	STUDIES OF INTERMOLECULAR INTERACTIONS	5R01 GM20564-03	42,022
KORENBROT, JUAN I.	RHODOPSIN AND TRANSDUCTION IN ROD PHOTORECEPTORS	5R01 EY01586-02	55,787
KRAMER, STEVEN G.	INTRA-OCULAR USE OF 6-OH-DOPAMINE IN GLAUCOMA THERAPY	5R23 EY01353-02	4,959
KREIVANS, JULIUS R.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00083-14	588,609
KREIVANS, JULIUS R.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR00355-15	261,305
KUHN, ROBERT W.	STRUCTURE AND FUNCTION OF STEROID-BINDING PROTEINS	1R01 HD10328-01	63,835
KUN, ERNEST	TRICARBOXYLATE CARRIER OF CARDIAC MITOCHONDRIA	5R01 GM20552-02	30,204
KUNTZ, IRWIN D, JR.	HYDRATION OF MACROMOLECULES	5R01 GM19267-05	30,377
KUNTZ, IRWIN D, JR.	NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY RESOURCE	3P41 RR00892-01A1S1	8,589
LANGRIDGE, ROBERT	SPECIAL RESEARCH RESOURCE FOR BIOMOLECULAR GRAPHICS	7P41 RR01081-01	238,037
LAVAIL, JENNIFER H.	RETROGRADE AXONAL TRANSPORT IN THE VISUAL SYSTEM	7R01 NS13533-01	55,710
LAVAIL, MATTHEW M.	CELLULAR MECHANISMS OF INHERITED RETINAL DEGENERATION	7R01 EY01919-01	55,679
LAZARUS, STEPHEN C.	LOCAL AND REFLEX MECHANISMS IN ANIMAL ASTHMA	1R23 HL19604-01	23,352
LEMANSKI, LARRY F.	GENETIC CARDIOMYOPATHIES	1R01 HL18480-01	41,369



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
LEVIN, VICTOR A.	PHARMACOKINETICS OF BRAIN TUMOR CHEMOTHERAPY	3R01 CA15435-03S1	8,367
LEVY, JAY A.	C-TYPE VIRUSES IN AUTOIMMUNE DISEASE AND NEOPLASIA	5R01 CA13086-05	78,923
LI, CHOH H.	PITUITARY LACTOGENIC AND GONADOTROPIC HORMONES	5R01 AM06097-22	99,862
LI, CHOH H.	PITUITARY LACTOGENIC AND GONADOTROPIC HORMONES	5R01 AM06097-23	100,793
LI, CHOH H.	HCS(HPL): STRUCTURE-FUNCTION RELATIONSHIPS	1R01 AM18677-01	79,904
LI, CHOH H.	ACTH AND RELATED PEPTIDES	5R01 GM02907-25	78,404
LIBET, BENJAMIN	SYNAPTIC TRANSMISSION IN AUTONOMIC GANGLIA	5R01 NS00884-20	71,545
LIE-INO, LUAN E.	BLOOD GENETICS IN CALIFORNIA, MALAYSIA AND INDONESIA	5R01 HL10486-08	79,338
LIE-INO, LUAN E.	BLOOD GENETICS IN CALIFORNIA, MALAYSIA AND INDONESIA	5R01 HL10486-09	81,932
LIE, KUAN J.	BIOLOGICAL CONTROL OF SCHISTOSOMES	2R22 AI08520-09	70,189
MADDOX, DAVID A.	FACTORS REGULATING SALT EXCRETION IN THE RAT	1R01 AM19396-01	46,831
MARCUS, MARILYN M.	AGE CHANGE IN THE SSE OF AUDITORY EVOKED RESPONSES	5R01 HD09573-02	22,072
MARGULIS, ALEXANDER R.	NON-CONTRACTILE TRANSPORT OF RADIOPAQUE POWDER IN COLON	5R01 AM15937-04	55,305
MARGULIS, ALEXANDER R.	STUDY OF DIAGNOSTIC RADIOLOGY	5P01 GM21017-03	69,910
MARTON, LAURENCE J.	POLYAMINES AND BRAIN TUMOR CHEMOTHERAPY	5R01 CA15515-02	47,970
MAYERI, EARL	A CELLULAR ANALYSIS OF CARDIO-REGULATION	5R01 NS10246-02	55,758
MC CARTHY, BRIAN J.	TRANSCRIPTION OF HISTONE GENES FROM CHROMATIN	5R01 GM20287-04	59,868
MC DONAGH, ANTONY F.	MECHANISMS OF HEME AND BILIRUBIN DEGRADATION	5R01 AM18220-02	61,873
MC KEAN, CHARLES M.	FAR-FIELD POTENTIALS IN BRAINSTEM MALDEVELOPMENT	5R01 NS12424-02	53,294
MC NUTT, NEIL S.	CANCER CELL PERIPHERY: ULTRASTRUCTURE AND FUNCTION	5R01 CA16482-02	35,807
MELMON, KENNETH L.	CLINICAL PHARMACOLOGY - PHARMACOKINETICS	5P01 GM16496-08	474,629
MERZENICH, MICHAEL M.	FUNCTIONAL ORGANIZATION OF THE AUDITORY SYSTEM	5R01 NS10414-05	56,185
MERZENICH, MICHAEL M.	DEVELOPMENT OF AN ACOUSTIC PROSTHESIS	5R01 NS11804-03	42,007
MICHAELI, DOV	THE MOLECULAR BASIS OF COLLAGEN-PLATELET INTERACTION	5R01 HL17525-02	94,230
MILLER, ARTHUR J.	ASPECTS OF RESPIRATORY CONTROL	5R01 HD09841-02	19,451
MILLER, MALCOLM R.	STUDIES ON THE PAPILLA BASILARIS	5R01 NS11838-02	56,454
MINES, ALLAN H.	RESPIRATION DURING ALTITUDE ACCLIMATIZATION	3R01 HL13841-14S1	17,522
MINES, ALLAN H.	RESPIRATION DURING ALTITUDE ACCLIMATIZATION	2R01 HL13841-15	55,591
MOORE, WESLEY S.	INFECTION IN PERIPHERAL VASCULAR PROSTHETIC GRAFTS	5R01 HL16682-03	33,406
MORALES, MANUEL F.	FUNCTION AND GROWTH OF CARDIAC AND SKELETAL MUSCLE	5P01 HL16683-02	143,060
MORRIS, R CURTIS, JR.	DISORDERS OF RENAL ACIDIFICATION	5P01 AM16764-04	153,587
NADEL, JAY A.	PULMONARY SCOR: CHRONIC DISEASES OF AIRWAYS	1P50 HL19156-01	335,225
NICHOLS, BARBARA A.	ROLES OF MONONUCLEAR PHAGOCYTES IN PATHOLOGIC STATES	5R01 AI11639-03	37,742
O'CONNOR, G RICHARD	STUDY OF OCULAR TOXOPLASMOSIS	5R01 EY01204-03	70,026
O'CONNOR, G RICHARD	INFLAMMATORY DISEASES OF THE EYE: CORE SUPPORT	5P30 EY01597-02	93,788
O'DONNELL, JAMES J.	RETINITIS PIGMENTOSA—INBORN ERROR OF RPE PHAGOCYTOSIS	1R01 EY01786-01	80,135
OCKNER, ROBERT K.	LIPID METABOLISM IN INTESTINE AND LIVER	5R01 AM13328-06	85,220
OCKNER, ROBERT K.	LIPID METABOLISM IN INTESTINE AND LIVER	5R01 AM13328-07	87,908
OH, JANG O.	RECURRENT HERPES SIMPLEX UVEITIS	5R01 EY00964-02	83,836
OH, JANG O.	EYE INFECTIONS BY TYPE 2 HERPES SIMPLEX VIRUS	1R01 EY01578-01	31,393
OKERLUND, MICHAEL D.	HUMAN THYROID CARCINOGENESIS	5R01 CA15623-02	31,066
OPPENHEIMER, NORMAN J.	STRUCTURE/FUNCTION RELATIONS IN PYRIDINE COENZYMES	1R01 GM22982-01	45,810
ORTIZ DE MONTELLANO, PAUL	MECHANISM AND CONTROL OF STEROL BIOSYNTHESIS	3R01 HL15476-03S1	2,582
OSTLER, HOWARD B.	OCULAR ZOONOSIS: THE CHLAMYDIAL INFECTIONS	5R01 EY01205-02	53,420
OWENS, ELMER	HEARING AIDS AND REHABILITATION FOR HEARING LOSS	1R01 NS12998-01	90,295
PAPKOFF, HAROLD	STUDIES ON PREGNANT MARE SERUM GONADOTROPIN	2R01 HD05722-04A1	61,464
PARER, JULIAN T.	FETAL HEART RATE PATTERNS AND FETAL OXYGENATION	1R01 HD09980-01	68,096
PAYONE, BEN W.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 R05305-15	56,700
PETRAKIS, NICHOLAS L.	GENETIC EPIDEMIOLOGY AND NATURAL HISTORY OF CANCER	5P01 CA13556-05	525,202
PHILLIPS, THEODORE L.	THE THERAPEUTIC RATIO AND EXPERIMENTAL RADIOOTHERAPY	5R01 CA17227-02	139,325
PHILLIPS, THEODORE L.	EXPERIMENTAL COMBINED RADIOOTHERAPY-CHEMOTHERAPY	1R01 CA20529-01	192,185
PIPER, WALTER N.	LEAD TOXICITY RELATED TO HEME BIOSYNTHESIS	5R01 ES01343-02	30,410
PRUSINER, STANLEY B.	SLOW BRAIN DISEASE: ASSAY AND PURIFICATION OF SCRAPIE	5R01 NS11917-02	66,719
PRUSINER, STANLEY B.	REGULATION/FUNCTION—BRAIN GAMMA-GLUTAMYL TRANSEPTIDASE	5R01 NS12100-02	40,677
RALSTON, HENRY J. III.	SYNAPTIC ORGANIZATION IN SPINAL CORD AND THALAMUS	2R01 NS11614-03	62,758
RAMACHANDRAN, JANAKIRAMAN	PITUITARY HORMONES IN NORMAL AND NEOPLASTIC GROWTH	5R01 CA16417-02	76,887
RAPOPORT, BASIL	THYROID STIMULATORS IN HEALTH AND DISEASE	1R01 AM19289-01	66,101
REBER, HOWARD A.	PANCREATIC SECRETION IN PANCREATIC CANCER	1R26 CA20121-01	45,258
ROBINSON, JOHN S.	HEMISPHERE INTEGRATION AND SPECIALIZATION	5R01 NS11779-03	26,788
ROSENAU, WERNER	LYMPHOTOXIN IN CELL-MEDIATED TUMOR IMMUNITY	5R01 CA07191-13	95,784



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
ROTHMAN, STEPHEN S.....	SECRETION OF PROTEINS AND IONS BY THE PANCREAS.....	5R01 AM16990-03	95,974
RUDNICK, ALBERT.....	SUPPORT FOR INTERNATIONAL CENTER FOR MEDICAL RESEARCH.....	5R07 AI10051-16	757,036
RUDNICK, ALBERT.....	STUDY OF ECOLOGY OF DENGUE VIRUSES IN MALAYSIA.....	2R22 AI1540-04	83,188
RUTTER, WILLIAM J.....	CONTROL OF GENE EXPRESSION IN MAMMALIAN CELLS.....	5P01 GM17239-07	287,522
RUTTER, WILLIAM J.....	GENE EXPRESSION AND REPLICATION IN EUKARYOTIC ORGANISMS.....	5R01 GM21830-02	148,264
SALVATIERRA, OSCAR.....	PATHOPHYSIOLOGY OF CLINICAL ORGAN TRANSPLANTATION.....	3P01 AM11290-09S1	27,063
SANTI, DANIEL V.....	CHEMOTHERAPY WITH INHIBITORS OF PROTEIN SYNTHESIS.....	5R01 CA14266-04	66,430
SANTI, DANIEL V.....	MECHANISM OF THYMIDYLATE SYNTHETASE.....	5R01 CA14394-04	52,020
SANTI, DANIEL V.....	MECHANISM OF THYMIDYLATE SYNTHETASE.....	5R01 CA14394-05	51,782
SCHACHTER, JULIUS.....	EYE DISEASE AND VENEREALLY TRANSMITTED CHLAMYDIAE.....	5R01 AI10193-05	38,703
SCHACHTER, JULIUS.....	SEROTYPING OF CHLAMYDIAE (BEDSONIA) ISOLATES.....	5R01 AI11881-03	39,565
SCHACHTER, JULIUS.....	EPIDEMIOLOGY OF CERVICAL CANCER—CHLAMYDIAE AND HERPES.....	2R01 CA14427-04	144,078
SCHMID, RUDI.....	STUDIES OF BILE PIGMENT METABOLISM.....	5R01 AM11275-10	198,185
SCHMID, RUDI.....	STUDIES OF BILE PIGMENT METABOLISM.....	5R01 AM11275-11	198,079
SCHMID, RUDI.....	INTESTINAL ABSORPTION OF HEMOGLOBIN IRON.....	5R01 AM17365-03	54,832
SCHMID, RUDI.....	INTERDISCIPLINARY LIVER RESEARCH PROGRAM.....	5P50 AM18520-02	654,365
SCHROCK, THEODORE R.....	STUDIES OF HEPATIC REGENERATION.....	5R01 AM16979-03	41,244
SHAH, SHANTILAL N.....	DEVELOPMENTAL REGULATION OF BRAIN STEROL SYNTHESIS.....	5R01 NS11670-03	38,735
SHAMES, DAVID M.....	RENAL HYPERTENSION DETECTION USING THE GAMMA VARIATE.....	5R01 HL18367-02	36,301
SHOHET, STEPHEN B.....	MEMBRANE LIPID METABOLISM IN BLOOD CELLS.....	5R01 AM16095-05	83,129
SHOHET, STEPHEN B.....	IN VITRO CHARACTERIZATION OF CELLS IN HODGKIN'S DISEASE.....	5R01 CA15182-03	78,175
SHOHET, STEPHEN B.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17995-02	100,342
SIEGEL, ROBERT C.....	LYSYL OXIDASE MEDIATED COLLAGEN CROSS-LINKING.....	5R01 AM16424-03	29,249
SIEGEL, ROBERT C.....	LYSYL OXIDASE MEDIATED COLLAGEN CROSS-LINKING.....	2R01 AM16424-04	43,046
SIEGEL, ROBERT C.....	PATHOGENESIS OF GENETIC COLLAGEN DISEASES.....	5R01 AM18237-02	48,319
SITIERI, PENTTI K.....	DYNAMICS OF ESTROGEN BIOSYNTHESIS.....	5R01 HD08692-03	121,424
SILVERMAN, SOL, JR.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17914-02	51,484
SINGER, THOMAS P.....	MEMBRANE-BOUND ENZYMES IN HEART AND OTHER TISSUES.....	5P01 HL16251-03	248,017
SINGER, THOMAS P.....	MEMBRANE-BOUND ENZYMES IN HEART AND OTHER TISSUES.....	5P01 HL16251-04	267,714
SIPERSTEIN, MARVIN D.....	CHOLESTEROL METABOLISM IN NORMAL AND MALIGNANT LIVER.....	5R01 CA15979-03	182,968
SMOLIN, GILBERT.....	THE AFFERENT ARC OF CORNEAL IMMUNOLOGIC REACTIONS.....	5R01 EY01121-03	58,984
SMOLIN, GILBERT.....	THE AFFERENT ARC OF CORNEAL IMMUNOLOGIC REACTIONS.....	5R01 EY01121-04	61,055
SMUCKLER, EDWARD A.....	CYTOCHEMICAL STUDIES IN LIVER INJURY.....	7R01 AM19843-01	66,717
SMUCKLER, EDWARD A.....	PATHOLOGY OF CHEMICAL CARCINOGENESIS.....	7R01 CA21141-01	119,985
SOKOLOV, MAURICE.....	CLINICAL APPLICATION OF AMBULATORY BLOOD PRESSURES.....	1R01 HL18076-01	79,373
STAUB, NORMAN C.....	PATHOPHYSIOLOGY OF PULMONARY EDEMA.....	1P50 HL19155-01	506,114
STEINBERG, ROY H.....	PIGMENT EPITHELIAL ION TRANSPORT AND RETINAL FUNCTION.....	5R01 EY01429-02	78,863
STEINBERG, ROY H.....	PIGMENT EPITHELIAL ION TRANSPORT AND RETINAL FUNCTION.....	5R01 EY01429-03	106,951
STITES, DANIEL P.....	STUDY OF HUMAN FETO-PLACENTAL-MATERNAL INTERACTION.....	5R01 HD03939-08	57,522
STITES, DANIEL P.....	CELLULAR AND HUMORAL IMMUNITY WITH MURINE SPERMATOZOA.....	5R01 HD08257-02	42,673
TALAL, NORMAN.....	SIGNIFICANCE OF ANTINUCLEIC ACID ANTIBODIES IN LUPUS.....	5R01 AM16140-05	70,907
TALAL, NORMAN.....	CANCER AND MACROGLOBULINEMIA.....	5R01 CA15486-03	51,072
THALER, M MICHAEL.....	DEVELOPMENTAL ASPECTS OF HEPATOBIILIARY METABOLISM.....	5R01 HD03148-09	104,932
TRUNKLEY, DONALD D.....	MEASUREMENT OF CELL MEMBRANE TRANSPORT DURING SHOCK.....	3R01 GM20633-03S1	11,908
VARMIUS, HAROLD E.....	MOLECULAR BIOLOGY OF MOUSE MAMMARY TUMOR VIRUS.....	1R01 CA19287-01	61,362
VESSEY, DONALD A.....	CHARACTERIZATION OF MICROSOMAL BILE ACID CONJUGATION.....	1R01 AM19212-01	33,377
VORE, MARY E.....	METABOLIC ACTIVATION OF CARCINOGENIC NITRO COMPOUNDS.....	1R01 CA18435-01	22,782
VORE, MARY E.....	LIPID REQUIREMENT OF THE LUNG MONO-OXYGENASE SYSTEM.....	1R23 HL19605-01	39,824
WALLERSTEIN, ROBERT S.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05755-03	97,148
WARNOCK, DAVID G.....	URINARY ACIDIFICATION BY ISOLATED RENAL TUBULES.....	1R01 AM19407-01	61,752
WATSON, JOHN A.....	EFFECTORS OF CHOLESTEROL SYNTHESIS.....	5R01 HL16294-03	58,161
WEINER, RICHARD I.....	ROLE OF BRAIN MONOAMINES IN GONADOTROPIN RELEASE.....	5R01 HD08924-03	37,811
WHEELER, KENNETH T, JR.....	BRAIN TUMOR THERAPY: RADIATION, DNA DAMAGE & REPAIR.....	5R01 CA15203-03	23,800
WHEELER, KENNETH T, JR.....	VISCOELASTIC ANALYSIS OF BRAIN AND TUMOR DNA.....	1R01 CA19658-01	10,670
WILLIAMS, JOHN A.....	ROLE OF CELL MEMBRANE IN HORMONE SECRETION AND ACTION.....	5R01 GM19998-04	44,114
WILSON, CHARLES B.....	PROGRAM FOR TREATMENT OF MALIGNANT BRAIN TUMORS.....	5P01 CA13525-05	546,962
WILSON, CHRISTINE S.....	ANALYSIS OF NUTRITION AND HEALTH DATA FROM MALAYSIA.....	1R01 AM19152-01	6,710
WISSIG, STEVEN L.....	ULTRASTRUCTURAL STUDIES OF CAPILLARY PERMEABILITY.....	2R01 HL04512-17	63,921
WOLFF, MANFRED E.....	STUDIES ON RECEPTORS WITH SITE SPECIFIC STEROIDS.....	5R01 AM14824-05	49,575
WONG-RILEY, MARGARET T.....	ORGANIZATION AND CONNECTIONS OF VISUAL CORTEX.....	1R01 NS12995-01	57,957

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
YANG, JEN T.....	OPTICAL ROTATORY POWER OF BIOPOLYMERS.....	5R01 GM10880-17	54,073
YANG, JEN T.....	STEREOCHEMICAL MECHANISM OF SICKLING OF HEMOGLOBIN S.....	5R01 HL18818-02	48,457
YEAGER, CHARLES L.....	SUPPORT FOR SMALL COMPUTER FACILITY.....	5R01 NS10471-04	81,760
YEAGER, CHARLES L.....	SMALL COMPUTER FACILITY FOR AUTOMATED EEG ANALYSIS.....	2R01 NS10471-05	80,937
ZAKIM, DAVID.....	REGULATION OF MICROSOMAL ENZYMES BY PHOSPHOLIPIDS.....	5R01 GM20316-03	25,691
ORGANIZATION TOTAL	292 32,081,565		
<b>UNIVERSITY OF THE PACIFIC ZIP CODE 94115</b>			
EVERSOLE, LEWIS R.....	CLINICAL CANCER EDUCATION (DENTAL).....	5R25 CA17956-02	17,346
INESI, GIUSEPPE.....	CALCIUM ION AND CONTROL OF CARDIOVASCULAR FUNCTION.....	5P01 HL16607-03	139,383
MURPHY, ALEXANDER J.....	STUDIES ON THE ACTIVE SITES OF CONTRACTILE PROTEINS.....	5R01 AM16445-03	30,573
NEWMAN, NANCY M.....	EVALUATION OF THE RETINAL NERVE FIBER LAYER.....	5R01 EY01249-03	63,148
ROBERTS, W EUGENE.....	CELL KINETICS OF ORTHODONTICALLY INDUCED OSTEOGENESIS.....	5R23 DE04241-02	13,150
ORGANIZATION TOTAL	5 263,600		
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 94121</b>			
JONES, ALBERT L.....	HYPOLIPIDEMIC DRUG STUDY: ULTRASTRUCTURE AND CHEMISTRY.....	5R01 HL16363-02	36,513
ORGANIZATION TOTAL	1 36,513		
<b>WEST COAST CANCER FOUNDATION ZIP CODE 94115</b>			
CANTRIL, SIMEON T.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	5P20 CA17063-02	169,042
ENELOW, ALLEN J.....	RESEARCH INTO THE PSYCHOSOCIAL ASPECTS OF CANCER CARE.....	5R18 CA17903-02	212,906
ORGANIZATION TOTAL	2 381,948		
<b>SAN JOSE</b>			
<b>SANTA CLARA VALLEY MEDICAL CENTER ZIP CODE 95128</b>			
O'REILLY, ROBERT A.....	ANALYTIC DEVELOPMENT OF PHARMACOKINETIC TOOLS.....	1R01 GM22860-01	70,186
O'REILLY, ROBERT A.....	METABOLISM OF COUMARIN ANTICOAGULANT DRUGS IN MAN.....	5R01 HL08058-13	56,751
ORGANIZATION TOTAL	2 126,937		
<b>SANTA BARBARA</b>			
<b>SANTA BARBARA BOTANIC GARDEN ZIP CODE 93105</b>			
WALTERS, MARTA S.....	MEIOSIS: A REVISED SEQUENCE OF EVENTS IN PROPHASE.....	2R01 GM19272-03	32,373
ORGANIZATION TOTAL	1 32,373		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA BARBARA ZIP CODE 93106</b>			
BRUCE, THOMAS C.....	BIOCHEMICAL MECHANISMS - ENZYMES, CANCER AND MODELS.....	5R01 AM09171-12	130,913
BRUCE, THOMAS C.....	BIOCHEMICAL MECHANISMS - ENZYMES, CANCER AND MODELS.....	5R01 AM09171-13	130,429
BUNTON, CLIFFORD A.....	MODELS FOR ENZYMIC PHOSPHORYLATION AND HYDROLYSIS.....	5R01 AM10742-10	46,450
CARBON, JOHN A.....	RELATION OF TRANSFER RNA STRUCTURE AND FUNCTION.....	5R01 CA11034-08	114,518
CHAFFEE, ROWAND R.....	HEAT ACCLIMATION: A MODEL FOR O <sub>2</sub> SPARING THERAPY.....	5R01 AM18895-02	34,556
DRINKWATER, BARBARA L.....	PHYSIOLOGICAL ADAPTATION OF WOMEN TO HEAT STRESS.....	5R01 ES00849-04	101,346
DRINKWATER, BARBARA L.....	PHYSIOLOGICAL ADAPTATION OF WOMEN TO HEAT STRESS.....	5R01 ES00849-05	94,395
FISHER, STEVEN K.....	STUDIES ON THE DEVELOPING AND ADULT VISUAL SYSTEM.....	3R01 EY00888-04S1	3,044
FISHER, STEVEN K.....	STUDIES ON THE DEVELOPING AND ADULT VISUAL SYSTEM.....	2R01 EY00888-05	58,509
GERIG, JOHN T.....	MAPPING OF ACTIVE SITES AND EFFECTIVE CHEMOTHERAPY.....	5R01 CA11220-08	50,212
HOOVER, THOMAS M, JR.....	CONFORMATIONS OF BIOLOGICALLY IMPORTANT MOLECULES.....	2R01 GM18092-04	37,391
HORVATH, STEVEN M.....	OZONE: PHYSIOLOGICAL AND PSYCHOPHYSIOLOGICAL EFFECTS.....	5R01 ES01143-02	121,451
HUBBARD, ARTHUR T.....	ELECTROANALYSIS OF CENTRAL CATECHOLAMINE NEURONS.....	1R01 NS13556-01	35,652
JACOBS, GERALD H.....	STUDIES OF ALL-CONE VISUAL SYSTEMS.....	5R01 EY00105-07	30,495
JOHNSON, M BRUCE.....	DIVORCE: AN ECONOMIC APPROACH.....	5R01 HD09076-02	19,843
KING, JACK L.....	SIMULATION AND ANALYSIS OF PROTEIN EVOLUTION.....	5R01 GM21283-02	20,937
LARIS, PHILIP C.....	EXTRINSIC FLUORESCENCE AND MEMBRANE POTENTIALS.....	9R01 CA19234-03	46,949
LEE, NANCY L.....	GENETIC CONTROL OF PROTEIN SYNTHESIS IN E. COLI.....	5R01 GM14652-10	50,911
ORIAS, EDUARDO.....	CONDITIONAL LETHAL MUTANTS OF TETRAHYMENA.....	5R01 GM19290-05	68,063
ORIAS, EDUARDO.....	GENETIC DISSECTION OF PHAGOCYTOSIS IN TETRAHYMENA.....	5R01 GM21067-02	39,119
PARSONS, STANLEY M.....	FEEDBACK INHIBITION OF PRAP <sup>1</sup> SYNTHETASE.....	5R01 GM20835-03	28,578

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
PARSONS, STANLEY M.....	BIOCHEMISTRY OF HISTIDINE REPRESSION.....	1R01 GM23031-01	96,523
PURICH, DANIEL L.....	CAMP-STIMULATED PROTEIN KINASE: MECHANISM AND CONTROL.....	5R01 GM21091-03	30,987
SAMUEL, CHARLES E.....	MECHANISM OF INTERFERON ACTION.....	5R01 AI12520-02	46,241
TABORSKY, GEORGE.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07099-10	73,614
TRENCH, ROBERT K.....	CONTROL OF MACROMOLECULAR BIOSYNTHESIS IN C. PARADOXA.....	7R01 GM24014-01	13,416
WILSON, LESLIE.....	DRUG INTERACTIONS WITH BRAIN MICROTUBULE PROTEINS.....	7R01 NS13560-01	33,151
ORGANIZATION TOTAL	27	1,557,693	

## SANTA CRUZ

<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA CRUZ      ZIP CODE 95060</b>			
BERGER, RALPH J.....	THERMOREGULATION DURING SLEEP AND TORPOR IN MAMMALS.....	1R01 GM23694-01	40,745
BRIDGEMAN, BRUCE.....	TEMPORAL CODING AND PROCESSING IN MONKEY VISUAL CORTEX.....	5R01 EY01482-02	29,310
DANIEL, CHARLES W.....	STUDIES ON HORMONE-DEPENDENT MOUSE MAMMARY TUMORS.....	1R01 CA18464-01	49,116
DANIEL, CHARLES W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07135-06	52,453
DAVIS, WILLIAM J.....	NEURONAL CONTROL OF LOCOMOTION AND NEURONAL ONTOGENY.....	5R01 NS09050-06	81,461
DAVIS, WILLIAM J.....	NEURAL BASIS OF BEHAVIORAL HIERARCHIES AND PLASTICITY.....	2R01 NS09050-07	82,827
DORFMAN, DAVID.....	ANIMAL RESOURCE IMPROVEMENT.....	1P40 RR01027-01	68,511
DRATZ, EDWARD A.....	STRUCTURE AND FUNCTION OF VISUAL PHOTORECEPTORS.....	2R01 EY00175-07	62,565
DRATZ, EDWARD A.....	STUDIES OF THE PREVENTION OF RETINAL ROD DEGENERATION.....	5R01 EY01521-02	84,390
FELDMAN, JERRY F.....	GENETIC ANALYSIS OF BIOLOGICAL CLOCK MECHANISMS.....	2R01 GM22144-02	68,447
FINK, ANTHONY L.....	ENZYME-CATALYZED REACTIONS AT SUB-ZERO TEMPERATURES.....	5R01 GM20555-02	31,176
KLIGER, DAVID S.....	INVESTIGATION OF THE BLEACHING STAGES OF RHODOPSIN.....	5R01 EY00983-04	26,764
MC MURRY, JOHN E.....	A NEW SYNTHESIS OF UNSATURATED CARBONYL COMPOUNDS.....	5R01 GM19959-03	31,731
MC MURRY, JOHN E.....	TOTAL SYNTHESIS OF CARDIAC AGLYCONES.....	5R01 HL18118-02	64,534
NOLLER, HARRY F, JR.....	RIBOSOME STRUCTURE AND FUNCTION.....	5R01 GM17129-06	35,604
POODRY, CLIFTON A.....	GENETIC CONTROL OF DEVELOPMENT USING DROSOPHILA.....	2R01 GM20401-04	45,583
ROCHA, VICTOR.....	BASIC RESEARCH PROGRAM.....	3S06 RR08132-01S1	427
ROCHA, VICTOR.....	BASIC RESEARCH PROGRAM.....	5S06 RR08132-02	186,949
WANG, HOWARD H.....	ROLE OF MEMBRANE PROTEINS IN LOCAL ANESTHETIC ACTION.....	5R01 GM22242-02	40,217
WIPKE, W TODD.....	BIOGENETIC-LIKE CYCLIZATIONS OF MACROCYCLIC POLYENES.....	7R01 GM22990-01	28,195
ORGANIZATION TOTAL	20	1,111,005	

## SANTA MONICA

<b>RAND CORPORATION      ZIP CODE 90406</b>			
BUTZ, WILLIAM P.....	ECONOMIC-DEMOGRAPHIC FACTORS IN U.S. FERTILITY TRENDS.....	5R01 HD09093-02	119,337
KING, WILLIAM S.....	MATHEMATICAL MODELS FOR STUDYING SICKLE CELL DISEASE.....	5R01 HL16580-02	114,594
LINCOLN, THOMAS L.....	CELL KINETICS COMPUTER MODEL FOR LEUKEMIA THERAPY.....	2R01 CA12369-04	126,490
MORRISON, PAUL F.....	PREDICTIVE PHARMACOKINETIC MODEL OF ANTIFOLATE RESCUE.....	1R01 CA19663-01	81,978
MORRISON, PETER A.....	DETERMINANTS AND IMPLICATIONS OF RETURN MIGRATION.....	5R01 HD09142-02	54,375
MORRISON, PETER A.....	DETERMINANTS OF ECONOMIC SUCCESS AMONG MIGRANTS.....	1R01 HD09893-01	69,254
NEWHOUSE, JOSEPH P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05710-06	37,257
ORGANIZATION TOTAL	7	603,285	
<b>ST. JOHN'S HOSPITAL AND HEALTH CENTER      ZIP CODE 90404</b>			
WILSON, WILLIAM L.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA12295-05S1	22,795
ORGANIZATION TOTAL	1	22,795	

## SEPULVEDA

<b>VETERANS ADMINISTRATION HOSPITAL      ZIP CODE 91343</b>			
PIKO, LAJOS.....	INTERACTIONS OF ONCOGENIC VIRUSES WITH MOUSE EMBRYOS.....	5R01 CA16155-03	42,287
ORGANIZATION TOTAL	1	42,287	

## STANFORD

<b>STANFORD UNIVERSITY      ZIP CODE 94305</b>			
ANDERSEN, HANS C.....	STATISTICAL MECHANICS OF LIPID BILAYER MEMBRANES.....	1R01 GM23085-01	26,729



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
ARONOW, LEWIS.....	DRUG RESISTANCE IN MOUSE CELLS CULTURED IN VITRO.....	5R01 CA05672-15	77,012
BAGSHAW, MALCOLM A.....	STUDY OF EXTENDED RADIOTHERAPY FOR PROSTATIC NEOPLASMS.....	5R26 CA15455-03	117,059
BAGSHAW, MALCOLM A.....	PION RADIOTHERAPY: PRECLINICAL PHYSICS & RADIOBIOLOGY.....	5R01 CA16313-02	270,587
BAGSHAW, MALCOLM A.....	HOSPITAL-BASED MULTIPORT PION RADIOTHERAPY OF CANCER.....	1P01 CA19653-01	432,306
BALDWIN, ROBERT L.....	PHYSICAL STUDIES OF NUCLEIC ACIDS AND PROTEINS.....	5R01 GM19988-16	91,217
BASCH, PAUL F.....	IN VITRO ANALYSIS OF VECTOR-PARASITE INTERACTIONS.....	5R22 AI10271-06	73,871
BAUM, DAVID.....	HYPOXIA, METABOLISM AND NEONATAL THERMOREGULATION.....	2R01 HD06775-04	89,322
BAUM, DAVID.....	CONGENITAL HEART DISEASE AND ORGAN DEVELOPMENT.....	5R01 HD08814-02	70,253
BAUR, SONIA.....	GASTROINTESTINAL HORMONE-RECEPTOR INTERACTIONS.....	1R01 AM18497-01A1	66,058
BAYLOR, DENIS A.....	NEURAL SIGNALLING IN THE RETINA.....	5R01 EY01543-02	27,738
BAYLOR, DENIS A.....	NEURAL SIGNALLING IN THE RETINA.....	5R01 EY01543-03	29,213
BERG, PAUL.....	BASIC MECHANISMS IN VIRAL CARCINOGENESIS.....	5R01 CA15513-03	86,116
BERG, PAUL.....	MECHANISMS AND REGULATION OF GENE EXPRESSION.....	2R01 GM13235-11	219,166
BERG, PAUL.....	MECHANISMS AND REGULATION OF GENE EXPRESSION.....	5R01 GM13235-12	235,580
BERNFELD, MERTON R.....	EXTRACELLULAR MATERIALS AND EMBRYONIC ORGAN FORMATION.....	2R01 HD06763-05	129,187
BLASCHKE, TERRENCE F.....	KINETICS OF DRUG-DRUG AND DRUG-DISEASE INTERACTIONS.....	3R01 GM22209-01S1	1,560
BLASCHKE, TERRENCE F.....	KINETICS OF DRUG-DRUG AND DRUG-DISEASE INTERACTIONS.....	5R01 GM22209-02	61,279
BROWN, J MARTIN.....	EXPERIMENTAL RADIOTHERAPY: BASIS AND MODIFICATION.....	5R01 CA15201-03	85,348
BRUTLAG, DOUGLAS L.....	ORGANIZATION OF HETEROCHROMATIC DNA SEQUENCES.....	5R01 GM21498-02	66,539
CAMPBELL, ALLAN M.....	GENETICS OF LAMBDA PROPHAGE.....	5R01 AI08573-09	98,840
CAVALLI-SFORZA, LUIGI L.....	HUMAN POPULATION GENETICS.....	2R01 GM20467-04	186,188
CAVALLI-SFORZA, LUIGI L.....	GENETIC STUDY OF METABOLISM OF NEURAL TRANSMITTERS.....	3R01 NS10711-03S1	34,961
CHOW, KAO L.....	NEUROLOGY OF VISION AND LEARNING.....	2R01 EY00691-16	66,145
CLAYTON, DAVID A.....	MITOCHONDRIAL DNA IN MALIGNANT CELLS.....	5R01 CA12312-06	61,064
CLAYTON, RAYMOND B.....	ERYTHROCYTE DEVELOPMENT AND SPHINGOLIPIDS.....	1R01 AM18648-01	61,320
COHEN, ELLIS N.....	MECHANISM OF LOCAL ANESTHETIC CONDUCTION BLOCK.....	1R01 GM22113-01A1	65,996
COHEN, STANLEY N.....	GENETIC CONTROL OF NONCHROMOSOMAL DRUG RESISTANCE.....	2R01 AI08619-09	180,765
COLLMAN, JAMES P.....	MIXED-FUNCTION OXYGENASE MODELS.....	5R01 GM17880-06	65,627
COOPER, ALLEN D.....	REGULATION OF HEPATIC CHOLESTEROL SYNTHESIS.....	5R01 AM18774-02	38,232
CUTLER, ROBERT W.....	MECHANISMS OF NEUROTRANSMITTER RELEASE.....	5R01 NS12079-02	92,244
CUTLER, ROBERT W.....	MECHANISMS OF NEUROTRANSMITTER RELEASE.....	5R01 NS12079-03	94,855
DAVIDSON, JULIAN M.....	ROLE OF THE BRAIN IN MALE AND FEMALE REPRODUCTION.....	5R01 HD00778-12	95,031
DAVIS, RONALD W.....	HIGHER CELL REGULATION: ISOLATED DNA SEGMENTS.....	5R01 GM21891-02	100,673
DE BUSK, ROBERT F.....	OBJECTIVE EVALUATION EARLY AFTER MI AND HEART SURGERY.....	1R01 HL18907-01	190,988
DEMENT, WILLIAM C.....	SUDDEN INFANT DEATH SYNDROME AND SLEEP APNEA.....	3R01 HD08339-02S1	18,653
DEMENT, WILLIAM C.....	SUDDEN INFANT DEATH SYNDROME AND SLEEP APNEA.....	5R01 HD08339-03	133,087
DEMENT, WILLIAM C.....	SLEEP APNEA CLINICAL RESEARCH CENTER.....	2P50 NS10727-04A1	235,979
DEMENT, WILLIAM C.....	STUDIES OF MARCOLEPSY.....	1R01 NS13211-01	93,539
DEWSON, JAMES H, III.....	AUDITORY NEUROPSYCHOLOGY AND PRECURSORS OF LANGUAGE.....	1R01 NS12315-01A1	144,266
DIERASSI, CARL.....	MASS SPECTROMETRY IN ORGANIC AND BIOCHEMISTRY.....	2R01 AM04257-16	115,503
DIERASSI, CARL.....	USE OF CMR SPECTRA IN IDENTIFYING STEROID STRUCTURES.....	5R01 AM17896-02	36,225
DIERASSI, CARL.....	MARINE CHEMISTRY WITH SPECIAL EMPHASIS ON STEROIDS.....	5R01 GM06840-18	153,136
DIERASSI, CARL.....	MAGNETIC CIRCULAR DICHROISM OF CYTOCHROMES P-450.....	2R01 GM20276-03	63,701
DIERASSI, CARL.....	RESOURCE RELATED RESEARCH - COMPUTERS AND CHEMISTRY.....	5R24 RR00612-06	363,146
DIERASSI, CARL.....	RESOURCE RELATED RESEARCH - COMPUTERS AND CHEMISTRY.....	5R24 RR00612-07	321,534
EARLE, JOHN D.....	TOTAL BODY IRRADIATION IN ADVANCED MOUSE LYMPHOMA.....	2R01 CA13299-04A1	3,855
ENG, LAWRENCE F.....	CENTRAL NERVOUS SYSTEM MEMBRANES AND ACIDIC PROTEINS.....	5R01 NS11632-03	74,729
EPSTEIN, HENRY F.....	THE MOLECULAR BASIS OF NEUROMUSCULAR DEVELOPMENT.....	3R01 AG00448-03S1	7,347
EPSTEIN, HENRY F.....	THE MOLECULAR BASIS OF NEUROMUSCULAR DEVELOPMENT.....	2R01 AG00448-04	106,654
FARQUHAR, JOHN W.....	BEHAVIORAL & EPIDEMIOLOGICAL STUDIES OF ATHEROSCLEROSIS.....	3P50 HL14174-05S1	183,478
FELDMAN, DAVID.....	THE ROLE OF RECEPTORS IN GLUCOCORTICOID ACTION.....	5R01 AM18156-02	46,380
FELDMAN, DAVID.....	THE ROLE OF RECEPTORS IN GLUCOCORTICOID ACTION.....	5R01 AM18156-03	48,794
FRIEDBERG, ERROL C.....	DNA REPAIR AND ITS RELATIONSHIP TO CARCINOGENESIS.....	5R01 CA12428-06	41,718
GANESAN, ADAYAPALAM T.....	DNA SYNTHESIS AND GENETIC RECOMBINATION IN B. SUBTILIS.....	5R01 GM14108-11	84,230
GANZ, LEO.....	NEUROPSYCHOLOGY.....	5R01 EY01241-03	32,450
GETTING, PETER A.....	COORDINATION OF REFLEX AND COMMAND BEHAVIORS.....	5R01 NS12529-02	32,531
GOULD, R GORDON.....	CHOLESTEROL METABOLISM AND HYPOCHOLESTEROLEMIC DRUGS.....	5R01 HL05360-17	110,744
GOULD, R GORDON.....	BINDING OF PROTEINS TO LIPIDS AND LIPOID HORMONES.....	5R01 HL08476-13	77,444
GRAY, GARY M.....	CARBOHYDRATE DIGESTION BY THE INTESTINE.....	5R01 AM11270-10	62,429
GRAY, GARY M.....	ROLE IN DIGESTION OF SMALL INTESTINAL OLIGOPOLYMERASES.....	5R01 AM15802-04	114,594



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
GREENBERG, PETER L.	GRANULOPOIESIS IN MALIGNANT AND BENIGN HUMAN DISEASES	5R01 CA13141-05	94,762
HAHN, GEORGE M.	MODIFICATION OF RADIATION RESPONSE IN VITRO	5R01 CA04542-18	72,980
HAHN, GEORGE M.	CHEMOTHERAPY: CYTOTOXICITY, REPAIR AND ITS INHIBITION	5R01 CA15769-03	57,080
HANAWALT, PHILIP C.	REPLICATION AND TRANSCRIPTION OF GENETIC MATERIAL	5R01 GM09901-15	113,769
HANAWALT, PHILIP C.	DNA REPAIR IN ESCHERICHIA COLI AND BACILLUS SUBTILIS	5R01 GM19010-05	65,665
HARBURY, CHRISTINA B.	THE INHIBITOR ANTIBODY IN HEMOPHILIA	3R01 HL05280-15S1	19,526
HARBURY, CHRISTINA B.	PLATELET MEMBRANE FUNCTION: ASSESSMENT & APPLICATION	1R01 HL17930-01A1	64,453
HARRISON, DONALD C.	PHARMACOLOGIC AND PHYSIOLOGIC BASIS OF CARDIAC THERAPY	5P01 HL15833-03	380,181
HARRISON, DONALD C.	AUTOMATIC RADIOGRAPHIC IMAGE ANALYSIS BY LV MODELLING	1R01 HL18870-01	31,200
HAYES, WILSON C.	MECHANICS OF NORMAL, ARTHRITIC AND PROSTHETIC KNEES	5R01 AM18376-02	29,401
HAYFLICK, LEONARD	HUMAN CANCER CELL RECONSTRUCTION AND TRANSFORMATION	1R01 CA18456-01	68,780
HELLER, H. CRAIG	THERMOREGULATION DURING SLEEP AND TORPOR IN MAMMALS	1R01 GM23695-01	32,900
HELLER, H. CRAIG	CNS REGULATION OF BODY TEMPERATURE	5R01 NS10367-05	46,480
HERZENBERG, LEONARD A.	IMMUNOGLOBULINS: GENETICS AND REGULATION	5R01 AI08917-12	91,349
HERZENBERG, LEONARD A.	GENETIC STUDIES WITH MAMMALIAN CELLS	5R01 CA04681-17	136,482
HERZENBERG, LEONARD A.	GENETIC STUDIES WITH MAMMALIAN CELLS	5R01 CA04681-18	138,849
HERZENBERG, LEONARD A.	CLINICAL AND BIOLOGICAL USES OF AUTOMATED CELL-SORTING	2R01 GM17363-07	411,951
HERZENBERG, LEONARD A.	FETAL-MATERNAL IMMUNOLOGICAL INTERACTIONS	5R01 HD01287-14	87,845
HILGARD, ERNEST R.	PAIN CONTROL THROUGH HYPNOSIS IN CHILDHOOD CANCER	1R18 CA18325-01	34,903
HILGARD, ERNEST R.	PAIN CONTROL THROUGH HYPNOSIS IN CHILDHOOD CANCER	5R18 CA18325-02	48,759
HINTZ, RAYMOND L.	SOMATOMEDIN: IN VIVO AND IN VITRO ACTIONS	7R01 AM19168-01	23,320
HINTZ, RAYMOND L.	SOMATOMEDIN: IN VIVO AND IN VITRO ACTIONS	5R01 AM19168-02	32,751
HODGSON, KEITH O.	STRUCTURE OF TUMOR REGULATORY PROTEINS	5R01 CA16748-02	84,396
HOGNESS, DAVID S.	THE ARRANGEMENT OF INFORMATION IN ANIMAL CHROMOSOMES	5R01 GM20158-04	116,724
HOLM, RICHARD H.	BIOLOGICALLY RELATED IRON-SULFUR CHEMISTRY	2R01 GM22352-02	151,099
HOLMAN, HALSTED R.	AUTOIMMUNE TISSUE DAMAGE AND ITS POTENTIAL REVERSAL	5R01 AM05425-14	71,145
HOLTZMAN, SHERMAN D.	LEAD TOXICITY AND ENERGY METABOLISM IN IMMATURE BRAIN	1R01 ES01197-01	96,804
HOLTZMAN, SHERMAN D.	LEAD TOXICITY AND ENERGY METABOLISM IN IMMATURE BRAIN	5R01 ES01197-02	73,788
HUDSON, BRUCE S.	ELECTRONIC AND BUOYANT PROPERTIES OF ETHIDIUM AND DNA	5R01 CA15461-03	43,912
HUDSON, BRUCE S.	ELECTRONIC STRUCTURE OF THE VISUAL POLYENES	5R01 EY01518-02	30,640
HUDSON, BRUCE S.	ELECTRONIC AND RAMAN SPECTRAL STUDIES OF MEMBRANES	5R01 GM21149-03	26,034
HUESTIS, WRAY H.	NEUROTRANSMITTER RECEPTORS IN HUMAN ERYTHROCYTES	1R01 HL18660-01	61,072
INKELES, ALEX	SUBJECTIVE EXPERIENCE AND NATALITY IN SIX COUNTRIES	5R01 HD08950-02	58,394
JAMISON, REX L.	MICROPUNCTURE STUDIES OF THE MAMMALIAN RENAL MEDULLA	5R01 AM18077-05	124,845
JAMISON, REX L.	MICROPUNCTURE STUDIES OF THE MAMMALIAN RENAL MEDULLA	5R01 AM18077-06	131,620
JARDETZKY, OLEG	NMR STUDY OF THE LAC-REPRESSOR PROTEIN	5R01 GM18098-06	111,401
JARDETZKY, OLEG	HIGH-FREQUENCY NMR BIOTECHNOLOGY RESOURCE	3P41 RR007111-03S1	17,175
JARDETZKY, OLEG	HIGH FREQUENCY NMR BIOTECHNOLOGY RESOURCE	2P41 RR007111-04	220,432
JOHNSON, WILLIAM S.	STEROID AND TERPENOID SYNTHESIS AND RELATED STUDIES	5R01 AM03787-17	129,296
KAISER, ARMIN D.	BIOCHEMICAL GENETIC STUDIES OF VIRUS MULTIPLICATION	5R01 AI04509-15	120,916
KALLMAN, ROBERT F.	EXPERIMENTAL RADIOTHERAPY—CELLULAR RESPONSES IN VIVO	5R01 CA03353-19	88,719
KALLMAN, ROBERT F.	COMBINED MODALITIES: CELL, TUMOR AND TISSUE EFFECTS	1R01 CA20527-01	120,241
KALMAN, SUMNER M.	DRUG DOSAGE IN MAN—INITIAL STUDIES WITH DIGOXIN	5R01 HL13618-06	48,887
KAPLAN, ERNEST N.	PROLONGED SURVIVAL OF TISSUE CULTURED SKIN GRAFTS	5R01 AM17199-03	50,189
KAPLAN, HENRY S.	BIOLOGICAL ASPECTS OF CARCINOGENESIS BY RADIATION	5R01 CA03352-20	137,513
KAPLAN, HENRY S.	CANCER CENTER SUPPORT GRANT (SPECIALIZED)	5P01 CA05838-15	1,647,927
KAPLAN, HENRY S.	RADIOBIOLOGY/ONCOLOGY RESEARCH PROGRAM	5P30 CA10372-09	760,974
KAPLAN, HENRY S.	RADIOBIOLOGY/ONCOLOGY RESEARCH PROGRAM	5P30 CA10372-10	828,962
KARASEK, MARVIN A.	METABOLISM OF PYRIMIDINE NUCLEOTIDES IN SKIN	5R01 AM10332-11	74,933
KARASEK, MARVIN A.	METABOLIC CONTROL OF EPIDERMAL CELL GROWTH	5R01 AM14121-07	90,982
KARLIN, SAMUEL	STOCHASTIC MODELS IN MEDICINE AND BIOLOGY	2R01 GM10452-13	110,971
KEDES, LAURENCE H.	EMBRYONIC CHROMOSOMAL PROTEINS AND THEIR RNA TEMPLATES	5R01 GM17995-04	68,997
KENDIG, JOAN J.	EXCITABLE CELL FUNCTION AT HYPERBARIC PRESSURES	1R01 NS13108-01	50,215
KENNEDY, DONALD	ANALYSIS OF NEURONAL PATHWAYS	2R01 NS02944-16	103,580
KORN, DAVID	DNA POLYMERASES IN NORMAL AND NEOPLASTIC HUMAN CELLS	5R01 CA14835-04	107,208
KORNBERG, ARTHUR	BIOSYNTHESIS OF DNA MEMBRANES AND VIRUSES	5R01 GM07581-15	258,061
KORNBERG, ARTHUR	BIOSYNTHESIS OF DNA MEMBRANES AND VIRUSES	5R01 GM07581-16	277,406
KRISS, JOSEPH P.	STUDIES ON LONG-ACTING THYROID STIMULATOR	5R01 AM07642-13	72,280
LEDERBERG, ESTHER M.	GENE EXPRESSION AND DNA STRUCTURE OF R-PLASMIDS	5R01 AI11520-02	48,457
LEDERBERG, ESTHER M.	A STOCK CENTER FOR ANTIBIOTIC RESISTANCE PLASMIDS	1R01 AI13093-01	75,181

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
LEDERBERG, JOSHUA	GENETICS OF BACTERIA	5R01 CA16896-18	108,076
LEDERBERG, JOSHUA	GENETICS RESEARCH PROJECT	5P01 GM20832-02	374,058
LEDERBERG, JOSHUA	SUPPORT FOR COMPUTING FACILITY	5P41 RR00785-03	532,701
LEDERBERG, JOSHUA	SUPPORT FOR COMPUTING FACILITY	5P41 RR00785-04	659,360
LEHMAN, I ROBERT	GENETIC RECOMBINATION AND VIRAL DNA SYNTHESIS	5R01 GM06196-17	143,426
LEHMAN, I ROBERT	GENETIC RECOMBINATION AND VIRAL DNA SYNTHESIS	5R01 GM06196-18	157,572
LEVINE, SEYMOUR	DEVELOPMENTAL AND BEHAVIORAL NEUROENDOCRINOLOGY	5P01 HD02881-09	207,605
LEVINE, SEYMOUR	DEVELOPMENTAL AND BEHAVIORAL NEUROENDOCRINOLOGY	2P01 HD02881-11	220,489
LUCAS, ZOLTAN J.	REGULATORY CONTROL OF LYMPHOCYTE DIFFERENTIATION	3R01 AM12458-08S1	6,254
LUCAS, ZOLTAN J.	ANALYSIS OF HOST RESPONSE TO TUMOR ONCOGENESIS	5R01 CA14777-03	108,185
LUETSCHER, JOHN A, JR	SECRETION AND EFFECTS OF ADRENAL HORMONES	5R01 HL13917-17	96,968
LUETSCHER, JOHN A, JR	SECRETION AND EFFECTS OF ADRENAL HORMONES	2R01 HL13917-18	124,216
LUETSCHER, JOHN A, JR	'BIG RENIN' PROPERTIES, PHYSIOLOGIC/DIAGNOSTIC ROLE	5R01 HL17364-02	18,483
MACCOBY, ELEANOR E.	BASIC PROCESSES IN COGNITIVE AND SOCIAL DEVELOPMENT	5P01 HD09814-02	278,901
MACOVSKI, ALBERT	COMPUTERIZED X-RAY TOMOGRAPHY OF THE BODY	5R01 GM21627-02	39,156
MANSOUR, TAG E.	CHEMICAL AGENTS AND HEART GLYCOLYTIC ENZYMES	5R01 HL17976-16	76,236
MARMOR, MICHAEL F.	INTERACTION BETWEEN RETINA AND PIGMENT EPITHELIUM	5R01 EY01678-02	67,376
MATHERS, LAWRENCE H.	DEVELOPMENT AND PLASTICITY IN A VISUAL SYSTEM	5R01 NS11669-03	49,689
MAURICE, DAVID M.	CONTROL OF CORNEAL HYDRATION	5R01 EY00431-08	226,553
MAURICE, DAVID M.	TRANSPORT PROCESSES ACROSS THE CORNEAL EPITHELIUM	5R01 EY00915-05	78,036
MAZE, RICHARD I.	NEPHROTOXICITY OF FLUORINATED ANESTHETICS	1R01 GM22467-01	68,459
MC CONNELL, HARDEN M.	SPIN-LABEL HAPTENS, MEMBRANE FLUIDITY, IMMUNE RESPONSE	1R01 AI13587-01	125,961
MC DEVITT, HUGH O.	GENETIC CONTROL OF THE IMMUNE RESPONSE	5R01 AI07757-10	223,870
MC DEVITT, HUGH O.	HUMORAL, CELLULAR & GENETIC MECHANISMS IN AUTOIMMUNITY	5P01 AI11313-04	223,270
MC DEVITT, HUGH O.	DEVELOPMENTAL ANALYSIS OF THE MURINE T/T ALLELE MUTANTS	5R01 HD09410-02	114,156
MEINDL, JAMES D.	CENTER FOR INTEGRATED ELECTRONICS IN MEDICINE	2P50 GM17940-06	920,182
MEINDL, JAMES D.	CENTER FOR INTEGRATED ELECTRONICS IN MEDICINE	5P50 GM17940-07	941,413
MERIGAN, THOMAS C.	CHEMISTRY OF THE INTERFERON MOLECULE	5R01 AI05629-14	101,713
MERIGAN, THOMAS C.	EFFECT OF INTERFERON THERAPY ON NONHODGKIN'S LYMPHOMA	3R01 CA16857-01S1	25,725
MERIGAN, THOMAS C.	EFFECT OF INTERFERON THERAPY ON NONHODGKIN'S LYMPHOMA	2R01 CA16857-02	45,730
MILLER, RUPERT G, JR.	ADAPTATION OF NEW STATISTICAL IDEAS FOR MEDICINE	5R01 GM21215-02	107,442
MILLER, WILLIAM F.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07005-11	171,454
MOSHER, HARRY S.	AMPHIBIAN TOXINS, CHEMISTRY AND PHARMACOLOGY	2R01 GM16031-15	39,759
MOSHER, HARRY S.	CHIRAL HYDRIDE TRANSFER AGENTS	5R01 GM19554-04	48,255
NICHOLLS, JOHN G.	INTEGRATION AND REGENERATION IN THE NERVOUS SYSTEM	2R01 NS11544-03	97,709
NICHOLLS, JOHN G.	INTEGRATION AND REGENERATION IN THE NERVOUS SYSTEM	5R01 NS11544-04	95,377
NORTHWAY, WILLIAM H, JR.	PULMONARY OXYGEN TOXICITY IN THE NEWBORN LUNG	5R01 HL14663-05	78,948
PAYNE, ROSE O.	LEUKOCYTE ANTIGENS AND ANTIBODIES	5R01 HL03365-19	136,924
PECORA, ROBERT.	DYNAMIC LIGHT SCATTERING FROM BIOLOGICAL SYSTEMS	1R01 GM22517-01	54,133
PERKEL, DONALD H.	STOCHASTIC MODELS OF NEURAL SYSTEMS	5R01 NS09744-07	97,894
PERKINS, DAVID D.	GENETICS OF NEUROSPORA	5R01 AI01462-20	124,002
PERKINS, DAVID D.	GENETICS OF NEUROSPORA	5R01 AI01462-21	126,938
PITTEDRIGH, COLIN S.	CIRCADIAN ORGANIZATION AND THE AGING PROCESS	5R01 AG00490-02	48,313
PIZALI, ROBERT L.	STRUCTURAL CHARACTERISTICS OF THE HUMAN KNEE	1R01 AM18181-01A1	57,421
PRINCE, DAVID A.	CELLULAR MECHANISMS IN FOCAL EPILEPTOGENESIS	5R01 NS06477-11	81,190
PRINCE, DAVID A.	EPILEPSY RESEARCH PROGRAM	5P50 NS12151-02	282,537
RAFFEL, SIDNEY	PROGRAMMED SENESCENCE IN CULTURED HUMAN CELLS	5R01 AG00428-07	35,752
RAFFEL, SIDNEY	MECHANISMS IN THE ACQUIRED CELLULAR IMMUNE RESPONSE	5R01 AI01178-20	70,032
RATHER, LELLAND J.	HISTORICAL STUDY OF HISTOGENESIS OF NEOPLASMS	5R01 LM02058-03	12,900
REAVEN, GERALD M.	LIPEMIA-CARBOHYDRATE AND GLYCERIDE METABOLISM	5R01 HL08506-13	86,329
REAVEN, GERALD M.	VLDL-TG METABOLISM IN DIABETES MELLITUS	1R01 HL20397-01	156,757
RICH, CLAYTON	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00070-14	600,850
RICH, CLAYTON	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05353-15	261,305
ROBERTSON, CHANNING R.	STUDIES OF RENAL SOLUTE AND WATER TRANSPORT	9R01 AM18910-04	53,787
ROBINSON, WILLIAM S.	THE VIRUS OF HUMAN HEPATITIS B	1R01 AI13526-01	142,271
ROBINSON, WILLIAM S.	BIOCHEMICAL EVENTS AFTER RNA TUMOR VIRUS INFECTION	5R01 CA10467-09	127,587
ROBINSON, WILLIAM S.	INHERITANCE AND EXPRESSION OF AVIAN C-TYPE VIRUSES	2R01 CA10467-10	106,963
ROSENBERG, LEON T.	IMMUNOLOGIC AND GENETIC STUDIES OF SERUM COMPLEMENT	5R01 AI09341-06	57,391
ROSENTHAL, A RALPH	COMPUTER MAPPING OF THE OPTIC NERVE HEAD	5R01 EY01248-03	34,449
RUBINSTEIN, LUCIEN J.	DIFFERENTIATION AND STROMA-INDUCTION IN NEURAL TUMORS	5R01 CA11689-05	105,368

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
SAKITT, BARBARA	PROBLEMS IN HUMAN VISION	5R01 EY01336-03	32,453
SCHIMKE, ROBERT T.	MOLECULAR MECHANISMS IN RESISTANCE TO FOLATE ANALOGUES	5R01 CA16318-02	59,622
SCHIMKE, ROBERT T.	ENZYME SYNTHESIS AND DEGRADATION IN METABOLIC CONTROL	5R01 GM14931-10	87,851
SCHIMKE, ROBERT T.	ENZYME SYNTHESIS AND DEGRADATION IN METABOLIC CONTROL	2R01 GM14931-11	170,971
SCHRIER, STANLEY L.	METABOLISM OF ERYTHROCYTE STROMA	5R01 AM13682-17	108,752
SCHULMAN, IRVING	HEMOSTASIS AND HEMORRHAGIC DISEASE IN CHILDREN	5R01 HD07300-04	96,434
SCHURMAN, DAVID J.	JOINT INFECTIONS AND ARTICULAR CARTILAGE DESTRUCTION	1R01 AM17948-01A1	69,600
SCHWARTZ, HERBERT C.	EXTRAUTERINE GROWTH AND ADAPTATION	5P01 HD02147-10	266,947
SHOOTER, ERIC M.	NERVE GROWTH FACTOR IN NEURONAL DEVELOPMENT	2R01 NS04270-14	136,080
SHUMWAY, NORMAN E.	ORTHOTOPIC HEART TRANSPLANTATION	2R01 HL08696-12	265,457
SHUMWAY, NORMAN E.	ORTHOTOPIC HEART TRANSPLANTATION	5R01 HL08696-13	279,637
SIMMONS, F BLAIR	DEVELOPMENT OF A COCHLEAR PROSTHESIS	2R01 NS10532-04	166,052
SIMMONS, F BLAIR	FIELD TEST OF NEWBORN HEARING TESTING DEVICE	5R01 NS12326-02	81,740
SIMONI, ROBERT D.	STUDIES ON MEMBRANE FUNCTION AND CELLULAR ENERGETICS	5R01 GM18539-05	53,264
SIMONI, ROBERT D.	STUDIES ON MEMBRANE FUNCTION AND CELLULAR ENERGETICS	5R01 GM18539-06	59,298
SIMONI, ROBERT D.	REGULATION OF CHOLESTEROL METABOLISM	5R01 HL18219-02	32,241
SMITH, KENDRIC C.	REPAIR OF RADIATION-INDUCED LESIONS IN DNA	5R01 CA02896-20	114,002
SMITH, KENDRIC C.	MOLECULAR BASIS OF RADIATION LETHALITY	5R01 CA06437-15	67,379
SMITH, MARION E.	BIOSYNTHESIS OF LIPIDS IN EXPERIMENTAL DEMYELINATION	5R01 NS02785-16	62,390
SMITH, MARION E.	BIOSYNTHESIS OF LIPIDS IN EXPERIMENTAL DEMYELINATION	5R01 NS02785-17	35,641
STAMEY, THOMAS A.	BIOLOGY OF T-MYCOPLASMAS: POTENTIAL HUMAN PATHOGENS	5R01 AI11805-03	53,139
STAMEY, THOMAS A.	PYELOURETERAL PACEMAKER SYSTEM	1R01 AM19366-01	88,404
STARK, GEORGE R.	ASPECTS OF CONTROL IN MAMMALIAN GENE EXPRESSION	5R01 CA17287-02	195,122
STEELE, CHARLES R.	MECHANICS OF THE ORGAN OF CORTI	5R01 NS12086-02	46,695
STINSON, EDWARD B.	CLINICAL HEART TRANSPLANTATION	3P01 HL13108-06S1	155,875
STINSON, EDWARD B.	CLINICAL HEART TRANSPLANTATION	5P01 HL13108-07	998,355
STOCKDALE, FRANK E.	STUDIES OF CELL DIFFERENTIATION	5R01 AM16466-03	69,658
STOCKDALE, FRANK E.	DNA POLYMERASE IN HUMAN LEUKEMIA	5R01 CA15939-02	49,454
STOCKER, BRUCE A.	GENETICS AND PHYSIOLOGY OF SALMONELLA TYPHIMURIUM	5R01 AI07168-11	83,108
STROBER, SAMUEL	MATURATION OF B LYMPHOCYTES IN RATS	5R01 AI10293-05	82,039
STROBER, SAMUEL	MATURATION OF B LYMPHOCYTES IN RATS	5R01 AI10293-06	122,456
STROBER, SAMUEL	ALTERATIONS OF T CELLS IN LYMPHOPROLIFERATIVE DISEASE	5R01 CA17004-02	62,882
SUNSHINE, PHILIP	REGULATION OF ENZYME ACTION DURING DEVELOPMENT	5R01 HD00391-17	72,456
SUNSHINE, PHILIP	REGULATION OF ENZYME ACTION DURING DEVELOPMENT	5R01 HD00391-18	78,932
SUNSHINE, PHILIP	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00081-14	513,406
SUSSMAN, HOWARD H.	ECTOPIC PLACENTAL PROTEINS IN HUMAN CANCER	5R01 CA13533-05	86,162
TAUBE, HENRY	BIOCHEMICALLY SIGNIFICANT MOLECULES AS LIGANDS	5R01 GM13638-11	75,646
TAUBE, HENRY	THE REDUCTION OF DINITROGEN IN AQUEOUS SOLUTION	5R01 GM22045-02	47,939
TSUBOI, KENNETH K.	CELLULAR PROLIFERATION IN COLON	2R26 CA14917-04	78,172
TUNE, BRUCE M.	RENAL TRANSPORT AND INTERACTION OF ORGANIC ACID DRUGS	5R01 AM17647-03	41,505
VAN TAMELEN, EUGENE E.	SYNTHESIS OF ALKALOIDS AND TERPENOIDS	5R01 GM10421-14	82,117
VAN TAMELEN, EUGENE E.	TOTAL SYNTHESIS OF RIBONUCLEIC ACIDS	5R01 GM20677-03	60,976
VOSTI, KENNETH L.	BACTERIOLOGY AND SEROLOGY OF PYELONEPHRITIS	5R01 AI03638-16	39,836
WEINER, MICHAEL W.	EFFECTS OF DIURETICS AND SODIUM ON RENAL METABOLISM	5R01 AM18602-02	34,050
WEISSBLUTH, MITCHEL	STRUCTURAL STUDIES OF BIOMOLECULES BY EXAFS METHOD	5R01 AM17577-02	71,320
WEISSBLUTH, MITCHEL	STRUCTURAL STUDIES OF BIOMOLECULES BY EXAFS METHOD	5R01 AM17577-03	75,417
WEISSMAN, IRVING L.	ROLE OF THE THYMUS IN IMMUNOLOGICAL DEVELOPMENT	5R01 AI09072-08	140,066
WESSELLS, NORMAN K.	MECHANISMS OF ORGAN DEVELOPMENT	5R01 HD04708-07	88,975
WIDROW, BERNARD	FETAL ELECTROCARDIOGRAPHY	5R01 HL18307-02	37,652
WILKINSON, DAVID I.	CONTROL OF EPIDERMAL CELL HOMEOSTASIS	5R01 AM15107-05	77,989
WILKINSON, DAVID I.	CONTROL OF EPIDERMAL CELL HOMEOSTASIS	5R01 AM15107-06	86,190
WILSON, LESLIE	DRUG INTERACTIONS WITH BRAIN MICROTUBULE PROTEINS	5R01 NS09335-06	44,429
WOLF, ARTHUR P.	FERTILITY AND THE FAMILY IN RURAL TAIWAN, 1905-1945	5R01 HD08750-02	63,165
YANOFSKY, CHARLES	GENETIC/BIOCHEMICAL STUDY OF TRYPTOPHAN SYNTHETASE	5R01 GM09738-14	83,728
YEAGER, ANNE S.	CYTOMEGALOVIRUS: TRANSMISSION TO NEWBORNS BY BLOOD	1R01 HD09872-01	58,223
ZATZ, LESLIE M.	ULTRASONIC CAMERA FOR SOFT TISSUE IMAGING: PART B	2R01 GM20774-03	40,572
ZWENG, H CHRISTIAN	THE USES OF LASERS IN OPHTHALMIC DISEASES	5R01 EY00318-07	62,762
ORGANIZATION TOTAL	238	31,428,716	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CALIFORNIA—Continued</b>			
<b>THOUSAND OAKS</b>			
<b>AMERICAN SOCIETY OF ZOOLOGISTS ZIP CODE 91360</b>			
HILLMAN, RALPH	SYMPOSIUM ON GENE REGULATION AND DEVELOPMENT	1R13 GM26264-01	14,030
ORGANIZATION TOTAL	1	14,030	
<b>TORRANCE</b>			
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL ZIP CODE 90509</b>			
ANTHONY, BASCOM F.	ROLE OF GROUP B STREPTOCOCCI IN PERINATAL DISEASE	5R01 HD07559-02	76,998
BARAJAS, LUCIANO	ELECTRON MICROSCOPY OF THE JUXTAGLOMERULAR APPARATUS	5R01 HL18340-02	48,855
BEALL, GILDON N.	MECHANISMS OF THYROID STIMULATION IN GRAVES' DISEASE	5R01 AM18316-02	57,267
BENFIELD, JOHN R.	LUNG CANCER MODEL FOR SURGICAL RESEARCH	2R01 CA16201-03	82,675
BLOCK, JEROME B.	PLANNING FOR CANCER SUPPORT GRANT	5P20 CA15750-02	77,974
BLOCK, JEROME B.	WESTERN CANCER STUDY GROUP	1R10 CA18290-01	97,423
BRAY, GEORGE A.	CLINICAL AND EXPERIMENTAL STUDY OF OBESITY	2R01 AM15165-06	65,453
BRAY, GEORGE A.	LONG TERM CONTROL OF BODY WEIGHT	5R01 AM18186-02	31,955
BRADY, MARY A.	ELECTROPHYSIOLOGICAL STUDIES OF THE EPILEPTIC BRAIN	5R01 NS11379-04	120,323
BYFIELD, JOHN E.	IMMUNE SURVEILLANCE? STUDIES ON A HUMAN CANCER MODEL	5R01 CA15587-02	47,352
CASABURI, RICHARD	DYNAMIC INTERRELATIONS UNDERLYING EXERCISE HYPERPNEA	1R01 HL19410-01	51,127
EDWARDS, JOHN E.	STUDY OF HEMATOGENOUS CANDIDA ALBICANS ENDOPHTHALMITIS	2R01 EY01066-04	50,488
EFFROS, RICHARD M.	PATHOGENESIS AND MEASUREMENT OF PULMONARY EDEMA	1R01 HL18606-01	53,272
EFFROS, RICHARD M.	PATHOGENESIS AND MEASUREMENT OF PULMONARY EDEMA	5R01 HL18606-02	39,011
FINKLESTEIN, JERRY Z.	CHILDREN'S CANCER STUDY GROUP A	5R10 CA14560-03	67,811
FIREMARK, HUGH M.	MELATONIN TRANSPORT IN THE CENTRAL NERVOUS SYSTEM	5R01 NS12089-02	37,301
FISHER, DELBERT A.	THYROID FUNCTION IN THE FETUS AND NEWBORN	5R01 HD04270-08	120,322
FISHER, DELBERT A.	VASOPRESSIN PHYSIOLOGY IN THE FETUS AND NEWBORN	5R01 HD06335-04	61,618
FU, PAUL C.	BIOGENESIS AND EFFECTS OF ETHYLENE IN ANIMALS	1R01 GM22796-01	26,550
GLASSOCK, RICHARD J.	PATHOPHYSIOLOGY OF EXPERIMENTAL GLOMERULAR INJURY	2R01 AM16565-04	70,648
GUZE, LUCIEN B.	MEASUREMENT OF ENDOTOXIN: USE OF MASS SPECTROSCOPY	5R01 AI12343-02	38,479
HEINER, DOUGLAS C.	PERINATAL RECOGNITION AND MANAGEMENT OF ALLERGY	5R01 HD09327-02	71,574
HEPNER, GERSHON W.	BILE SECRETION AND ENTEROHEPATIC CIRCULATION OF DRUGS	7R01 AM19844-01	77,793
LAKS, MICHAEL M.	HEMODYNAMICS AND HEART STRUCTURE-VENTRICULAR OVERLOAD	5R01 HL14717-04	78,331
MILLER, MICHAEL E.	PULMONARY COMPLICATIONS OF VIRAL INFECTIONS	1R01 HL20002-01	67,953
MORIN, ROBERT J.	PLATELET FUNCTION AND ADENINE NUCLEOTIDE METABOLISM	5R01 HL14344-05	44,456
PILCH, YOSEF H.	PRIMARY BREAST CANCER THERAPY GROUP (NSABP)	5R10 CA12041-05	29,680
PILCH, YOSEF H.	IMMUNOTHERAPY OF CANCER WITH LYMPHOID EXTRACTS	5R01 CA15372-03	101,401
PILCH, YOSEF H.	IMMUNOTHERAPY OF COLORECTAL CANCER WITH 'IMMUNE' RNA	5R26 CA18086-02	41,182
PILCH, YOSEF H.	MECHANISM OF ACTION OF ANTITUMOR 'IMMUNE' RNA	3R01 CA18321-01S1	11,109
RIMOIN, DAVID L.	GENETICS AND PATHOGENESIS OF THE CHONDRODYSTROPHIES	5R01 HD05624-06	68,669
SAMLOFF, I MICHAEL	PEPSINOGEN POLYMORPHISM IN MAN	5R01 AM13233-08	71,302
SHOME, BASUDEV	HUMAN GONADOTROPINS: CHEMICAL STRUCTURE, IMMUNOBIOLOGY	5R01 AM16748-03	47,885
SPEARLING, MARK A.	GLUCAGON PHYSIOLOGY IN THE FETUS, NEWBORN, AND CHILD	2R01 HD07087-04	62,706
STRATTON, JOAN A.	CELLULAR IMMUNITY & THYMIC RADIATION IN HUMAN CANCERS	5R01 CA15054-03	69,797
SWANSON, WILLIAM H.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00425-08	769,395
SWANSON, WILLIAM H.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05551-14	155,180
TANAKA, KOICHI R.	METABOLIC AND BIOCHEMICAL STUDIES OF BLOOD CELLS	2R01 AM14898-14	91,288
WEICHSSEL, MORTON E, JR	HORMONAL REGULATION OF BRAIN PYRIMIDINE BIOSYNTHESIS	5R01 HD09277-02	43,126
WHIPP, BRIAN J.	CHEMORECEPTOR FUNCTION IN DYNAMIC VENTILATORY CONTROL	2R01 HL14967-04	44,431
YEE, ROBERT D.	OCULAR MOTOR SUBSYSTEMS IN CONGENITAL NYSTAGMUS	1R01 EY01853-01	14,020
ZAMBONI, LUCIANO	FOLLICULOGENESIS IN FETAL AND ADULT MAMMALIAN OVARIES	5R01 HD09011-02	50,069
ZAMBONI, LUCIANO	EXPERIMENTAL STUDIES ON INITIATION OF DEVELOPMENT	1R01 HD09913-01	44,940
ORGANIZATION TOTAL	43	3,379,189	
STATE TOTAL	2,182	217,040,717	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>COLORADO</b>			
<b>BOULDER</b>			
<b>UNIVERSITY OF COLORADO</b>	<b>ZIP CODE 80302</b>		
BERG, HOWARD C.	PHOTOPHYSIOLOGY IN A BACTERIUM CONTAINING RHODOPSIN	3R01 EY01263-02S1	5,897
BERG, HOWARD C.	PHOTOPHYSIOLOGY IN A BACTERIUM CONTAINING RHODOPSIN	2R01 EY01263-03	43,742
BONNEVILLE, MARY A.	ISOLATION AND CHARACTERIZATION OF PLASMA MEMBRANE	2R01 GM18267-06	60,187
CARUTHERS, MARVIN H.	STUDIES ON DNA REGULATORY REGIONS OF CHROMOSOMES	5R01 GM21120-03	46,819
CARUTHERS, MARVIN H.	STUDIES WITH THE OPERATOR OF THE LACTOSE OPERON	5R01 GM21644-02	19,289
CRISTOL, STANLEY J.	SYNTHESIS AND REACTIONS OF ALKYLATING AGENTS	5R01 CA13199-05	50,933
DANNA, KATHLEEN J.	TUMOR VIRUS DNA, A MOLECULAR VEHICLE FOR ENZYME GENES	1R01 CA18212-01	89,284
DUBIN, MARK W.	RECEPTIVE FIELD ORGANIZATION IN THE VISUAL SYSTEM	3R01 EY00998-03S1	4,974
DUBIN, MARK W.	VISUAL RECEPTIVE-FIELD ORGANIZATION AND DEVELOPMENT	2R01 EY00998-04	62,701
FALL, R. RAY	REGULATION OF LIPID METABOLISM	5R01 HL16628-03	39,415
FIFKOVA, EVA	VISUAL DEPRIVATION AND SYNAPSES OF VISUAL CENTERS	5R01 EY01500-02	40,029
GILL, STANLEY J.	ENTROPY AND ENTHALPY CHANGES IN ABNORMAL HEMOGLOBINS	5R01 HL17472-02	27,803
GILL, STANLEY J.	THERMODYNAMICS OF ALLOSTERIC EFFECTS IN HEMOGLOBINS	1R01 HL18684-01	18,705
GOLD, LAWRENCE M.	REGULATION OF BACTERIOPHAGE T4 GENE EXPRESSION	5R01 GM19963-04	54,646
GOLDSTEIN, LESTER	BIOCHEMICAL INTERRELATIONS OF NUCLEUS AND CYTOPLASM	5R01 GM15156-09	70,215
HALLICK, RICHARD B.	GENE EXPRESSION IN CELL ORGANELLES	5R01 GM21351-03	31,436
HAM, RICHARD G.	PROGRAM PROJECT: CELL BIOLOGY OF AGING	5P01 AG00310-03	155,537
HAM, RICHARD G.	EFFECT OF MALIGNANCY ON CELL GROWTH REQUIREMENTS	5R01 CA15305-02	71,895
HIRSH, DAVID I.	GENETIC CONTROL OF DEVELOPMENT	2R01 GM19851-04	59,742
HIRSH, DAVID I.	GENETIC CONTROL OF DEVELOPMENT	5R01 GM19851-05	72,939
JONES, RICHARD E.	CONTROL OF SELECTIVE OVARIAN FOLLICULAR GROWTH	2R01 HD06233-04	41,546
KOCH, TAD H.	PHOTOCHEMICAL SYNTHESIS OF BIOACTIVE MOLECULES	5R01 GM18349-06	35,483
KUEMPEL, PETER L.	TERMINATION OF CHROMOSOME REPLICATION	5R01 GM15905-09	62,119
LIPETZ, MILTON E.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07013-11	108,065
MC CONKEY, EDWIN H.	MESSANGER RNA AND DIFFERENTIATION OF ANIMAL CELLS	5R01 GM20767-03	52,417
MC CONKEY, EDWIN H.	NUCLEOLAR FUNCTIONS	5R01 GM21749-02	57,491
PICKETT-HEAPS, JEREMY D.	CELL DIVISION AND MORPHOGENESIS	3R01 GM19718-03S1	23,313
PORTER, KEITH R.	HIGH-VOLTAGE ELECTRON MICROSCOPY OF BIOLOGICAL SYSTEMS	5P41 RR00592-06	143,248
PORTER, KEITH R.	HIGH-VOLTAGE ELECTRON MICROSCOPY OF BIOLOGICAL SYSTEMS	2P41 RR00592-07	274,166
PRESCOTT, DAVID M.	THE GENETIC APPARATUS OF HYPOTRICHOUS CILIATES	2R01 GM19199-04	98,093
PRESCOTT, DAVID M.	THE GENETIC APPARATUS OF HYPOTRICHOUS CILIATES	5R01 GM19199-05	88,978
SNYDER, GREGORY K.	OXYGEN TRANSPORT IN HYPOXIA	1R01 HL19235-01	41,357
SOLL, LARRY J.	GENETIC ANALYSIS OF tRNA STRUCTURE AND FUNCTION	5R01 GM21596-02	41,656
SPANGENBERG, DOROTHY B.	STATOLITH DIFFERENTIATION IN AURELIA (JELLYFISH)	5R01 DE03796-05	50,670
STAEHELIN, L. ANDREW	STRUCTURE AND FUNCTION OF FREEZE-ETCHED CELL MEMBRANES	5R01 GM18639-05	51,944
STAEHELIN, L. ANDREW	STRUCTURE-FUNCTION CORRELATIONS OF CHOROPLAST MEMBRANES	1R01 GM22912-01	36,450
SUEOKA, NOBORU	PLASMA MEMBRANE PROTEINS FROM MAMMALIAN CELL TUMORS	5R01 CA16856-02	72,566
SUEOKA, NOBORU	PLASMA MEMBRANE PROTEINS FROM MAMMALIAN CELL TUMORS	5R01 CA16856-03	70,662
SUEOKA, NOBORU	STUDIES OF CHROMOSOME REPLICATION	5R01 GM20352-04	88,386
SUEOKA, NOBORU	TRANSCRIPTION IN BRAIN AND NEUROTUMOR CELLS	1R01 GM22951-01	15,198
SUIH, CHUNG-HA	SCIENTIFIC RESEARCH ON FUNDAMENTALS OF CHIROPRACTIC	1P01 NS12226-01A1	167,056
THOMAS, DAVID R.	INVESTIGATIONS IN THE STIMULUS CONTROL OF BEHAVIOR	5R01 HD03486-08	65,791
WATT, DAVID S.	A PARTIAL SYNTHESIS OF ALDOSTERONE	1R01 GM22978-01	32,315
WILSON, IRWIN B.	STUDY OF ANGIOTENSIN CONVERTING ENZYME OF HUMAN SERUM	1R01 HL18908-01	10,157
WILSON, IRWIN B.	ENZYME THEORY AND RELATIONSHIP TO FUNCTION	5R01 NS07156-11	46,145
YARUS, MICHAEL J.	INTERACTIONS OF tRNA AND AMINOACYL-tRNA SYNTHETASES	5R01 GM15925-09	48,854
ORGANIZATION TOTAL	46	2,850,214	
<b>DENVER</b>			
<b>CHILDREN'S HOSPITAL</b>	<b>ZIP CODE 80218</b>		
FAVARA, BLAISE E.	SUPPORT FOR PEDIATRIC ONCOLOGY CENTER	5P01 CA12247-05	307,196
SHARMA, BRAHMA S.	IN VITRO IMMUNIZATION TO HUMAN TUMOR CELLS	7R01 CA20067-01	31,535
ZWARTJES, WILLIAM J.	SCHOOL PROBLEMS OF CHILDREN WITH MALIGNANT NEOPLASMS	1R18 CA19581-01	95,056
ORGANIZATION TOTAL	3	433,787	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>COLORADO—Continued</b>			
<b>COLORADO REGIONAL CANCER CENTER      ZIP CODE 80206</b>			
SILVERBERG, STEVEN G.....	CANCER CENTER CORE GRANT (COMPREHENSIVE).....	5P30 CA17060-02	87,931
ORGANIZATION TOTAL	1	87,931	
<b>DENVER HEALTH AND HOSPITALS DEPARTMENT—DENVER GENERAL HOSPITAL      ZIP CODE 80204</b>			
EISEMAN, BEN.....	TREATMENT OF HEPATIC FAILURE.....	3R01 AM17022-03S1	9,958
MOORE, GEORGE E.....	STUDIES OF HUMAN HEMATOPOIETIC AND CANCER CELLS.....	5R01 CA15018-03	153,954
MOORE, GEORGE E.....	IMPROVEMENT OF ANIMAL FACILITIES.....	5P40 RR00923-02	5,304
ORGANIZATION TOTAL	3	169,216	
<b>NATIONAL ASTHMA CENTER      ZIP CODE 80204</b>			
ALEXANDER, A BARNEY.....	THE SYMPTOMATIC TREATMENT OF ASTHMA BY RELAXATION.....	5R01 HL15620-03	38,408
CROPP, GERD J.....	STUDY OF EXERCISE-INDUCED BRONCHOSPASM.....	5R01 HL16074-03	42,527
KALISKER, ALBERT.....	CONTROL OF IMMUNE RESPONSES BY MAST CELL MEDIATORS.....	1R01 AI13592-01	36,634
MORRILL, CALLIS G.....	CONTROL OF RESPIRATION IN CHILDREN WITH ASTHMA.....	5R01 HL18135-02	35,050
VAZ, NELSON M.....	ORALLY-INDUCED IMMUNOLOGIC TOLERANCE TO PROTEINS.....	1R01 AI13474-01	72,435
VAZ, NELSON M.....	IMMUNOBIOLOGY OF IGE ANTIBODY PRODUCTION IN SJL/J MICE.....	1R01 CA20177-01	38,730
ORGANIZATION TOTAL	6	263,784	
<b>NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER      ZIP CODE 80206</b>			
ABEL, CARLOS A.....	CELL-CELL INTERACTIONS IN THE IMMUNE RESPONSE.....	5R01 AI11742-02	29,539
ABEL, CARLOS A.....	CELL-CELL INTERACTIONS IN THE IMMUNE RESPONSE.....	5R01 AI11742-03	36,935
CAMPBELL, PRISCILLA A.....	CELL BIOLOGY OF THE IMMUNE RESPONSE TO BACTERIA.....	2R01 AI11240-04	46,641
CARR, RONALD I.....	PATHOGENIC SIGNIFICANCE OF INGESTED ANTIGENS.....	5R01 AI10872-05	41,166
CHILLER, JACQUES M.....	CELLULAR MECHANISMS OF IMMUNOREGULATION AND TOLERANCE.....	1R01 AI13131-01	47,662
FARR, RICHARD S.....	ALLERGY DISEASE CENTER.....	2P50 AI10398-06	98,397
FARR, RICHARD S.....	IMMUNE REACTIONS TO INFECTIOUS AGENTS IN BRONCHITIS.....	5R01 HL16991-07	51,608
GOREN, MAYER B.....	SURFACE CHEMISTRY OF MYCOBACTERIA.....	5R22 AI08401-08	41,752
GOREN, MAYER B.....	SURFACE CHEMISTRY OF MYCOBACTERIA.....	2R22 AI08401-09	70,147
GREY, HOWARD M.....	STRUCTURE-FUNCTION RELATIONSHIPS OF IMMUNOGLOBULINS.....	5R01 AI09758-07	91,555
GREY, HOWARD M.....	MEMBRANE STRUCTURE OF NEOPLASTIC AND NORMAL LYMPHOCYTES.....	5R01 CA15895-03	85,628
HARBECK, RONALD J.....	CNS INVOLVEMENT IN IMMUNE COMPLEX DISEASE.....	5R01 NS12394-02	49,258
HAROLD, FRANKLIN M.....	TRANSPORT AND METABOLISM OF INORGANIC ELECTROLYTES.....	5R01 AI03568-14	53,067
HERCULES, KATHLEEN.....	MAPPING OF SV40 TRANSCRIPTION UNITS.....	1R01 CA19057-01	42,670
HOLLISTER, J ROGER.....	RECOVERY OF ANTIGENS IN ANIMAL AND HUMAN ARTHRITIS.....	1R01 AM18484-01A1	33,792
KUBO, RALPH T.....	BETA 2-MICROGLOBULIN ON THE SURFACE OF LYMPHOCYTES.....	5R01 AI12136-03	29,835
MAY, CHARLES D.....	OBJECTIVE DETECTION OF ALLERGIC REACTIONS TO FOODS.....	5R01 AI11623-02	17,465
MAY, CHARLES D.....	OBJECTIVE DETECTION OF ALLERGIC REACTIONS TO FOODS.....	5R01 AI11623-03	21,350
MC CLATCHY, J KENNETH.....	MODES OF ACTION OF ANTIMYCOBACTERIAL AGENTS.....	5R01 AI08190-09	24,323
MC GUIRE, EDWARD J.....	CELL ADHESION OF NORMAL AND MALIGNANT LIVER CELLS.....	2R01 CA14431-04	65,962
MINDEN, PERCY.....	PRIMARY ANTIGEN-ANTIBODY REACTIONS IN TUBERCULOSIS.....	5R01 CA15446-07	102,791
MORRIS, HELEN G.....	CYCLOC AMP METABOLISM IN LEUKOCYTES FROM ASTHMATICS.....	3R01 HL15313-03S1	3,109
PACE, NORMAN R.....	SYNTHESIS AND REGULATION OF EUKARYOTIC RIBOSOMAL RNA.....	5R01 GM20147-04	43,448
PACE, NORMAN R.....	MATURATION OF RIBOSOMAL RNA IN VITRO.....	1R01 GM22367-01	37,844
PACE, NORMAN R.....	MATURATION OF RIBOSOMAL RNA IN VITRO.....	5R01 GM22367-02	51,164
RICKENBERG, HOWARD V.....	CONTROL OF ENZYME BIOSYNTHESIS—ROLE OF CYCLIC AMP.....	5R01 AM11046-10	63,768
RICKENBERG, HOWARD V.....	CONTROL OF ENZYME BIOSYNTHESIS—ROLE OF CYCLIC AMP.....	2R01 AM11046-11	64,456
ROBINSON, ARTHUR.....	SEX CHROMOSOMAL ABNORMALITIES: A PROSPECTIVE STUDY.....	1R01 HD10032-01	99,597
ROBINSON, ARTHUR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05474-14	72,375
SANDS, HOWARD.....	CYCLOC AMP IN RELAXATION OF TRACHEOBRONCHIAL MUSCLE.....	2R01 HL14964-04	36,308
SANDS, HOWARD.....	CYCLOC AMP IN RELAXATION OF TRACHEOBRONCHIAL MUSCLE.....	5R01 HL14964-05	38,458
SOUHRADA, JOSEPH F.....	FUNCTIONAL CHARACTERISTICS OF SMOOTH MUSCLE FROM LUNG.....	5R01 HL17322-02	25,628
SOUHRADA, JOSEPH F.....	FUNCTIONAL CHARACTERISTICS OF SMOOTH MUSCLE FROM LUNG.....	5R01 HL17322-03	26,629
ORGANIZATION TOTAL	33	1,644,327	
<b>UNIVERSITY OF COLORADO MEDICAL CENTER      ZIP CODE 80220</b>			
ABRAMS, ADOLPH.....	STRUCTURE AND FUNCTION OF BACTERIAL MEMBRANE ATPASE.....	5R01 GM05810-17	49,011
ADAMS, WILLIAM R.....	STRUCTURE ELEMENT DETECTION BY ION INDUCED X-RAYS.....	5R01 GM20281-02	14,830
AUSTIN, JAMES H.....	STUDIES IN GENETICALLY DETERMINED NEUROLOGICAL DISEASES.....	5R01 NS07701-10	60,842

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>COLORADO—Continued</b>			
AUSTIN, JAMES H.....	STUDIES IN GENETICALLY DETERMINED NEUROLOGICAL DISEASES.....	5R01 NS07701-11	65,163
AUSTIN, JAMES H.....	STUDIES IN AGING OF THE BRAIN.....	5R01 NS09760-06	62,289
BANCHERO, NATALIO.....	OXYGEN TRANSPORT MECHANISMS IN HYPOXIA.....	1R01 HL18145-01A1	40,859
BATTAGLIA, FREDERICK C.....	STUDIES ON PREMATURITY.....	2P01 HD00781-13	293,938
BETZ, GEORGE.....	POPULATION CONTROL RESEARCH: ENZYME STUDIES.....	5R01 HD08309-03	40,175
BETZ, WILLIAM J.....	NEUROMUSCULAR SYNAPSES IN CELL CULTURE.....	5R01 NS10207-05	40,160
BOREK, ERNEST.....	PROGRAM PROJECT IN BASIC ONCOLOGY.....	5P01 CA13419-03	394,530
BOREK, ERNEST.....	METHYLATIONS IN TUMORS.....	5R01 CA14047-04	78,737
BOREK, ERNEST.....	METHYLATIONS IN TUMORS.....	5R01 CA14047-05	107,770
BROWN, JERRY L.....	MODIFICATION OF THE NH <sub>2</sub> -TERMINAL REGION OF PROTEINS.....	5R01 CA12574-05	52,174
BROWN, WILLIAM R.....	IMMUNOGLOBULIN A AND THE HUMAN GASTROINTESTINAL TRACT.....	5R26 CA17342-02	20,046
BURKE, THOMAS J.....	SERUM CALCIUM AND RENAL AUTOREGULATORY EFFICIENCY.....	5R01 AM17646-02	61,028
CANN, JOHN R.....	PHYSICOCHEMISTRY AND IMMUNOLOGY OF MACROMOLECULES.....	2R01 HL13909-25	62,939
CHIDSEY, CHARLES A.....	PHARMACOLOGY AND PATHOPHYSIOLOGY OF SYMPATHETIC NERVES.....	3R01 HL09932-10S1	22,501
CHIDSEY, CHARLES A.....	PHARMACOLOGY AND PATHOPHYSIOLOGY OF SYMPATHETIC NERVES.....	2R01 HL09932-11	17,045
CISAR, JOHN O.....	IMMUNOCHEMISTRY OF ORAL ACTINOMYCETES SURFACE ANTIGENS.....	1R23 DE04290-01	10,000
CLAMAN, HENRY N.....	IMMUNOLOGICAL CHANGES IN AGING.....	5R01 AG00464-03	58,215
CLAMAN, HENRY N.....	ALLERGIC DISEASE CENTER - ALLERGIC VASCULITIS.....	5P50 AI12028-03	45,072
CLAMAN, HENRY N.....	IMMUNOCOMPETENCE OF THYMUS CELLS.....	5R01 AI12685-11	83,918
COHEN, J JOHN.....	SUBPOPULATIONS OF THYMUS-DERIVED LYMPHOCYTES.....	5R01 AI11661-03	36,759
COHEN, SEYMOUR S.....	POLYAMINES IN CELLULAR METABOLISM AND FUNCTION.....	5R01 AI10424-05	101,997
COHEN, SEYMOUR S.....	STUDIES ON NORMAL AND VIRUS-INFECTED ANIMAL CELLS.....	5R01 AI11636-03	83,453
CONGER, JOHN D.....	PATHOGENESIS OF ACUTE RENAL FAILURE.....	5R01 HL18097-02	43,393
COTTON, ERNEST K.....	CARDIOPULMONARY ADAPTATION OF NEWBORNS TO ALTITUDE.....	5R01 HL15430-03	11,790
COTTON, ERNEST K.....	CARDIOPULMONARY ADAPTATION OF NEWBORNS TO ALTITUDE.....	5R01 HL15430-04	12,330
CROWLE, ALFRED J.....	MECHANISMS OF IMMUNOLOGICAL ENHANCEMENT.....	5R01 AI09867-06	38,314
CUMMINGS, DONALD J.....	REPLICATION, FUNCTION AND BIOGENESIS OF MITOCHONDRIA.....	1R01 GM21948-01A1	35,160
EIPPER, ELIZABETH A.....	BIOCHEMISTRY AND PHYSIOLOGY OF MULTIPLE FORMS OF ACTH.....	1R01 AM18929-01	69,096
ERIKSON, RAYMOND L.....	BIOSYNTHESIS OF VIRAL RNA'S.....	5R01 AI06844-11	34,284
FILLEY, GILES F.....	HUMAN PULMONARY SURFACTANT FUNCTION IN SITU.....	5R01 HL17544-02	51,075
FINK, LOUIS M.....	TRANSFORMATION OF CELLS BY CHEMICAL CARCINOGENS.....	5R01 CA15109-03	21,196
FRIEDMAN, SUSAN J.....	D-GLUCOSAMINE: POTENTIATOR IN CANCER CHEMOTHERAPY.....	2R01 CA16154-02	54,732
FROST, WARREN W.....	ANIMAL RESOURCE IMPROVEMENT.....	5P40 RR00786-03	17,174
GERNER, ROBERT E.....	CENTRAL ONCOLOGY GROUP.....	3R10 CA12204-04S1	15,607
GORDON, JULIUS A.....	INTERACTION OF LECTINS WITH CELL MEMBRANES.....	3R01 CA14313-03S1	6,626
GORDON, JULIUS A.....	STUDIES ON NORMAL AND NEOPLASTIC MEMBRANES.....	2R01 CA14313-04	41,458
GORDON, STUART G.....	MOLECULAR AND CELLULAR STUDY OF CANCER PROCOAGULANT A.....	2R01 CA14408-04	48,244
GROVER, ROBERT F.....	ADAPTATION TO HYPOXIA.....	3P01 HL14985-04S2	2,203
GROVER, ROBERT F.....	ADAPTATION TO HYPOXIA.....	5P01 HL14985-05	603,688
HAGERMAN, DWAIN D.....	BIOSYNTHESIS AND ACTION OF FEMALE HORMONES.....	5R01 HD05085-10	90,235
HAYN, WILLIAM E.....	GENETIC TRANSCRIPTION IN THE MAMMALIAN BRAIN.....	2R01 NS10813-04	44,974
HAMBIDGE, K MICHAEL.....	STUDIES OF HUMAN DEFICIENCIES OF CHROMIUM AND ZINC.....	5R01 AM12432-08	58,401
HATHAWAY, WILLIAM E.....	CLINICAL STUDIES OF FLETCHER FACTOR.....	1R01 HL18507-01	29,818
HUFFER, WILLIAM E.....	PATHOLOGY OF BONE IN DIALYSIS PATIENTS.....	1R01 AM18890-01	16,611
HUMBERT, JAMES R.....	LEUKOCYTE BACTERICIDAL POWER IN LEUKEMIA.....	3R01 CA15564-02S1	1,750
HUMBERT, JAMES R.....	LEUKOCYTE BACTERICIDAL POWER IN LEUKEMIA.....	5R01 CA15564-03	29,587
JONES, CAROL.....	IMMUNOLOGIC STUDIES RELATED TO MALIGNANCY.....	1R01 CA18734-01	67,907
KATSH, SEYMOUR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05357-15	261,305
KERN, FRED, JR.....	BILE SALT MALABSORPTION.....	5R01 AM12626-08	68,763
KERR, SYLVIA J.....	STUDY OF METHYLATIONS IN NEOPLASIA.....	5R01 CA12742-05	82,189
KIMBERLING, WILLIAM J.....	THE GENETICS OF AN EXPANDED SECRETOR SYSTEM.....	1R01 GM23114-01	24,370
KING, DONALD W.....	WORKSHOPS IN TECHNIQUES OF CANCER RESEARCH.....	5R13 CA15961-03	66,987
KIRSCH, WOLFF M.....	CELL SYNCHRONIZATION IN SOLID TUMORS.....	1R01 CA19137-01	30,660
KOZLOFF, LLOYD M.....	CHEMISTRY OF PHAGE INVASION, STRUCTURE, AND ASSEMBLY.....	5R01 AI06336-12	64,964
KOZLOFF, LLOYD M.....	CHEMISTRY OF PHAGE INVASION, STRUCTURE, AND ASSEMBLY.....	5R01 AI06336-13	69,060
LA FORCE, FRANCOIS M.....	DIAGNOSIS OF MENINGITIS BY GAS CHROMATOGRAPHY OF CSF.....	5R01 AI12161-02	34,232
LANGAN, THOMAS A.....	PROPERTIES AND FUNCTION OF NUCLEAR PHOSPHOPROTEINS.....	2R01 CA12877-06	83,219
LASHER, ROBERT S.....	DIFFERENTIATION AND TUMORGENESIS OF NEURAL CELLS.....	5R01 NS09641-06	26,293
LASHER, ROBERT S.....	DIFFERENTIATION OF GABA NEURONS IN THE CNS.....	1R01 NS13133-01	42,210
LEHMAN, JOHN M.....	PATHOLOGY OF NEOPLASTIC TRANSFORMATION.....	5R01 CA16030-02	27,848



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>COLORADO—Continued</b>			
LEHMAN, RALPH A.	LATERALIZATION OF HANDEDNESS, ATTENTION AND LEARNING	5R01 NS12117-02	28,305
LUBS, HERBERT A.	ORGANIZATION OF METAPHASE CHROMOSOMES	1R01 GM23121-01	37,122
MANES, COLE	STUDIES IN MAMMALIAN EMBRYOGENESIS	2R01 HD04274-07	127,777
MARTIN, A ROBERT	MECHANISMS OF SYNAPTIC TRANSMISSION	2R01 NS09660-07	55,635
MARTIN, A ROBERT	STUDY OF TROPIC INTERACTIONS AT SYNAPSES	5R01 NS10832-03	15,512
MC INTOSH, KENNETH	INFECTION AND CHILDHOOD OBSTRUCTIVE AIRWAY DISEASE	5R01 HD06819-04	85,597
MC INTOSH, KENNETH	INFECTION AND CHILDHOOD OBSTRUCTIVE AIRWAY DISEASE	5R01 HD06819-05	95,813
MESCHIA, GIACOMO	PHYSIOLOGICAL STUDY OF THE PLACENTA	5R01 HD01866-11	49,814
MESCHIA, GIACOMO	PRODUCTION AND EXCRETION OF UREA IN PRENATAL LIFE	5R01 HD05111-06	53,312
MOGIENICKI, ROBERT P.	A CARDIAC ARREST AND RESUSCITATION SCORING SYSTEM	1R01 HL18131-01	28,407
MOLINOFF, PERRY B.	DOPAMINE-BETA-HYDROXYLASE & NOREPINEPHRINE SYNTHESIS	5R01 NS10206-04	39,110
MOORE, GEORGE E.	TUMOR ALKYLATION WITH ALPHA-BETA-UNSATURATED COMPOUNDS	5R01 CA17835-02	39,231
MOORE, GEORGE E.	IMMUNOTHERAPY OF CANCER PATIENTS WITH METHACRYLATES	1R01 CA18754-01	48,757
MOORHEAD, JOHN W.	INTERACTION OF T-CELLS IN IMMUNITY AND TOLERANCE	1R01 AI12993-01	29,494
MURPHY, ROBERT C.	STRUCTURE DETERMINATION OF PHOSPHOLIPIDS	5R01 GM19897-02	27,864
NAKANE, PAUL K.	ENZYME-LABELED ANTIBODIES FOR IMMUNOHISTOCHEMISTRY	5R01 AI09109-08	48,091
NAKANE, PAUL K.	ENZYME-LABELED ANTIBODIES FOR IMMUNOHISTOCHEMISTRY	5R01 AI09109-09	49,954
NEVILLE, MARGARET C.	MATHEMATICAL MODELS OF MEMBRANE PROCESSES	3R01 AM15807-03S1	4,874
NEVILLE, MARGARET C.	MECHANISMS IN NUTRIENT TRANSPORT INTO CELLS	2R01 AM15807-04	50,428
NEVILLE, MARGARET C.	NUTRIENT UPTAKE IN NORMAL AND TUMOROUS MAMMARY GLAND	1R01 CA19389-01	40,211
O'BRIEN, DONOUGH	CENTER GRANT FOR RESEARCH IN MENTAL RETARDATION	5P30 HD04024-08	143,558
O'BRIEN, DONOUGH	BIOCHEMICAL, GENETIC AND OTHER STUDIES IN RETARDATION	5P01 HD08315-02	295,810
PABST, MICHAEL J.	BIOSYNTHESIS OF LEVAN BY ACTINOMYCES VISCOSUS	5R23 DE04239-02	10,000
PANNBACKER, RICHARD G.	CYCLIC NUCLEOTIDE FUNCTION IN RETINAL PHOTORECEPTORS	5R01 EY01171-04	31,367
PATERSON, CHRISTOPHER A.	REGULATION OF LENS CATION BALANCE AND DISTRIBUTION	5R01 EY00506-08	57,400
PATERSON, DAVID	GENE EXPRESSION IN SOMATIC CELLS IN THE AGING PROCESS	5R01 AG00029-02	26,582
PERKINS, JOHN P.	THE REGULATION OF CYCLIC AMP LEVELS IN BRAIN	5R01 NS10233-08	53,039
PETTUOHI, DAVID E.	ORGANIZATION OF DNA CONFORMATION IN CHROMOSOMES	5R01 GM18243-06	54,108
PETTY, THOMAS L.	STUDIES OF NORMAL AND ABNORMAL HUMAN SURFACTANT	5R01 HL17444-02	36,449
PETTY, THOMAS L.	STUDIES OF NORMAL AND ABNORMAL HUMAN SURFACTANT	5R01 HL17444-03	38,977
PIERCE, G BARRY	STRUCTURE, FUNCTION, AND PATHOLOGY OF BASEMENT MEMBRANE	5R01 AM15663-05	83,177
PIERCE, G BARRY	PROGRAM IN DEVELOPMENTAL BIOLOGY OF CANCER	5P01 CA15823-02	290,286
PRASAD, KEDAR N.	CONTROL MECHANISMS OF NEUROBLASTOMA CELLS IN VITRO	5R01 NS09230-06	51,355
PUCK, THEODORE T.	GENETIC BIOCHEMICAL STUDY ON SOMATIC CELLS AND CANCER	5R01 CA15794-02	52,321
PUCK, THEODORE T.	SOMATIC CELL GENETICS IN CANCER	1P01 CA20810-01	274,545
PUCK, THEODORE T.	THE CELL BIOLOGY OF DEVELOPMENTAL ANOMALIES	5P01 HD02080-11	181,892
REEVE, E BASIL	STUDIES ON PSEUDOXANTHOMA ELASTICUM	5R01 AM17760-02	56,873
REEVE, E BASIL	STUDIES ON PSEUDOXANTHOMA ELASTICUM	5R01 AM17760-03	66,299
REEVE, E BASIL	MECHANISMS REGULATING PLASMA PROTEINS AND SOLUTES	5R01 HL02262-21	71,202
REEVES, JOHN T.	STUDY OF EFFECTS OF DIABETES REACTIVITY	1R01 HL20429-01	43,328
REISS, OSCAR K.	PULMONARY PRESSOR SUBSTANCES FROM AMNIOTIC FLUID	5R01 HL17518-02	42,998
REISS, OSCAR K.	PULMONARY PRESSOR SUBSTANCES FROM AMNIOTIC FLUID	5R01 HL17518-03	47,318
REUSCH, VICTOR M, JR	BIOSYNTHESIS OF SURFACE POLYMERS BY ORAL ACTINOMYCES	1R23 DE04282-01	10,000
ROBINSON, WILLIAM A.	LEUKEMIA AND HUMORAL REGULATORS OF WBC PRODUCTION	5R01 CA11305-08	55,914
ROPER, STEPHEN D.	SYNAPTIC TRANSMISSION IN AUTONOMIC GANGLION CELLS	5R01 NS11505-03	23,004
RUTHERFORD, R BRUCE	MACROPHAGE AND FIBROBLAST PROLIFERATION IN VITRO	1R23 DE04539-01	9,900
SADLER, JOHN R.	THE LACTOSE REPRESSOR-OPERATOR INTERACTION	5R01 GM22297-02	45,056
SANDO, ISAMU	HISTOPATHOLOGY OF TEMPORAL BONES	5R01 NS09293-05	43,692
SAUERBIER, WALTER	A METHOD FOR DETERMINING UNITS OF TRANSCRIPTION	5R01 GM20418-03	41,988
SCARBOROUGH, GENE A.	STRUCTURE AND FUNCTION OF NEUROSPORA CRASSA MEMBRANES	5R01 GM19971-06	24,405
SCHALCH, DON S.	ROLE OF SOMATOMEDIN IN GROWTH AND DIABETES MELLITUS	5R01 AM18617-02	60,884
SCHRIER, ROBERT W.	SYSTEMIC HEMODYNAMICS AND RENAL WATER EXCRETION	5R01 HL15629-04	149,453
SCHWARZ, MARVIN I.	ETIOLOGIC FACTORS IN CRYPTOGENIC FIBROSING ALVEOLITIS	1R01 HL19108-01	26,635
SEEDS, NICHOLAS W.	IN VITRO BIOCHEMICAL DIFFERENTIATION OF NERVE CELLS	5R01 NS09818-04	21,815
SEEDS, NICHOLAS W.	IN VITRO BIOCHEMICAL DIFFERENTIATION OF NERVE CELLS	2R01 NS09818-05	30,555
SEEDS, NICHOLAS W.	GTP AND TUBULIN STRUCTURE	5R01 NS10709-03	29,568
SIMON, FRANCIS R.	LIVER MEMBRANE BINDING AND TURNOVER IN CHOLESTASIS	5R01 AM15851-05	53,763
STARZL, THOMAS E.	EFFECTS OF ORTHOTOPIC LIVER TRANSPLANTATION	5R01 AM07772-13	123,095
STARZL, THOMAS E.	HEPATOTROPIC FACTORS IN SPLANCHNIC VENOUS BLOOD	5R01 AM17260-08	68,346
STEELE, PETER	PLATELET SURVIVAL AND INHIBITORS IN THROMBOEMBOLISM	5R01 HL16523-03	35,849



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>COLORADO—Continued</b>			
STEWART, JOHN M.	EFFECT OF PEPTIDE HORMONES ON CIRCULATORY SYSTEM	3R01 HL12325-07S1	3,328
TAKEDA, YASUHIKO	DYNAMICS OF THROMBUS FORMATION AND DISSOLUTION	5R01 HL11686-08	45,314
TALMAGE, DAVID W.	CELL RECOGNITION AND INTERACTION IN THE IMMUNE RESPONSE	5R01 AI03047-18	69,881
TALMAGE, DAVID W.	SEMINAR IN NEUROBIOLOGY	1R13 GM23356-01	31,021
TRUMMEL, CLARENCE L.	RELATION OF INFLAMMATION TO BONE RESORPTION	7R01 DE04451-01	56,470
WARD, HARRY P.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00051-15	1,148,107
WARD, HARRY P.	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	5M01 RR00069-14	426,033
WEINER, NORMAN	SYNTHESIS, STORAGE AND RELEASE OF CATECHOLAMINES	2R01 NS07927-09	120,090
WEINER, NORMAN	BASAL GANGLIA DISORDERS AND NEUROTRANSMITTER FUNCTION	5P01 NS09199-06	185,238
WEINER, NORMAN	BASAL GANGLIA DISORDERS AND NEUROTRANSMITTER FUNCTION	2P01 NS09199-07	195,190
WENGER, DAVID A.	B-GALACTOSIDASE ACTIVITY RELATED TO MENTAL RETARDATION	5R01 HD07773-03	32,216
WENGER, DAVID A.	SUBSTRATE SPECIFICITY OF HUMAN B-GALACTOSIDASES	2R01 NS10698-02	32,132
WESTON, WILLIAM L.	MONOCYTE-MACROPHAGE FUNCTION IN MYCOSIS FUNGOIDES	1R01 AI13171-01	17,432
WHITLOCK, DAVID G.	PATHWAYS SUBSERVING PROPRIOCEPTION	5R01 NS08453-08	79,179
WICKELGREN, WARREN O.	ORGANIZATION OF THE NERVOUS SYSTEM	5R01 NS09661-07	41,247
WICKS, WESLEY D.	REGULATION OF HEPATOMA ENZYME SYNTHESIS BY CYCLIC AMP	2R01 AM16753-05	56,082
WICKS, WESLEY D.	CAMP ANALOGS AS GROWTH REGULATORS IN HEPATOMA CELLS	5R01 CA15687-03	37,761
WOOD, RAYMOND P.	INNER EAR DYSFUNCTION IN CHRONIC RENAL DISEASE	5R01 AM15772-05	42,703
ORGANIZATION TOTAL	141	10,668,742	
<b>UNIVERSITY OF DENVER ZIP CODE 80210</b>			
EATON, GARETH R.	INTERACTION OF SPIN LABELS WITH TRANSITION METALS	5R01 GM21156-03	53,423
HAITH, MARSHALL M.	DEVELOPMENTAL STUDIES OF SHORT-TERM MEMORY	5R01 HD07232-03	61,719
HARTER, SUSAN	THE DEVELOPMENT OF MOTIVE HIERARCHIES IN CHILDREN	1R01 HD09613-01	60,041
KEY, WILLIAM H.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07138-05	33,160
RINARD, GEORGE A.	OCULAR CONTROL SYSTEMS FOR ORTHOTICS	5R01 AM10763-09	94,182
WICKSTROM, ERIC	OLIGONUCLEOTIDE BINDING SPECIFICITY OF E. COLI IF3	1R01 GM23248-01	33,637
YORK, SHELTON S.	CHANGES IN LAC REPRESSOR STRUCTURE DURING DNA BINDING	2R01 GM20561-04	69,228
ORGANIZATION TOTAL	7	405,390	
<b>FORT COLLINS</b>			
<b>COLORADO STATE UNIVERSITY ZIP CODE 80521</b>			
ABEL, JOHN H. JR.	COMPARTMENTALIZATION OF LUTEAL CELL FUNCTION	1R01 HD10327-01	102,555
AZARI, PARVIZ	BIOCHEMICAL INVESTIGATION OF A HEREDITARY CATARACT	5R01 EY01065-03	51,061
BAMBURG, JAMES R.	REGULATION AND FUNCTION OF PROTEINS IN GROWING NERVES	5R01 NS10429-05	53,912
BEDFORD, JOEL S.	DOSE AND TIME FACTORS IN CELLULAR RADIOSENSITIVITY	5R01 CA18023-02	97,719
BLAIR, CAROL D.	REPLICATION OF JAPANESE ENCEPHALITIS VIRUS	5R01 AI12660-02	48,985
BONILLA, CARLOS A.	CARDIOLOGY OF MDP-INDUCED LEFT VENTRICULAR FAILURE	2R01 HL16233-03	79,868
CAUGHEY, WINSLOW S.	ISOLATION, STRUCTURE, AND MODEL REACTIONS OF HEME A	3R01 HL15980-03S1	35,575
CAUGHEY, WINSLOW S.	REACTIONS OF HEMEPROTEINS AND OXYGEN	2R01 HL15980-04	131,710
DE BRUIN, KENNETH E.	POTENTIAL ANTITUMOR AGENTS AND ESTERASE INHIBITORS	2R01 CA14477-04	29,669
DE BRUIN, KENNETH E.	STEREOSPECIFICITY IN ANTITUMOR ACTIVITY	1R01 CA19908-01	29,789
DEWEY, WILLIAM C.	CELLULAR RESPONSES TO IRRADIATION	5R01 CA08618-11	140,836
FAHRNEY, DAVID E.	ARGININE DEIMINASE: A MECHANISTIC ANALYSIS	5R01 GM21364-03	43,277
GILLETTE, EDWARD L.	RADIATION REPAIR OF NORMAL MAMMALIAN TISSUES	2R01 CA13899-04	85,029
GILLETTE, EDWARD L.	RADIATION REPAIR OF NORMAL MAMMALIAN TISSUES	5R01 CA13899-05	104,949
GILLETTE, EDWARD L.	COMPARATIVE ONCOLOGY RESEARCH PROGRAM	5P01 CA15820-03	135,528
GILLETTE, EDWARD L.	TUMOR & NORMAL TISSUE RESPONSE TO HEAT AND RADIATION	5R01 CA17831-02	61,534
GORTHY, WILLIS C.	MORPHOLOGICAL AND HISTOCHEMICAL STUDIES OF THE LENS	5R01 EY00378-08	71,476
HAPP, GEORGE M.	EXOCRINE GLANDS: MODELS OF DIFFERENTIATIVE TRANSITIONS	5R01 GM21711-02	32,541
HEGEDUS, LOUIS S.	ANTITUMOR AGENTS - NEW COMPOUNDS AND NEW SYNTHESSES	5R01 CA15529-03	19,119
HEGEDUS, LOUIS S.	ORGANOPALLADIUM ANTITUMOR AGENTS	1R01 CA18680-01	35,326
HILL, GEORGE C.	THE FUNCTION OF MITOCHONDRIA IN TRYPA NOSOMES	5R01 AI11622-03	17,116
JORDAN, JOHN P.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07127-08	46,620
JOYCE, BARBARA K.	CARCINOGENIC IMPLICATIONS OF ASPERGILLOTOTOXICOSIS	5R01 ES00585-06	49,251
KOZLOWSKI, GERALD P.	CORRELATED IMMUNOTECHNIQUES FOR STUDY OF GN-RH & ADH	5R01 HD08867-02	77,211
LAVALLEE, DAVID K.	PORPHYRIN ANALYSIS BY PHOSPHORESCENCE SPECTROSCOPY	5R01 ES00987-02	40,908
LETT, JOHN T.	AGING, RADIATION & DNA DAMAGE IN NONDIVIDING TISSUE	5R01 AG00005-04	71,715

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>COLORADO—Continued</b>			
LETT, JOHN T.....	REPAIR OF RADIATION DAMAGE IN CELLULAR DNA.....	2R01 CA10714-09	91,578
LUMB, WILLIAM V.....	SYNERGISTIC TREATMENTS OF SPINAL CORD TRAUMA.....	1R01 NS13121-01	57,849
MATHIAS, MELVIN M.....	DIETARY FAT COMPOSITION AND PROSTAGLANDIN SYNTHESIS.....	1R01 HL18239-01A1	35,789
MEYERS, ALBERT I.....	SYNTHESIS OF MAYTANSINE AND ITS DERIVATIVES.....	5R01 CA16051-02	67,185
MILLER, LARRY L.....	ELECTROCHEMICAL MEDICINAL SYNTHESIS.....	5R01 GM19234-05	58,748
NATUSCH, DAVID F.....	INTERACTIONS OF TOXIC METAL SPECIES WITH BIOMOLECULES.....	7R01 ES01472-01	54,684
NETT, TORRANCE M.....	THE PHYSIOLOGICAL ROLE OF GN-RH.....	5R01 HD07841-02	45,324
NORNES, HOWARD O.....	DEVELOPMENT SPINAL CORD-PATTERNING AND CELL INTERACTIONS.....	5R01 NS12020-02	37,622
PAULE, MARVIN R.....	GENE SELECTION BY MULTIPLE EUKARYOTIC RNA POLYMERASES.....	1R01 GM22580-01	56,394
PAUTLER, EUGENE L.....	TRANSRETINAL POTENTIAL AND SUGAR TRANSPORT IN MAMMALS.....	1R01 EY01643-01	39,386
RALPH, CHARLES L.....	FUNCTION OF THE PINEAL COMPLEX.....	5R01 NS12257-03	69,064
REEVES, FONTAINE, JR.....	COMPARATIVE ISOZYME PATTERNS IN DERMATOPHYTES.....	5R01 AI10739-02	13,248
REEVES, FONTAINE, JR.....	COMPARATIVE ISOZYME PATTERNS IN DERMATOPHYTES.....	5R01 AI10739-03	14,589
SLATTER, DOUGLAS H.....	EXPERIMENTAL OCULAR ATHEROSCLEROSIS.....	5R23 EY01450-02	7,500
STERMITZ, FRANK R.....	ANTITUMOR COMPOUNDS FROM NORTH AMERICAN PLANTS.....	1R01 CA19243-01	27,250
STONE, HELEN B.....	RADIATION AND HYPOXIC CELL SENSITIZERS.....	1R01 CA20344-01	74,259
STORZ, JOHANNES.....	PATHOGENESIS OF CHLAMYDIAL POLYARTHRITIS-ENTERITIS.....	5R01 AI08420-09	59,623
SUTHERLAND, THOMAS M.....	DEVELOPMENT OF ADIPOSE CELLS AND TISSUE IN OBESITY.....	1R01 AM18275-01A1	50,878
TIETZ, WILLIAM J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05458-14	96,043
TU, ANTHONY T.....	HEMORRHAGIC AND NECROTIC TOXINS IN SNAKE VENOMS.....	5R01 GM15591-09	22,095
TU, ANTHONY T.....	SEA SNAKE VENOMS AND TOXINS.....	2R01 GM19172-05	62,712
WILL, DONALD H.....	ANIMAL MODELS OF HYPOXIC PULMONARY HYPERTENSION.....	5R01 HL18191-02	51,493
WOODY, ROBERT W.....	OPTICAL PROPERTIES OF BIOLOGICAL MACROMOLECULES.....	7R01 GM22994-01	64,455
WOODY, ROBERT W.....	SPECTROSCOPIC STUDIES OF RNA POLYMERASE MECHANISM.....	1R01 GM23697-01	44,147
ORGANIZATION TOTAL	50	2,895,194	
<b>SPIVAK</b>			
<b>AMERICAN MEDICAL CENTER AT DENVER ZIP CODE 80214</b>			
HUSEBY, ROBERT A.....	STUDIES OF SOME ENDOCRINE ASPECTS OF NEOPLASIA.....	5R01 CA05191-17	65,444
JACOBS, BARBARA B.....	HOST-ALLOGRAFT CHANGES INDUCED BY EXPLANTED TUMORS.....	5R01 CA12075-06	29,027
PARKS, RICHARD C.....	IMMUNOLOGICAL MECHANISMS OF ANTIGENIC TUMOR 'ESCAPE'.....	1R01 CA18923-01	23,412
ORGANIZATION TOTAL	3	117,883	
STATE TOTAL	293	19,536,468	
<b>CONNECTICUT</b>			
<b>DANBURY</b>			
<b>WESTERN CONNECTICUT STATE COLLEGE ZIP CODE 06810</b>			
ADLER, ALAN D.....	RARE EARTH PORPHYRIN MOLECULAR BIOLOGICAL PROBES.....	1R01 HL19005-01	15,800
ORGANIZATION TOTAL	1	15,800	
<b>FAIRFIELD</b>			
<b>FAIRFIELD UNIVERSITY ZIP CODE 06430</b>			
MACDONALD, JOHN C.....	PATTERN RECOGNITION IN LABORATORY MEDICINE.....	5R01 GM21270-02	6,184
ORGANIZATION TOTAL	1	6,184	
<b>FARMINGTON</b>			
<b>UNIVERSITY OF CONNECTICUT HEALTH CENTER ZIP CODE 06032</b>			
BECKER, ELMER L.....	IMMUNOLOGICALLY ACTIVATED ENZYME SYSTEMS OF CELLS.....	2R01 AI09648-06	99,040
BECKER, ELMER L.....	IMMUNOLOGICALLY ACTIVATED ENZYME SYSTEMS OF CELLS.....	5R01 AI09648-07	107,456
BERLIN, RICHARD D.....	DYNAMIC INTERACTIONS OF MEMBRANES, ACTION & MICROTUBULES.....	1R01 GM22621-01	72,369
BRONNER, FELIX.....	MINERAL METABOLISM IN POSTMENOPAUSAL OSTEOPOROSIS.....	2R01 AM14251-05A2	76,356

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
BURSTONE, CHARLES J.	PREDICTION OF TOOTH DISPLACEMENT	3R01 DE03545-03S1	40,547
BURSTONE, CHARLES J.	PREDICTION OF TOOTH DISPLACEMENT	2R01 DE03545-04	155,628
BURSTONE, CHARLES J.	FORCE SYSTEMS FROM ORTHODONTIC APPLIANCES	5R01 DE03953-03	137,833
CATALANOTTO, FRANK A.	NEUROSENSORY DEFICITS IN CRANIOFACIAL ANOMALIES	5R23 DE04130-02	11,438
CHAN, LEE-NIEN L.	CHANGES IN MEMBRANE PROPERTIES DURING ERYTHROPOIESIS	1R01 HL19068-01	38,112
CHAN, TEH-SHENG	SOMATIC CELL GENETIC ANALYSIS OF MEMBRANE BIOGENESIS	1R01 CA18405-01	60,752
CHAN, TEH-SHENG	SOMATIC CELL HYBRIDS FOR STUDIES OF HUMAN DISEASES	5R01 GM21326-03	45,332
CHANG, LUCY M.	FUNCTION OF DNA POLYMERASES IN NORMAL AND CANCER CELLS	9R01 CA17770-04	61,986
CHANG, LUCY M.	FUNCTION OF DNA POLYMERASES IN NORMAL AND CANCER CELLS	5R01 CA17770-05	66,336
CINTI, DOMINICK L.	ROLE OF THE MITOCHONDRIA IN HEPATIC DRUG METABOLISM	5R01 AM16678-03	31,489
CINTI, DOMINICK L.	ARYL HYDROCARBON HYDROXYLASE INDUCTION IN RAT KIDNEY	5R01 CA15897-03	31,575
COHEN, STANLEY	COMPLEMENT AND CELLULAR ACTIVATION	5R01 AI12477-03	47,470
COHEN, STANLEY	ANTIBODIES TO LYMPHOCYTE-DERIVED MEDIATORS	1R01 AI13258-01	51,480
COOKE, PETER H.	CONTRACTILE MECHANISM OF VERTEBRATE SMOOTH MUSCLE	7R01 GM23718-01	29,901
COOPERSTEIN, SHERWIN J.	PHYSIOLOGY OF PANCREATIC ISLETS AND ACTION OF ALLOXAN	5R01 AM09059-13	59,263
CUTLER, LESLIE S.	EPITHELIAL-MESENCHYMAL CONTACTS IN CYTODIFFERENTIATION	5R23 DE03933-03	9,888
DAMJANOV, IVAN	EMBRYO DERIVED TERATOCARCINOMA	1R01 CA18099-01	51,688
DAVIDOFF, FRANK F.	EFFECT OF GUANIDINE DERIVATIVES ON BIOLOGICAL SYSTEMS	5R01 AM18087-03	62,574
DEUTSCHER, MURRAY P.	ENZYMOLOGY AND CONTROL OF AMINO ACID ACTIVATION	5R01 GM16317-08	75,118
DEUTSCHER, MURRAY P.	ENZYMOLOGY AND CONTROL OF AMINO ACID ACTIVATION	5R01 GM16317-09	82,077
FEINSTEIN, MAURICE B.	STUDIES ON MECHANISM OF ACTION OF ANESTHETICS	2R01 GM17536-07	53,595
FEINSTEIN, MAURICE B.	CYCLIC NUCLEOTIDES AND CALCIUM IN PLATELETS	1R01 HL18937-01	34,990
FREEDMAN, MICHAEL L.	DETERMINANTS OF VIRULENCE IN STREPTOCOCCUS MUTANS	5R01 DE03758-02	74,349
GAY, THOMAS	ELECTROMYOGRAPHIC-CINEFLUOROGRAPHIC STUDIES OF SPEECH	2R01 NS10424-02	38,753
GLASEL, JAY A.	COMPUTER ASSISTED MOLECULAR CONFORMATION CALCULATIONS	5R01 GM19384-03	19,676
GLASEL, JAY A.	SUPPORT FOR NMR SPECTROSCOPY FACILITY	5P41 RR00639-03	61,663
GOLDSCHNEIDER, IRVING	DEVELOPMENT OF IMMUNOLOGICALLY COMPETENT LYMPHOCYTES	5R01 AI09649-07	49,304
GRASSO, JOSEPH A.	STUDIES IN RBC DIFFERENTIATION	7R01 AM19167-01	61,593
GRASSO, JOSEPH A.	STUDIES IN RBC DIFFERENTIATION	5R01 AM19167-02	44,401
HOLLAND, MICHAEL J.	CONTROL OF TRANSCRIPTION OF ISOLATED EUKARYOTIC GENES	1R01 GM23109-01	51,850
HOYER, LEON W.	STUDIES OF ANTIBODIES TO ANTIHEMOPHILIC FACTOR	5R01 HL16626-03	67,848
HOYER, LEON W.	STUDIES OF ANTIHEMOPHILIC FACTOR	5R01 HL16872-02	105,980
JUNGAS, ROBERT L.	ACTION OF INSULIN ON ENZYMES OF ADIPOSE TISSUE	5R01 AM18092-03	41,632
KALT, MARVIN R.	STUDIES ON VERTEBRATE SEX CELL DEVELOPMENT	5R01 HD08268-02	32,036
KEGELES, S STEPHEN	CHILDREN'S ACCEPTANCE OF CARRIES PREVENTIVE PROCEDURES	5R01 DE03868-02	98,434
LINDQUIST, RICHARD R.	REGULATION OF GRAFT VERSUS HOST REACTIONS	5R01 AI11715-03	46,704
LOE, HARALD	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05677-08	90,747
LURIE, ALAN G.	LOW-LEVEL IRRADIATION-MODIFICATION OF CARCINOGENESIS	5R23 DE03996-02	10,023
MASSEY, ROBERT U.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05678-08	144,528
MIYAMOTO, MICHAEL D.	PHARMACOLOGY OF QUANTAL RELEASE PARAMETERS	5R01 NS12270-02	24,868
NANDA, RAVINDRA	ANTERIOR DISPLACEMENT OF MAXILLA BY CONTROLLED FORCES	5R23 DE03998-02	13,354
NIKI, KLAUS	BLOOD VESSEL RESPONSE IN EARLY PERIODONTAL DISEASE	5R01 DE04389-02	51,216
O'ROURKE, J.	UREAL BLOOD FLOW AND METABOLISM	3R01 EY00123-06S1	10,773
OLIVER, JANET M.	CHEDIAK-HIGASHI AND CANCER CELLS WITH SIMILAR DEFECTS	1R01 CA18564-01	56,905
OLIVER, JANET M.	ACTION OF CARBAMATE HERBICIDES IN MAMMALIAN CELLS	5R01 ES01106-02	27,327
OSBORN, MARY J.	STUDIES ON BIOSYNTHESIS OF LIPOPOLYSACCHARIDES	5R01 AI08650-08	134,586
OZOLS, JURIS	CYTOCHROMES IN NORMAL AND ALTERED HEPATOCYTE MEMBRANES	5R01 GM20520-03	32,118
PAPPANO, ACHILLES J.	PHARMACOLOGY OF DEVELOPING CARDIAC TISSUES	5R01 HL13339-07	41,811
PATTERSON, JOHN W.	EXPERIMENTAL CATARACTS	5R01 EY00902-12	32,081
POOLE, ANDREW E.	SALIVARY PEROXIDASE AND THE GENETICS OF ORAL DISEASE	5R23 DE03945-03	12,180
POYTON, ROBERT O.	BIOSYNTHESIS AND ASSEMBLY OF CYTOCHROME C OXIDASE	5R01 GM21800-02	35,906
RAISZ, LAWRENCE G.	FACTORS INFLUENCING BONE METABOLISM	5R01 AM18063-03	121,274
RODAN, GIDEON A.	PARATHYROID BIOASSAY BASED ON CAMP IN CELL SUSPENSION	5R01 AM17848-02	51,081
RODAN, GIDEON A.	MECHANICAL AND ELECTRICAL EFFECTS ON OSTEOGENESIS	1R01 DE04327-01	62,540
ROSSOMANDO, EDWARD F.	CELLULAR MIGRATION AND FACIAL DEVELOPMENT	5R01 DE03715-02	15,584
ROTHFIELD, LAWRENCE I.	STUDIES OF GLYCOSYL TRANSFERASES	5R01 AM13407-08	163,354
ROTHFIELD, LAWRENCE I.	STUDIES OF GLYCOSYL TRANSFERASES	5R01 AM13407-09	167,924
ROTHFIELD, LAWRENCE I.	ASSEMBLY OF NORMAL AND ONCOGENIC ENVELOPED VIRUSES	1R01 CA21037-01	57,044
ROTHFIELD, NAOMI F.	E-B VIRUS ANTIBODIES IN CONNECTIVE TISSUE DISEASES	5R01 AM16029-03	44,557
ROTHFIELD, NAOMI F.	THE ROLE OF PROPERDIN IN CONNECTIVE TISSUE DISEASES	2R01 AM16576-04A1	74,879



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
SETLOW, PETER.....	DEGRADATION REACTIONS IN SPORE GERMINATION.....	2R01 GM19698-04	49,399
SETLOW, PETER.....	DEGRADATION REACTIONS IN SPORE GERMINATION.....	5R01 GM19698-05	54,567
SHA'AFI, RAMADAN I.....	STUDIES OF MEMBRANE STRUCTURE AND FUNCTION.....	5R01 GM20268-02	31,426
SHEETZ, MICHAEL P.....	ACTIN BINDING PROTEIN OF HUMAN ERYTHROCYTE MEMBRANES.....	5R01 HL18317-02	44,125
SHEINK, THOMAS E.....	STRUCTURE AND FUNCTION OF DNA TUMOR VIRUS GENOMES.....	1R01 CA19151-01	56,505
SHERLINE, PETER.....	MICROTUBULES AND THE MECHANISM OF SECRETION.....	1R01 GM22497-01	55,450
SPENCER, RICHARD P.....	PROGRAM IN RADIONUCLIDE STUDIES OF TUMORS AND GROWTH.....	3R01 CA17802-01S1	28,390
SPENCER, RICHARD P.....	PROGRAM IN RADIONUCLIDE STUDIES OF TUMORS AND GROWTH.....	2R01 CA17802-02	217,080
SPITZNAGLE, LARRY A.....	DEVELOPMENT OF TUMOR AND ORGAN IMAGING AGENTS.....	7R01 GM22973-01	34,288
STRITTMATTER, PHILIPP.....	STUDY OF STRUCTURE AND FUNCTION OF MICROSOAMAL MEMBRANES.....	5R01 GM15924-09	112,456
SUNDERMAN, F WILLIAM, JR.....	NICKEL CARCINOGENESIS.....	1R01 ES01337-01	80,174
TANZER, MARVIN L.....	STRUCTURE, FUNCTION, AND PROPERTIES OF COLLAGEN.....	5R01 AM12683-08	65,764
TANZER, MARVIN L.....	BIOLOGY AND CHEMISTRY OF PROCOLLAGEN IN CELL CULTURE.....	5R01 AM17220-03	47,921
TANZER, MARVIN L.....	BIOLOGY AND CHEMISTRY OF PROCOLLAGEN IN CELL CULTURE.....	2R01 AM17220-04	49,802
TIBBETTS, CLARK J.....	ADENOVIRUS GENOME EXPRESSION/PHYSICAL MAPPING STUDIES.....	5R01 CA17130-02	38,982
VENHAM, LARRY L.....	CHILDREN'S RESPONSE TO DENTAL TREATMENT.....	5R23 DE03891-02	15,791
VOLLE, ROBERT L.....	STUDIES ON SYMPATHETIC GANGLIA FOLLOWING CONDITIONING.....	5R01 NS07540-09	30,049
VOLLE, ROBERT L.....	STUDIES ON SYMPATHETIC GANGLIA FOLLOWING CONDITIONING.....	5R01 NS07540-10	30,440
WARD, PETER A.....	LEUKOCYTE CHEMOTAXIS.....	2R01 AI09651-06	63,366
WARD, PETER A.....	CHEMOTACTIC FACTOR INACTIVATOR AND PULMONARY EMPHYSEMA.....	5R01 AI11526-03	46,527
WARD, PETER A.....	IMMUNOPATHOLOGY AND CLINICAL IMMUNOLOGY.....	5P01 AI12225-02	235,199
WARD, PETER A.....	REGULATION OF LEUKOTACTIC MEDIATORS BY LUNG.....	1R01 AI13910-01	72,532
WARD, PETER A.....	TUMOR CELL CHEMOTAXIS AND METASTATIC DISEASE.....	5R01 CA17665-02	70,623
WEINSTEIN, SAM.....	EXTENSIBILITY CHARACTERISTICS—HUMAN BUCCINATOR MUSCLE.....	1R01 DE04047-01A1	42,047
WU, HENRY C.....	BIOCHEMISTRY OF CELL DIVISION IN BACTERIA.....	5R01 CA11371-08	72,895
YOSHIDA, TAKESHI.....	MIGRATION INHIBITION OF TUMOR CELLS BY LYMPHOKINES.....	1R01 CA19286-01	45,152
YOSHIDA, TAKESHI.....	LYMPHOKINES IN PULMONARY GRANULOMAS.....	1R01 HL19711-01	53,080
ZURIER, ROBERT B.....	BIOLOGICAL EFFECTS OF LYSOSOMAL ENZYME RELEASE.....	5R01 AM17309-03	43,860
ORGANIZATION TOTAL	92	5,653,066	
<b>HAMDEN</b>			
<b>QUINNIPAC COLLEGE      ZIP CODE 06518</b>			
RITCHIE, BRENDA B.....	BIOPHYSICS OF MUSCULAR EXERCISE.....	2R01 NS09960-04A1	54,981
ORGANIZATION TOTAL	1	54,981	
<b>MIDDLETOWN</b>			
<b>WESLEYAN UNIVERSITY      ZIP CODE 06457</b>			
ALLEWELL, NORMA M.....	THERMODYNAMICS OF MACROMOLECULAR INTERACTIONS.....	5R01 AM17335-04	42,889
BURFORD, M GILBERT.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07107-09	22,771
DONADY, JOHN J.....	GENETIC CONTROL OF CELL DIFFERENTIATION.....	5R01 HD08286-02	36,689
HAAKE, PAUL C.....	PHOSPHORYLATION IN METABOLIC PROCESSES.....	5R01 AM12743-09	38,444
KIEFER, BARRY I.....	DEVELOPMENTAL GENETICS OF SPERMATID DIFFERENTIATION.....	2R01 GM19130-04	64,271
KOHLER, BRYAN E.....	SPECTROSCOPIC STUDIES OF THE VISUAL PIGMENTS.....	1R01 EY01733-01	79,374
LUKENS, LEWIS N.....	COLLAGEN SYNTHESIS AND ITS REGULATION.....	5R01 AM16162-05	80,393
LYNCH, CAROL B.....	GENETIC ANALYSIS OF BEHAVIORAL THERMOREGULATION.....	5R01 GM21993-02	43,736
PRATT, REX F.....	BETA-LACTAMASES AND BACTERIAL PENICILLIN RESISTANCE.....	1R01 AI12942-01	43,864
WOLFE, JASON S.....	REGULATION OF GENE EXPRESSION IN SYNCHRONIZED CELLS.....	2R01 GM18014-06	65,851
ORGANIZATION TOTAL	10	518,282	
<b>NEW HAVEN</b>			
<b>HASKINS LABORATORIES      ZIP CODE 06510</b>			
COOPER, FRANKLIN S.....	RESEARCH PROGRAM ON DYNAMICS OF SPEECH ARTICULATION.....	5P01 DE01774-15	222,929
HUTNER, SEYMOUR H.....	BIOPTERIN ASSAY IN CHROMAFFIN AND NEURAL TISSUE.....	5R01 AM15137-04	41,232
LIBERMAN, ALVIN M.....	NATURE AND ACQUISITION OF THE SPEECH CODE AND READING.....	2P01 HD01994-11	350,426
LIBERMAN, ALVIN M.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05596-12	47,121
ORGANIZATION TOTAL	4	661,708	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
<b>JOHN B. PIERCE FOUNDATION OF CONNECTICUT      ZIP CODE 06519</b>			
CAIN, WILLIAM S.	PERCEIVED INTENSITY OF ODORANTS AND IRRITANTS	5R01 ES00592-05	74,644
DU BOIS, ARTHUR B.	PERIPHERAL CIRCULATION AND FLUID BALANCE	5R01 HL17407-02	75,631
DU BOIS, ARTHUR B.	PERIPHERAL CIRCULATION AND FLUID BALANCE	5R01 HL17407-03	85,885
HARDY, JAMES D.	SINGLE UNIT ACTIVITY AND THERMOREGULATION	5R01 NS04655-14	50,276
HITCHCOCK, MARGARET	INTERACTION OF AIR POLLUTANTS WITH LIVER FUNCTION	5R01 ES00711-02	36,161
STITT, JOHN T.	TEMPERATURE REGULATION: ACTION OF PROSTAGLANDIN E1	5R01 NS11487-03	42,476
STOLWIJK, JAN A.	STUDY OF HUMAN RESPONSES TO THERMAL ENVIRONMENT	2P01 ES00354-09	183,729
STOLWIJK, JAN A.	PERIPHERAL VENOMOTOR CONTROL IN THERMAL STRESS	5R01 HL17732-02	53,425
STOLWIJK, JAN A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05692-07	57,702
ORGANIZATION TOTAL	9      659,929		
<b>YALE UNIVERSITY      ZIP CODE 06520</b>			
ADLERBERG, EDWARD A.	GENE TRANSFER IN CULTURED MAMMALIAN CELLS	5R01 GM19481-04	364,753
ALBERT, DANIEL M.	HISTOPATHOLOGIC STUDY OF PIGMENTED OCULAR TUMORS	5R01 EY00108-07	29,389
ALTMAN, SIDNEY	TRNA: STUDIES OF PRECURSORS, MUTANTS AND FUNCTION	5R01 GM19422-05	73,763
ARMITAGE, IAN W.	STUDY OF MACROMOLECULAR STRUCTURE AND FUNCTION BY NMR	1R01 AM18778-01	48,259
ASKENASE, PHILIP W.	IMMUNOLOGY OF CUTANEOUS BASOPHIL HYPERSENSITIVITY	5R01 AI12211-03	37,459
ATKINS, ELISHA	STUDIES IN THE PATHOGENESIS OF FEVER	5R01 AI01564-19	101,034
ATKINS, ELISHA	STUDIES IN THE PATHOGENESIS OF FEVER	5R01 AI01564-20	111,764
BARNNETT, RUSSELL J.	CELL BIOLOGY OF PLASMA MEMBRANES	5R01 AM03688-16	102,714
BARNNETT, RUSSELL J.	CELL BIOLOGY OF PLASMA MEMBRANES	5R01 AM03688-17	105,196
BAUE, ARTHUR E.	SURGICAL ASPECTS OF SHOCK AND HYPOXIA	7R01 HL19673-01	110,899
BERNARD, GARY D.	OPTICAL INFORMATION PROCESSING IN EYES	3R01 EY01140-03S1	22,606
BERNARD, GARY D.	OPTICAL INFORMATION PROCESSING IN EYES	2R01 EY01140-04	91,395
BERTINO, JOSEPH R.	MECHANISM OF ACTION OF FOLATE ANTAGONISTS	5R01 CA08010-12	105,973
BERTINO, JOSEPH R.	MECHANISM OF ACTION OF FOLATE ANTAGONISTS	5R01 CA08010-13	100,132
BERTINO, JOSEPH R.	CLINICAL PHARMACOLOGY AND CANCER CHEMOTHERAPY	2P01 CA08341-11	587,165
BIANCANI, PIERO	BIOPHYSICAL PRINCIPLES OF PERISTALTIC PHENOMENA	2R01 AM16021-05	90,328
BINDER, HENRY J.	INTESTINAL ELECTROLYTE TRANSPORT IN HEALTH AND DISEASE	5R01 AM14669-06	37,704
BINDER, HENRY J.	MECHANISM OF POTASSIUM TRANSPORT IN INTESTINAL TISSUE	1R01 AM18777-01	51,858
BITENSKY, MARK W.	MACROMOLECULAR REVERSIBLE INHIBITOR OF ADENYL CYCLASE	5R01 AM15016-06	53,206
BLACK, FRANCIS L.	MEASLES VIRUS RECOMBINATION AND REACTIVATION	5R01 AI00701-20	56,608
BLACK, FRANCIS L.	EPIDEMIOLOGIC RELATION OF MULTIPLE SCLEROSIS TO VIRUS	5R01 AI12123-03	42,809
BLOOMER, JOSEPH R.	PROTOPORPHYRIA: STUDY WITH CULTURED SKIN FIBROBLASTS	1R01 AM19009-01	54,101
BOCKELMAN, CHARLES K.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07015-11	151,288
BODEL, PHYLLIS T.	CAUSE OF FEVER IN MALIGNANT DISEASES	5R01 CA14655-03	87,978
BOOSS, JOHN	HOST DEFENSE IN MURINE CYTOMEGALOVIRUS INFECTION	7R01 AI13871-01	62,694
BOUHUYS, AREND	SUPPORT FOR CENTER FOR THE STUDY OF LUNG DISEASE	3P50 HL14179-05S2	436,807
BOULPAEP, EMILE L.	FUNCTIONAL STRUCTURE OF RENAL TUBULE	3R01 AM13844-06S1	9,730
BOULPAEP, EMILE L.	FUNCTIONAL STRUCTURE OF RENAL TUBULE	2R01 AM13844-07	79,783
BRAVERMAN, IRWIN M.	ROLE OF MICROCIRCULATION IN CUTANEOUS DISORDERS	5R01 AM15739-05	27,154
BREAKEYFIELD, XANDRA O.	DEVELOPMENTAL MECHANISMS IN ADRENERGIC SYNAPTOGENESIS	5R01 NS12105-02	70,123
CANELLAKIS, EVANGELO S.	NUCLEIC ACID SYNTHESIS	3R01 CA04823-16S1	17,412
CANELLAKIS, EVANGELO S.	THE USE OF DOUBLE INTERCALATORS AS ANTICANCER AGENTS	5R01 AI15317-03	26,885
CARTER, DAVID M.	SUSCEPTIBILITY OF CUTANEOUS CELLS TO DNA INJURY BY UV	5R01 CA12496-06	44,372
CASALS-ARIET, JORDI	SUPPORT FOR WORLD REFERENCE CENTER FOR ARBOVIRUSES	5R01 AI10984-05	61,132
CHANDLER, WILLIAM K.	ELECTRICAL AND CONTRACTILE PROPERTIES OF MUSCLE	2R01 NS07474-09	185,737
CHANDLER, WILLIAM K.	ELECTRICAL AND CONTRACTILE PROPERTIES OF MUSCLE	5R01 NS07474-10	178,861
COHEN, LAWRENCE B.	OPTICAL STUDIES OF NEURON ACTIVITY AND ORGANIZATION	5R01 NS08437-08	110,640
COHEN, MELVIN J.	PERIPHERAL AND CENTRAL STUDIES OF NEURONAL ORGANIZATION	5R01 NS08996-07	81,997
COHEN, MELVIN J.	PERIPHERAL AND CENTRAL STUDIES OF NEURONAL ORGANIZATION	5R01 NS08996-08	87,787
COLE, JACK W.	CANCER CENTER SUPPORT GRANT	5P30 CA16359-02	1,255,553
COLE, JACK W.	NATIONAL CANCER ACT OF 1971 - RETROSPECTIVE PERSPECTIVES	1R13 CA21616-01	6,512
COLEMAN, JOSEPH E.	METALLOENZYME SYNTHESIS, STRUCTURE AND FUNCTION	2R01 AM09070-12	63,816
COLEMAN, JOSEPH E.	STRUCTURE AND FUNCTION OF DNA BINDING PROTEINS	5R01 GM21919-02	41,119
COLLINS, WILLIAM F, JR.	A CENTER FOR ACUTE SPINAL CORD INJURY	5P50 NS10174-04	834,370
COLLINS, WILLIAM F, JR.	A CENTER FOR ACUTE SPINAL CORD INJURY	5P50 NS10174-05	927,086
CONE, ROBERT E.	MOLECULAR CHARACTERISTICS OF LYMPHOCYTE MEMBRANES	5R01 AI12577-02	40,513

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
CONN, HAROLD O.	DISTAL SPLENORENAL VS PORTAL SYSTEMIC ANASTOMOSIS	5R01 AM18897-02	37,960
COOPER, JACK R.	THE ROLE OF THIAMINE IN NERVOUS TISSUE	5R01 NS08666-07	55,795
COOPER, JACK R.	CHOLINERGIC NERVE ENDING PARTICLES	5R01 NS09836-05	51,332
CORNELIUS, EUGENE A.	STUDIES OF IMMUNOLOGICALLY INDUCED TUMORS	5R01 CA15500-03	83,696
CRONAN, JOHN E, JR	GENETIC APPROACHES TO REGULATION OF LIPID METABOLISM	5R01 AI10186-06	67,840
CRONAN, JOHN E, JR	PROTEIN-LIPID INTERACTION	1R01 GM22797-01	44,835
CROTHERS, DONALD M.	NEW APPROACHES TO CANCER CHEMOTHERAPY	5R01 CA15583-03	61,812
CROTHERS, DONALD M.	MACROMOLECULAR STRUCTURAL DYNAMICS	5R01 GM21966-02	42,795
DOANE, WINIFRED W.	GENETIC REGULATORY MECHANISM IN CELLULAR DIFFERENTIATION	2R01 GM18729-04	108,773
DONALDSON, ROBERT M, JR	BINDING AND TRANSPORT FUNCTIONS OF INTESTINAL MICROVILLI	2R01 AM17509-03	79,424
DONALDSON, ROBERT M, JR	BINDING AND TRANSPORT FUNCTIONS OF INTESTINAL MICROVILLI	5R01 AM17509-04	54,056
DOUGLAS, WILLIAM W	STIMULUS-SECRETION COUPLING: CHROMAFFIN AND OTHER CELLS	5R01 NS09137-07	88,586
DOWNING, S EVANS	CHEMOSENSITIVE SYSTEMS IN SUDDEN INFANT DEATH	2R01 HD07276-03	61,608
DOWNING, S EVANS	MYOCARDIAL PERFORMANCE AND METABOLISM IN THE NEWBORN	5R01 HL08659-12	93,378
DOWNING, S EVANS	RELATIONSHIP OF INSULIN TO CATECHOL CARDIOMYOPATHY	1R01 HL20401-01	80,482
DWYER, JOHN M.	CELLULAR IMMUNITY AND HUMAN DISEASE	5R01 AI11785-03	51,780
EBBERT, ARTHUR, JR.	GENERAL CLINICAL RESEARCH CENTERS - ADULT & CHILDREN	5M01 RR00125-13	1,060,199
EBBERT, ARTHUR, JR.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05358-15	261,305
EISENFELD, ARNOLD J	STUDY OF CONTRACEPTIVE RECEPTOR MECHANISMS	2R01 HD08280-03	91,857
EISENSTADT, JEROME M	CYTOPLASMIC INHERITANCE IN CULTURED MAMMALIAN CELLS	5R01 GM21873-02	86,718
EISENSTADT, JEROME M	REGULATION OF MAMMALIAN MITOCHONDRIAL BIOGENESIS	1R01 GM22142-01	29,188
ENGELMAN, DONALD M.	ORGANIZATION OF CHOLESTERYL ESTERS IN ATHEROSCLEROSIS	5R01 HL14111-05	32,576
EVANS, ALFRED S.	E-B AND OTHER VIRUSES IN CONNECTIVE-TISSUE DISEASES	5R01 AM16030-03	44,201
EVANS, ALFRED S.	E-B AND OTHER VIRUSES IN CANCER	5R01 CA12952-04	163,607
FARQUHAR, MARILYN G	GLOMERULAR CAPILLARIES: NORMAL AND PATHOLOGIC	5R01 AM17724-02	100,472
FARQUHAR, MARILYN G	STUDIES ON SECRETION IN PITUITARY AND OTHER CELLS	5R01 AM17780-03	118,468
FELIG, PHILIP	HORMONES, SUBSTRATES & LIVER IN GLUCOSE HOMEOSTASIS	2R01 AM13526-07	90,567
FISCHER, JAMES J.	RADIATION THERAPY AND BIOLOGY RESEARCH PROGRAM	2P01 CA06519-14	1,227,643
FIXMAN, MARSHALL	PROBLEMS IN THEORETICAL CHEMISTRY AND POLYMERS	5R01 GM13556-12	64,326
FORBES, THOMAS R.	COUNTY OF MIDDLESEX CORONERS' INQUISITIONS	5R01 LM02494-02	14,912
FORGET, BERNARD G.	MOLECULAR BIOLOGY OF HUMAN HEMOGLOBIN SYNTHESIS	1R01 AM19482-01	117,650
FORREST, JOHN N.	EFFECTS OF LITHIUM ON RENAL FUNCTION	5R01 AM17234-02	62,842
FRUTON, JOSEPH S	SPECIFICITY AND MECHANISM OF THYROID PEROXIDASE	5R01 AM15682-05	20,547
FRUTON, JOSEPH S	PROTEIN CONFORMATION AND ENZYME CATALYSIS	5R01 GM18172-06	68,491
GALL, JOSEPH G.	THE ORGANIZATION OF ANIMAL CELL NUCLEI	5R01 GM12427-12	99,984
GALL, JOSEPH G.	THE ORGANIZATION OF ANIMAL CELL NUCLEI	5R01 GM12427-13	110,585
GAREN, ALAN	DEVELOPMENTAL DEFECTS IN DROSOPHILA MUTANTS	5R01 HD06461-05	73,991
GEE, J BERNARD	OBSTRUCTIVE LUNG DISEASE & ALVEOLAR MACROPHAGES	1R01 HL19237-01	83,167
GENA, ALEXANDER S.	SURGICAL ASPECTS OF MYOCARDIAL HYPERTROPHY	1R01 HL19182-01	135,041
GENEL, MYRON	MONITORING FAMILIAL MEDULLARY CARCINOMA IN NEUROSPORA	1R18 CA18863-01	36,920
GERLT, JOHN A.	ENZYMEOLOGY OF PHOSPHORUS METABOLISM	1R01 GM22350-01	46,328
GERLT, JOHN A.	STRUCTURE AND BIOCHEMICAL ACTIVITY OF CYCLIC AMP	1R01 GM23026-01	46,348
GERSHON, RICHARD K	RESPONSE OF THYMUS-DERIVED CELLS TO ANTIGEN	5R01 AI10497-05	75,412
GERSHON, RICHARD K.	RESPONSE OF THYMUS-DERIVED CELLS TO ANTIGEN	5R01 AI10497-06	81,691
GERSHON, RICHARD K.	IMMUNE RESPONSES TO TUMOR GRAFTS	5R01 CA08593-10	103,803
GERSHON, RICHARD K.	IMMUNE RESPONSES TO TUMOR GRAFTS	5R01 CA08593-11	114,639
GERSHON, RICHARD K.	CHARACTERIZATION OF LYMPHOID POPULATIONS IN CANCER	2R01 CA14216-04	103,039
GIEBISCH, GERHARD H	CARDIOVASCULAR, METABOLIC ASPECTS OF MEMBRANE TRANSPORT	5P01 AM17433-03	856,800
GIEBISCH, GERHARD H	MEMBRANE POTENTIAL AND ACTIVE TRANSPORT IN NEUROSPORA	5R01 GM15858-09	72,325
GILLIS, CHARLES N	DISPOSITION OF VASOACTIVE HORMONES IN MAMMALIAN LUNG	2R01 HL13315-06	75,098
GLASER, GILBERT H	NEUROLOGICAL RESEARCH CENTER (EPILEPSY)	5P01 NS06208-11	329,230
GLENN, WILLIAM W	REMOTE STIMULATION BY RADIO-FREQUENCY TRANSMISSION	5R01 HL04651-17	120,199
GODSON, GODFREY N.	DNA REPLICATION IN SMALL VIRUSES, IN VIVO/IN VITRO	5R01 AI11633-02	36,903
GODSON, GODFREY N.	DNA REPLICATION IN SMALL VIRUSES, IN VIVO/IN VITRO	5R01 AI11633-03	29,831
GOLDENBERG, IRA S.	COOPERATIVE STUDY OF BREAST CANCER THERAPY	3R10 CA03360-18S1	47,613
GOLDSMITH, TIMOTHY H	VISUAL MECHANISMS	5R01 EY00222-16	55,284
GOODMAN, DAVID B	MEMBRANE TURNOVER/REPAIR IN NORMAL AND MALIGNANT CELLS	7R01 CA21032-01	45,189
GREENGARD, PAUL	METABOLIC BASIS OF NEURAL FUNCTION	5R01 NS08440-08	77,157
GREGORY, DOUGLAS S.	MECHANISM OF CONTROL OF AQUEOUS HUMOR FORMATION	1R01 EY01630-01	28,121
GROSS, IAN	PHOSPHOLIPID SYNTHESIS BY FETAL LUNG IN ORGAN CULTURE	1R01 HL19752-01	80,962

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
HANDSCHUMACHER, ROBERT E.....	CANCER CHEMOTHERAPY PROGRAM.....	5P01 CA10748-09	743,839
HAYSLETT, JOHN P.....	CARDIOVASCULAR AND METABOLIC ASPECTS OF RENAL FUNCTION.....	5R01 AM18061-03	80,857
HOBBINS, JOHN C.....	SYSTOLIC TIME INTERVALS IN THE HUMAN FETUS AND NEWBORN.....	1R01 HD10138-01	36,363
HODGE, LON D.....	REGULATORY PROCESSES IN SYNCHRONIZED CELLS.....	5R01 CA12229-07	78,686
HODGE, LON D.....	METABOLISM OF ADENOVIRUS RNA.....	1R01 CA18214-01	73,900
HOFFMAN, JOSEPH F.....	ION TRANSPORT ACROSS EPITHELIAL MEMBRANES.....	5R01 AM12028-10	61,288
HOFFMAN, JOSEPH F.....	MEMBRANE TRANSPORT PROCESSES IN RED BLOOD CELLS.....	5R01 HL09906-11	120,995
HORSTMANN, DOROTHY M.....	CLINICAL VIROLOGY OF EPSTEIN BARR VIRUS INFECTIONS.....	5R01 AI11611-03	123,183
HORSTMANN, DOROTHY M.....	CLINICAL VIROLOGY OF EPSTEIN BARR VIRUS INFECTIONS.....	5R01 AI11611-04	123,924
HORSTMANN, DOROTHY M.....	RESPONSES TO RUBELLA VIRION AND SUBUNIT VACCINES.....	5R01 AI11788-06	89,722
HORSTMANN, DOROTHY M.....	RESPONSES TO RUBELLA VIRION AND SUBUNIT VACCINES.....	2R01 AI11788-07	134,381
HORVATH, CSABA G.....	IMMOBILIZED CARBOXYPEPTIDASE G1 IN CANCER CHEMOTHERAPY.....	5R01 CA17245-02	51,758
HORVATH, CSABA G.....	LIQUID CHROMATOGRAPHY OF BIOLOGICAL SUBSTANCES.....	5R01 GM20993-02	42,520
HOWARD-FLANDERS, PAUL.....	CROSS-LINKING OF NUCLEOPROTEINS BY RADIATION.....	5R01 GM11014-16	52,197
HSIUNG, GUEH-DJEN G.....	EXPERIMENTAL MODELS FOR CYTOMEGALOVIRUS INFECTIONS.....	1R01 HD10609-01	73,075
HUSZAR, GABOR B.....	STRUCTURE OF MYOSIN IN NORMAL AND PREGNANT UTERUS.....	1R01 HD10233-01	78,129
HUTCHINSON, FRANKLIN.....	EFFECTS OF THE ANTITUMOR AGENT BLEOMYCIN ON DNA.....	1R01 CA17938-01A1	49,582
JACOBY, ROBERT O.....	TRANSMISSIBLE ATYPICAL ILEAL HYPERPLASIA.....	5R01 RR00945-02	66,934
JAMIESON, JAMES D.....	CELL SECRETION AND MEMBRANE FORMATION IN THE PANCREAS.....	5R01 AM17389-03	72,934
JAMIESON, JAMES D.....	CELL SECRETION AND MEMBRANE FORMATION IN THE PANCREAS.....	5R01 AM17389-04	75,995
JONAS, ALBERT M.....	STUDY OF TRANSMISSIBLE MURINE COLONIC HYPERPLASIA.....	2R26 CA15405-03	68,300
JONAS, ALBERT M.....	RESOURCE FOR STUDY OF LABORATORY ANIMAL DISEASES.....	2P40 RR00393-09	265,746
KANKEL, DOUGLAS R.....	NERVOUS SYSTEM DEVELOPMENT AND SYNAPSE FORMATION.....	5R01 NS11788-03	43,241
KANKEL, DOUGLAS R.....	ACETYLCHOLINESTERASE: GENETICS-NEUROBIOLOGY.....	5R01 NS12346-02	47,644
KANTOR, FRED S.....	CELLULAR IMMUNITY IN VIRAL DISEASES.....	5R01 AI06706-09	34,497
KANTOR, FRED S.....	INTERPLAY OF HUMORAL FACTORS IN CELLULAR IMMUNITY.....	5R01 AI11077-04	123,221
KESSEN, WILLIAM.....	STIMULUS SENSITIVITY OF OBSE-TENDING INFANTS.....	5R01 HD09073-02	22,721
KIDD, KENNETH K.....	GENETICS OF HUMAN BEHAVIORAL DISORDERS: STUTTERING.....	5R01 NS11786-03	70,198
KITAHATA, LUKE M.....	NEUROPHARMACOLOGY-ANESTHESIA AND THE NERVOUS SYSTEM.....	5R01 NS09871-05	59,698
KOHN, ERNEST I.....	CELLULAR AND IMMUNOLOGIC STUDY OF OVARIAN CANCER.....	5R01 CA16214-02	49,916
KOHN, ERNEST I.....	CELLULAR AND IMMUNOLOGIC STUDY OF OVARIAN CANCER.....	5R01 CA16214-03	53,583
KONIGSBERG, WILLIAM.....	RELATION OF PROTEIN STRUCTURE TO BIOLOGICAL FUNCTION.....	5R01 GM12607-12	125,538
LAI, YIN-LOK.....	HEREDITARY RETINAL REGENERATION IN WAG/RJ RATS.....	1R01 EY01769-01	66,788
LANDMESSER, LYNN T.....	DEVELOPMENTAL AND TROPHIC NEURAL INTERACTIONS.....	2R01 NS10666-04	42,019
LANDMESSER, LYNN T.....	DEVELOPMENTAL AND TROPHIC NEURAL INTERACTIONS.....	5R01 NS10666-05	41,921
LENGYEL, PETER.....	INTERFERON, ANIMAL VIRUSES AND PROTEIN SYNTHESIS.....	5R01 AI12320-02	102,628
LERNER, AARON B.....	BIOLOGY OF NORMAL AND MALIGNANT MELANOCYTES.....	5R01 CA04679-17	195,903
LERNER, AARON B.....	NEW APPROACHES TO THE TREATMENT OF MELANOMA.....	1R01 CA18823-01	68,398
MACNAB, ROBERT M.....	PRINCIPLES OF SENSORY RECEPTION AND MOTOR FUNCTION.....	5R01 AI12202-03	21,140
MAGEE, PAUL T.....	REGULATION OF MEIOSIS AND ASCUS DEVELOPMENT IN YEAST.....	5R01 AI11730-03	57,717
MAGEE, PAUL T.....	MUTATIONS AFFECTING RNA POLYMERASES OF MAMMALIAN CELLS.....	5R01 GM21012-03	39,579
MALAWISTA, STEPHEN E.....	BIOPHYSICAL MECHANISMS IN LEUKOCYTES AND MELANOCYTES.....	5R01 AM10493-11	134,790
MANUELIDIS, ELIAS E.....	EXPERIMENTAL CREUTZFELDT-JAKOB DISEASE.....	5R01 NS12674-02	99,946
MANUELIDIS, LAURA M.....	PATHOGENETIC DETERMINANTS OF HUMAN CNS TUMORS.....	5R01 CA15044-03	27,682
MARCHESI, VINCENT T.....	MEMBRANE PROTEINS AND TUMOR-SPECIFIC ANTIGENS.....	3R01 GM19929-03S1	15,758
MARKERT, CLEMENT L.....	STUDY OF EMBRYONIC DEVELOPMENT.....	5R01 HD07741-03	60,035
MARSH, JOHN C.....	EASTERN COOPERATIVE ONCOLOGY GROUP - CLINICAL STUDIES.....	5R10 CA15485-03	59,163
MARSH, JOHN C.....	ANTICANCER DRUGS AND LEUKOCYTE PRECURSOR CELLS.....	5R01 CA18341-02	43,556
MARVIN, DONALD A.....	ONCOGENIC TRANSFORMATION AND THE CELL ENVELOPE.....	5R01 CA13094-05	93,449
MATTHAY, RICHARD A.....	SILICA INDUCED LUNG INJURY.....	1R23 HL19618-01	37,424
MC CABE, JAMES L.....	CAUSES OF INCREASED MARITAL FERTILITY IN URBAN ZAIRE.....	1R01 HD09638-01	50,916
MC CALL, DOLLY C.....	TRANSPLANTABLE CHEMICALLY INDUCED COLON CANCER IN RATS.....	5R26 CA15639-03	60,465
MC COLLUM, ROBERT W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05443-15	98,512
MC GUIRE, JOSEPH S.....	CONTROL OF NORMAL AND PSORIATIC EPIDERMAL CELL DIVISION.....	5R01 AM13929-06	72,302
MC GUIRE, JOSEPH S.....	CONTROL OF NORMAL AND PSORIATIC EPIDERMAL CELL DIVISION.....	5R01 AM13929-07	73,525
MEIGS, J WISTER.....	CANCER IN PERSONS EXPOSED TO EXOGENOUS ESTROGENS.....	1R01 CA20347-01	42,400
MICHAEL, CHARLES R.....	NEUROPHYSIOLOGY OF ALL-CONE VISION.....	5R01 EY00568-08	69,864
MILLER, I GEORGE, JR.....	STUDIES OF EPSTEIN-BARR VIRUS.....	5R01 CA12055-05	86,634
MILLER, WILLIAM H.....	STRUCTURE AND FUNCTION OF EYES.....	5R01 EY00089-12	57,063
MITCHELL, MALCOLM S.....	EFFECTS OF CHEMOTHERAPY ON TUMOR-SPECIFIC IMMUNITY.....	5R01 CA13105-05	55,031



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
MOORE, PETER B.	RIBOSOME STRUCTURE AND FUNCTION	5R01 AI09167-08	68,835
NARDONE, LINDA L.	CELL BIOLOGICAL STUDIES ON SURFACTANT BIOSYNTHESIS	1R23 HL19591-01	42,489
NEMERSON, YALE R.	ATHEROSCLEROSIS, COAGULATION AND THROMBOSIS	5P01 HL16126-03	368,864
NEUFELD, ARTHUR H.	MEDIATORS THAT REGULATE AQUEOUS HUMOR DYNAMICS	5R01 EY01470-02	81,773
NIEDERMAN, JAMES C.	PHARYNGEAL EXCRETION OF EB VIRUS	5R01 AI08731-06	62,602
O'BRIEN, RICHARD T.	MANAGEMENT OF HEMOSIDEROSIS IN THALASSEMIA	1R01 HL19961-01	95,105
OSBALDISTON, GEORGE W.	BEHAVIOR OF HUMAN SICKLE CELLS IN AN ANIMAL MODEL	5R01 HL16285-02	41,175
OSTFELD, ADRIAN M.	RELOCATION IN OLD AGE, HEALTH AND PSYCHOSOCIAL IMPACT	3R01 AG00438-04S1	7,381
PALADE, GEORGE E.	RESEARCH CENTER ON CELLULAR MEMBRANES	5P50 GM21714-02	592,045
PALADE, GEORGE E.	LOCALIZATION OF PORE SYSTEMS IN CAPILLARY WALLS	5R01 HL17080-03	126,341
PAPERMASTER, DAVID S.	MEMBRANE BIOSYNTHESIS IN NORMAL AND DYSTROPHIC RETINA	3R01 EY00845-02S1	500
PAPERMASTER, DAVID S.	MEMBRANE BIOSYNTHESIS IN NORMAL AND DYSTROPHIC RETINA	5R01 EY00845-03	49,758
PINCUS, JONATHAN H.	THIAMINE AND DISORDERS OF BRAIN METABOLISM	5R01 NS09262-05	50,873
PLITICK, FRANCES ANN.	ATHEROSCLEROSIS, COAGULATION AND THROMBOSIS	5P01 HL16126-04	397,792
PLATT, TERRY	REGULATORY SEQUENCES IN TRP OPERON MRNA OF E. COLI	1R01 GM22830-01	43,019
POULSON, DONALD F.	STUDIES ON HEREDITARY ANDROCIDAL INFECTIONS	5R01 AI10467-05	54,377
POWELL, JEFFREY R.	GENETICS OF NATURAL POPULATIONS OF MOSQUITOES	1R01 AI12016-01A2	36,814
POWLEY, TERRY L.	HYPOTHALAMIC CONTROL OF BODY WEIGHT AND FEEDING	5R01 AM15511-05	47,977
POWLEY, TERRY L.	HYPOTHALAMIC CONTROL OF BODY WEIGHT AND FEEDING	5R01 AM15511-06	48,733
PRESTEGARD, JAMES H.	NMR INVESTIGATION OF VESICULAR MEMBRANES	5R01 GM19035-05	34,952
PRICHARD, JAMES W.	NEURONAL EFFECTS OF CONVULSANT AND ANTICONSULSANT DRUGS	5R01 NS08851-06	18,500
PRUSOFF, WILLIAM H.	IODODEOXYURIDINE, IODO-DNA, AND BIOLOGICAL ACTIVITY	2R01 CA05262-16	150,017
PRUSOFF, WILLIAM H.	POTENTIAL ANTICANCER AND ANTIVIRAL BISUBSTRATE ANALOGS	5R01 CA17019-02	44,173
RASMUSSEN, HOWARD	HORMONAL AND IONIC CONTROL OF METABOLISM	7P01 AM19813-01	195,858
REID, TED W.	ROLE OF GLUTAMINE TRANSFERASE IN THE RETINA	1R01 EY1656-01	49,166
RICHARDS, FRANK F.	STUDY OF POLYFUNCTIONAL ANTIBODY-COMBINING REGIONS	2R01 AI08614-09	88,360
RICHARDS, FRANK F.	IMMUNOLOGICAL ACTIVATION OF ONCOGENIC VIRUS	5R01 CA15557-02	57,685
RICHARDS, FREDERIC M.	PROGRAM IN MACROMOLECULAR STRUCTURE, MOTION, CONTROL	1P01 GM22778-01	497,693
RITCHIE, J. MURDOCH	STUDY OF MAMMALIAN C FIBERS	5R01 NS08304-09	68,812
RITCHIE, J. MURDOCH	DEMYELINATING DISEASE-BIOPHYSICS OF NERVE DYSFUNCTION	5R01 NS12327-02	69,845
ROONEY, SEAMUS A.	EFFECT OF HORMONES ON LUNG PHOSPHOLIPID BIOSYNTHESIS	1R01 HD10192-01	88,896
ROOT, RICHARD K.	HUMAN PHAGOCYTE FUNCTION IN HEALTH AND DISEASE	7R01 AI13251-01	51,691
ROOT, RICHARD K.	HUMAN PHAGOCYTE FUNCTION IN HEALTH AND DISEASE	5R01 AI13251-02	56,700
ROSENBAUM, JOEL L.	SYNTHESIS AND ASSEMBLY OF MICROTUBULES	2R01 GM14642-09	91,857
ROSENBAUM, JOEL L.	SYNTHESIS AND ASSEMBLY OF MICROTUBULES	5R01 GM14642-10	100,012
ROSENBERG, LEON E.	TRANSPORT AND METABOLISM OF AMINO ACIDS	5R01 AM09527-11	93,391
ROSENBERG, LEON E.	TRANSPORT AND METABOLISM OF AMINO ACIDS	5R01 AM09527-12	110,559
ROSENBERG, LEON E.	TISSUE CULTURE STUDIES OF INBORN METABOLIC ERRORS	5R01 AM12579-07	125,446
ROSENBERG, LEON E.	STUDY OF HUMAN GENETICS AND INHERITED DISEASE	5P50 GM20124-04	389,231
ROSENTHAL, JEAN L.	NEUROTHROPHIC INFLUENCES ON MUSCLE	2R01 NS10349-04	33,878
RUDDLE, FRANK H.	GENETIC ANALYSIS OF SOMATIC CELL POPULATIONS	2R01 GM09966-14	276,047
RUDDLE, FRANK H.	GENETIC ANALYSIS OF SOMATIC CELL POPULATIONS	5R01 GM09966-15	279,279
RUDDLE, NANCY	PROPAGATION OF THYMUS-DERIVED LYMPHOCYTE LINES	5R01 CA16885-02	58,973
RUPP, W. DEAN	STRUCTURE AND SYNTHESIS OF EPISOME DNA IN BACTERIA	5R01 GM18587-05	36,449
SAHA, SUBRATA	A NEW METHOD TO MEASURE THE RATE OF FRACTURE HEALING	5R01 AM18360-02	23,252
SARTORELLI, ALAN C.	BIOCHEMICAL PHARMACOLOGY OF ANTINEOPLASTIC AGENTS	5R01 CA02817-20	214,999
SASAKI, CLARENCE T.	POSTNATAL RESPIRATORY DEVELOPMENT AS RELATED TO SIDS	5R01 HD09494-02	63,343
SAUNDERS, MARTIN	SOUTHERN NEW ENGLAND HIGH FIELD NMR FACILITY	5P41 RR00798-03	60,167
SCHENKMAN, JOHN B.	INDUCTION AND MODE OF ACTION OF HEPATIC DRUG OXIDASE	5R01 GM17021-07	71,406
SCOTT, ALASTAIR I.	BROAD-SPECTRUM AND ANTITUMOR ANTIBIOTICS-BIOSYNTHESIS	5R01 AI12670-02	93,896
SCOTT, ALASTAIR I.	PORPHYRIN AND CORRINOID BIOSYNTHESIS	5R01 AM17014-03	110,371
SCOTT, ALASTAIR I.	PORPHYRIN AND CORRINOID BIOSYNTHESIS	5R01 AM17014-04	115,029
SCOTT, ALASTAIR I.	BIOSYNTHESIS & BIOGENETIC SYNTHESIS OF INDOLE ALKALOIDS	5R01 CA11095-08	133,585
SEARS, MARVIN L.	PHYSIOLOGIC STUDIES OF INTRAOCULAR PRESSURE	5R01 EY00237-15	143,765
SEARS, MARVIN L.	VISION RESEARCH CENTER	5P30 EY00785-05	182,005
SEARS, MARVIN L.	VISION RESEARCH CENTER	2P30 EY00785-06	233,219
SHAYWITZ, BENNETT A.	ONTOGENY OF BRAIN CATECHOLAMINES AND HYPERACTIVITY	5R01 NS12384-02	74,204
SHEPHERD, GORDON M.	INTEGRATIVE MECHANISMS OF CORTICAL NEURONS	5R01 NS07609-09	68,798
SHEPHERD, GORDON M.	INTEGRATIVE MECHANISMS OF CORTICAL NEURONS	5R01 NS07609-10	74,964
SHOPE, ROBERT E.	CONTROL OF ARBOVIRUS INFECTIONS OF MAN	5P01 AI11132-05	187,630



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
SIMMONDS, SOFIA.....	METABOLIC FUNCTIONS OF BACTERIAL PEPTIDASES.....	1R01 GM23202-01	52,055
SKEEL, ROLAND T.....	IMMUNOTHERAPY OF ACUTE LEUKEMIA.....	3R01 CA17044-01S1	493
SLAYMAN, CAROLYN W.....	GENETIC STUDY OF ION TRANSPORT IN NEUROSPORA.....	5R01 GM15761-08	59,933
SOLL, DIETER G.....	STUDIES ON TRANSFER RNA.....	1R01 GM22854-01	100,195
SOLL, DIETER G.....	BIOCHEMISTRY OF EARLY DEVELOPMENT IN DROSOPHILA.....	5R01 HD09167-02	58,209
SPAULDING, STEPHEN W.....	REGULATION OF THYROIDAL METABOLISM BY PROTEIN KINASES.....	5R01 AM16878-03	20,148
SPAULDING, STEPHEN W.....	STUDIES OF THYROGLOBULIN SYNTHESIS.....	5R01 AM17060-03	42,636
SPEROFF, LEON.....	PROSTAGLANDINS AND TOXEMIA OF PREGNANCY.....	5R01 HD09023-02	71,363
STEITZ, JOAN A.....	CONTROL OF GENE EXPRESSION IN VIRAL INFECTION.....	5R01 AI10243-06	72,926
STEITZ, THOMAS A.....	STRUCTURE BASIS OF ENZYME ACTION, SPECIFICITY & CONTROL.....	5R01 GM18268-05	28,468
STEVENS, CHARLES F.....	COMPUTER ANALYSIS OF NEURON STRUCTURE AND FUNCTION.....	7R01 NS12961-01	600
STEVENS, CHARLES F.....	BASIC NEURAL MECHANISMS.....	7R01 NS12962-01	38,168
STEVENS, CHARLES F.....	BASIC NEURAL MECHANISMS.....	5R01 NS12962-02	69,545
STRYER, LUBERT.....	CONFORMATIONAL ASPECTS OF VISUAL EXCITATION.....	5R01 EY01070-03	56,073
STRYER, LUBERT.....	OPTICAL STUDIES OF PROTEIN STRUCTURE AND FUNCTION.....	5R01 GM16708-08	90,249
STURTEVANT, JULIAN M.....	PHYSICOCHEMICAL STUDIES OF BIOCHEMICAL REACTIONS.....	5R01 GM04725-20	80,414
SUMMERS, WILLIAM C.....	GENETIC STUDY OF ANIMAL VIRUSES.....	2R01 CA13515-04	49,092
TANAKA, KAY.....	BIOCHEMICAL STUDIES OF HEPATIC ENCEPHALOPATHY.....	5R01 AM17453-04	56,172
TIGNOR, GREGORY H.....	RABIES SEROGROUP VIRUS INFECTIONS: IMMUNOPATHOLOGY.....	5R01 AI12541-02	83,467
TRENCH, ROBERT K.....	MACROMOLECULAR SYNTHESIS IN CYANOPHORA PARADOXA.....	5R01 GM20177-03	21,331
TRINKAUS, JOHN P.....	CONTACT BEHAVIOR OF DEVELOPING AND TRANSFORMED CELLS.....	5R01 HD07137-03	58,194
TSIEN, RICHARD W.....	ELECTROPHYSIOLOGY OF HEART MUSCLE/EFFECTS OF EPINEPHRINE.....	5R01 HL13306-06	94,437
WADE, JAMES B.....	PHYSIOLOGY OF EPITHELIA AND MEMBRANE STRUCTURE.....	1R01 AM19344-01	67,480
WAKSMAN, BYRON H.....	THE BEHAVIOR OF CELL SUSPENSIONS IN VITRO AND IN VIVO.....	5R01 AI06112-13	72,694
WAKSMAN, BYRON H.....	SPECIFICITY AND INFORMATION TRANSFER IN SENSITIVITY.....	5R01 AI06455-12	78,444
WALLIS, ROBERT C.....	COLONIAL BATS AS OVERWINTERING RESERVOIR OF EEE VIRUS.....	5R01 AI11927-03	28,506
WALLIS, ROBERT C.....	BIOLOGY OF WEE VIRUS IN MOSQUITOES OF NORTHEAST U S.....	5R01 AI12695-02	31,706
WARSHAW, JOSEPH B.....	CELLULAR ENERGY METABOLISM DURING FETAL DEVELOPMENT.....	5R01 HD08293-03	74,064
WARSHAW, JOSEPH B.....	CELLULAR ENERGY METABOLISM DURING FETAL DEVELOPMENT.....	5R01 HD08293-04	82,183
WASSERMAN, HARRY H.....	NEW SYNTHETIC METHODS APPLIED TO THE PENICILLIN FIELD.....	2R01 GM07874-15	58,004
WASSERMAN, HARRY H.....	SINGLET OXYGEN REACTIONS WITH ORGANIC SUBSTRATES.....	5R01 GM13854-10	64,410
WATERMAN, TALBOT H.....	SENSORY MECHANISMS IN VISUAL ORIENTATION.....	5R01 EY00405-09	65,959
WEINMAN, DAVID, II.....	THE PRIMATE TRYPAOSOMIASIS OF ASIA.....	5R01 AI09888-06	32,421
WEISSMAN, SHERMAN M.....	PROGRAM ON THE MOLECULAR BASIS OF VIRAL TRANSFORMATION.....	5P01 CA16038-03	797,520
WEISSMAN, SHERMAN M.....	STRUCTURAL STUDIES ON PROTEINS SPECIFIED BY SV40.....	5R01 CA16106-03	49,737
WHITE, COLIN.....	CANCER INCIDENCE AMONGST COSMETOLOGISTS.....	1R01 CA20890-01A1	36,091
WILLIAMS, ROBLEY C, JR.....	SUBUNIT ASSOCIATION OF HUMAN HEMOGLOBINS.....	3R01 HL12901-06S1	23,308
WILLIAMS, ROBLEY C, JR.....	SUBUNIT ASSOCIATION OF HUMAN HEMOGLOBINS.....	2R01 HL12901-07	46,104
WRIGHT, FRED S.....	CELLULAR MECHANISMS OF RENAL POTASSIUM EXCRETION.....	5R01 AM14423-06	51,443
WRIGHT, FRED S.....	CELLULAR MECHANISMS OF RENAL POTASSIUM EXCRETION.....	5R01 AM14423-07	56,669
WRIGHT, HASTINGS K.....	INTESTINAL ABSORPTION AFTER BOWEL RESECTION.....	5R01 AM17362-03	19,704
WYMAN, ROBERT J.....	CENTRAL NERVOUS GENERATION OF MOTOR OUTPUT PATTERNS.....	2R01 NS07314-09	72,560
WYMAN, ROBERT J.....	CENTRAL NERVOUS GENERATION OF MOTOR OUTPUT PATTERNS.....	5R01 NS07314-10	78,467
YU, ROBERT K.....	SPHINGOGYCOLIPIDS IN NORMAL AND M. SCLEROSIS BRAINS.....	5R01 NS11853-02	41,664
ZIEGLER, FREDERICK E.....	SYNTHETIC STUDIES OF CYTOTOXIC LACTONES.....	5R01 CA16432-02	59,904
ZIEGLER, FREDERICK E.....	SYNTHETIC STUDIES OF CYTOTOXIC LACTONES.....	5R01 CA16432-03	62,067
ZIGLER, EDWARD F.....	COGNITION AND MOTIVATION IN RETARDED INDIVIDUALS.....	5P01 HD03008-10	272,355
ORGANIZATION TOTAL	273	30,685,306	

## NEW LONDON

### CONNECTICUT COLLEGE ZIP CODE 06320

COBB, JEWEL P.....	MELANOGENESIS AND GROWTH OF PIGMENT CELLS IN VITRO.....	5R01 CA11793-07	35,641
ORGANIZATION TOTAL	1	35,641	

## NORWALK

### NORWALK HOSPITAL ZIP CODE 06856

FLOCH, MARTIN H.....	COLON CARCINOMA, DIET AND THE MICROFLORA.....	3R01 CA16090-01S1	5,200
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**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
FLOCH, MARTIN H.....	COLON CARCINOMA, DIET AND THE MICROFLORA.....	5R01 CA16090-02	54,950
ORGANIZATION TOTAL	2	60,150	
<b>SOUTHBURY</b>			
<b>CONNECTICUT STATE DEPARTMENT OF HEALTH—SOUTHBURY TRAINING SCHOOL ZIP CODE 06488</b>			
BREG, W ROY.....	CYTOGENETIC STUDIES IN MENTAL RETARDATION.....	2R01 HD00339-16	42,476
ORGANIZATION TOTAL	1	42,476	
<b>STORRS</b>			
<b>UNIVERSITY OF CONNECTICUT ZIP CODE 06268</b>			
ALLEN, LINDSAY H.....	DIETARY PROTEIN, OSTEOPOROSIS AND PERIODONTAL DISEASE.....	1R01 DE04295-01	43,387
BOBBITT, JAMES M.....	CHEMICAL STUDIES OF POTENTIAL ANTICANCER AGENTS.....	5R01 CA10494-09	32,312
CHOVNICK, ARTHUR.....	GENETIC STUDIES IN DROSOPHILA MELANOGASTER.....	5R01 GM09886-15	135,927
CLARK, HUGH.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07014-11	105,892
DENENBERG, VICTOR H.....	CONSEQUENCES OF INFANT RISK FACTORS.....	5R01 HD08195-02	124,174
EATON, HAMILTON D.....	HYPO- AND HYPERVITAMINOSIS A.....	5R01 NS02108-17	29,837
EDWARDS, JOHN M.....	ANTINEOPLASTIC PRINCIPLES.....	5R01 CA15230-03	13,881
FREDRICKSON, TORGNV N.....	ETIOLOGY AND PATHOBIOLOGY OF GENITAL CANCERS.....	1R01 CA19837-01	72,790
GIACOBINI, EZIO.....	LOCALIZATION & METABOLISM IN THE CENTRAL NERVOUS SYSTEM.....	5R01 NS11430-02	51,295
GIACOBINI, EZIO.....	CHEMISTRY AND PHARMACOLOGY OF SYMPATHETIC GANGLIA.....	5R01 NS11496-03	30,717
GINSBURG, BENSON E.....	SPF MOUSE COLONY FOR RESEARCH IN BEHAVIORAL GENETICS.....	5P40 RR00602-05	39,890
GOETINCK, PAUL F.....	MOLECULAR BASIS OF NORMAL AND MUTANT LIMB DEVELOPMENT.....	5R01 HD09174-02	57,198
GOLDMAN, BRUCE D.....	REGULATION OF PITUITARY-GONADAL HORMONE SECRETION.....	5R01 HD05481-05	79,930
GOLDMAN, BRUCE D.....	REGULATION OF PITUITARY-GONADAL HORMONE SECRETION.....	5R01 HD05481-06	78,105
HEYWOOD, STUART M.....	MOLECULAR CONTROLS IN MUSCLE DIFFERENTIATION.....	5R01 HD03316-08	85,212
HEYWOOD, STUART M.....	MOLECULAR CONTROLS IN MUSCLE DIFFERENTIATION.....	5R01 HD03316-09	88,515
HIGHTOWER, LAWRENCE E.....	FRACTIONATION OF PARAMYXOVIRUS-INFECTED CELLS.....	1R23 HL19490-01	38,566
KEGELES, GERSON.....	DIFFUSION IN COUPLED SYSTEMS.....	5R01 GM21915-02	52,014
KNOX, JAMES R.....	A NEW APPROACH TO ENZYME-RESISTANT PENICILLINS.....	5R01 AI10925-04	63,293
KRAMER, PAUL A.....	TISSUE-SPECIFIC DELIVERY OF ANTICANCER AGENTS.....	7R01 CA21655-01	27,750
LUCAS-LENARD, JEAN M.....	TRANSLATIONAL CONTROL MECHANISMS.....	5R01 CA12144-05	68,613
LUCAS-LENARD, JEAN M.....	TRANSLATIONAL CONTROL MECHANISMS.....	5R01 CA12144-06	74,999
MARCUS, PHILIP I.....	STUDY OF GENETICS.....	5P01 CA14733-04	216,490
MARCUS, PHILIP I.....	HOST CELL INTERACTION OF ANIMAL VIRUSES.....	9R01 CA20882-06A2	29,880
MUGNAINI, ENRICO.....	DEVELOPMENTAL MORPHOLOGY AND SYNAPTOGENESIS.....	5R01 NS09904-05	120,224
MUGNAINI, ENRICO.....	ORGANIZATION AND DEVELOPMENT OF NERVOUS TISSUES.....	2R01 NS09904-06	69,695
NORTHROP, ROBERT B.....	CAROTID OCCLUSION DIAGNOSIS BY NO-TOUCH OCULAR PULSE.....	1R01 HL19172-01	56,540
PILAR, GUILLERMO R.....	GANGLIONIC SYNAPTIC TRANSMISSION.....	5R01 NS10338-05	92,787
PILAR, GUILLERMO R.....	GANGLIONIC SYNAPTIC TRANSMISSION.....	2R01 NS10338-06	106,484
SACHS, BENJAMIN D.....	ANALYSIS OF MASCULINE BEHAVIOR.....	5R01 HD08933-02	45,606
SAMULSKI, EDWARD T.....	NMR RELAXATION IN POLYPEPTIDE LIQUID CRYSTAL.....	5R01 AM17497-03	29,183
SCHUSTER, TODD M.....	BIOPHYSICAL STUDIES OF VIRUS ASSEMBLY.....	5R01 AI11573-04	63,564
SCHUSTER, TODD M.....	MECHANISM OF LIGAND BINDING TO HEMOGLOBIN.....	5R01 HL17494-06	51,840
SOMES, RALPH G, JR.....	REGISTRY OF SPECIALIZED GENETIC STOCKS.....	5P40 RR00529-08	8,470
SPEYER, JOSEPH F.....	MOLECULAR MECHANISMS OF INFORMATION TRANSFER.....	5R01 GM15697-09	67,080
STEPITA-KLAUCO, MATEJ.....	THE PHYSIOLOGICAL ROLE OF PIPERIDINE IN CNS.....	5R01 NS11716-03	27,180
STEPITA-KLAUCO, MATEJ.....	PIPERIDINE AND SLEEP.....	5R01 NS12482-02	9,400
WYAND, D STUART.....	ANIMAL FACILITIES IMPROVEMENT.....	5P40 RR00924-02	29,682
WYAND, D STUART.....	ANIMAL FACILITIES IMPROVEMENT.....	5P40 RR00924-03	23,570
YANG, TSU-JU T.....	ETIOLOGICAL STUDY OF TRANSMISSIBLE SARCOMA.....	7R01 CA19361-01	49,394
YPHANTIS, DAVID A.....	SELF-ASSOCIATION OF INSULIN.....	5R01 AM18001-02	50,998
YPHANTIS, DAVID A.....	SELF-ASSOCIATION OF INSULIN.....	5R01 AM18001-03	53,659
ORGANIZATION TOTAL	42	2,596,023	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CONNECTICUT—Continued</b>			
<b>WEST HARTFORD</b>			
<b>UNIVERSITY OF HARTFORD</b>	<b>ZIP CODE 06117</b>		
BECK, ANN F.....	SCIENCE, MEDICINE AND MODERNIZATION IN EAST AFRICA.....	2R01 LM01803-03	10,598
ORGANIZATION TOTAL	1 10,598		
STATE TOTAL	438 41,000,144		
<b>DELAWARE</b>			
<b>DOVER</b>			
<b>DELAWARE STATE COLLEGE</b>	<b>ZIP CODE 19901</b>		
FERGUSON, THOMAS.....	RESEARCH IN RADIATION PROTECTION AND DRUG ANALYSIS.....	5S06 RR08011-05	62,020
ORGANIZATION TOTAL	1 62,020		
<b>NEWARK</b>			
<b>UNIVERSITY OF DELAWARE</b>	<b>ZIP CODE 19711</b>		
BOORD, ROBERT L.....	LATERAL LINE PROJECTIONS.....	2R01 NS11272-03	40,249
COLMAN, ROBERTA F.....	EFFECT OF COENZYMES ON ENZYME STRUCTURE AND FUNCTION.....	2R01 AM17552-04	101,015
COLMAN, ROBERTA F.....	AFFINITY LABELS OF NUCLEOTIDE SITES IN DEHYDROGENASES.....	2R01 GM21200-03	43,824
GRANDA, ALLEN M.....	PROCESSING OF VISUAL INFORMATION.....	5R01 EY01540-08	59,520
GRANDA, ALLEN M.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07016-03	27,657
JAIN, MAHENDRA K.....	FACTORS GOVERNING THE ACTION OF PHOSPHOLIPASES.....	1R01 GM23122-01	32,916
MOLLOY, GEORGE R.....	STRUCTURE OF NUCLEAR RNA AND MESSENGER RNA FORMATION.....	1R01 CA19535-01	66,529
PENE, JACQUES J.....	REGULATORY MECHANISMS IN VIRUS DEVELOPMENT.....	5R01 AI11868-03	60,345
TASCA, RICHARD J.....	AMINO ACID TRANSPORT DURING EARLY DEVELOPMENT.....	5R01 HD08557-02	40,906
WAGNER, ROGER C.....	MICROPINOCYTOSIS IN ISOLATED CAPILLARY ENDOTHELIUM.....	5R01 HL16666-02	32,138
WAGNER, ROGER C.....	MICROPINOCYTOSIS IN ISOLATED CAPILLARY ENDOTHELIUM.....	5R01 HL16666-03	33,941
WETLAUFER, DONALD B.....	KINETICS AND MECHANISMS OF PROTEIN SELF-ASSEMBLY.....	7R01 GM23713-01	71,293
WHITE, HAROLD B, III.....	VITAMIN TRANSPORT.....	2R01 GM19620-04	61,761
WHITE, HAROLD B, III.....	GLYCEROL 3-PHOSPHATE DEHYDROGENASE SEQUENCE.....	1R01 GM22343-01	53,124
WRISTON, JOHN C, JR.....	PROPERTIES OF GLYCOSYLATED E. COLI ASPARAGINASE.....	5R01 CA16801-02	59,348
WRISTON, JOHN C, JR.....	PROPERTIES OF GLYCOSYLATED E. COLI ASPARAGINASE.....	5R01 CA16801-03	60,755
ORGANIZATION TOTAL	16 845,321		
<b>WILMINGTON</b>			
<b>WILMINGTON MEDICAL CENTER</b>	<b>ZIP CODE 19801</b>		
FRELICK, ROBERT W.....	COOPERATIVE CLINICAL TRIALS - CENTRAL ONCOLOGY GROUP.....	3R10 CA14678-03S1	44,249
WHITNEY, LESLIE W.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	2P20 CA17093-02	94,627
WHITNEY, LESLIE W.....	A TUMOR CONTROL CENTER PROGRAM.....	1R18 CA18940-01	184,006
ORGANIZATION TOTAL	3 322,882		
STATE TOTAL	20 1,230,223		
<b>DIST OF COL</b>			
<b>WASHINGTON</b>			
<b>AEROSPACE MEDICAL ASSOCIATION</b>	<b>ZIP CODE 20001</b>		
BENFORD, ROBERT J.....	THE HERITAGE OF AVIATION MEDICINE.....	5R01 LM02656-02	3,588
ORGANIZATION TOTAL	1 3,588		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>DIST OF COL—Continued</b>			
<b>AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE      ZIP CODE 20036</b>			
BROWN, JANET W.....	MINORITIES IN SCIENCE.....	1R13 CA20119-01	20,000
BROWN, JANET W.....	MINORITIES IN SCIENCE.....	1R13 GM23018-01	20,000
ORGANIZATION TOTAL	2      40,000		
<b>AMERICAN CHEMICAL SOCIETY      ZIP CODE 20036</b>			
HARMON, ROBERT E.....	CHEMISTRY AND BIOLOGY OF NUCLEOSIDES AND NUCLEOTIDES.....	1R13 CA20090-01	10,813
HARMON, ROBERT E.....	CELLSURFACE CARBOHYDRATE CHEMISTRY.....	1R13 CA20439-01	8,635
ORGANIZATION TOTAL	2      19,448		
<b>AMERICAN INSTITUTES FOR RESEARCH      ZIP CODE 20007</b>			
FRIEDMAN, HERBERT L.....	CONTRACEPTION, ABORTION AND COUPLE DECISION-MAKING.....	5R01 HD07268-03	37,947
KRUG, ROBERT E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05615-09	33,890
ORGANIZATION TOTAL	2      71,837		
<b>AMERICAN NATIONAL RED CROSS      ZIP CODE 20006</b>			
GREENWALT, TIBOR J.....	STUDIES OF BLOOD GROUP ANTIGENS AND ANTIBODIES.....	5R01 HL11154-10	79,128
JAMIESON, GRAHAM A.....	MEMBRANE GLYCOPROTEINS OF PLATELETS AND LEUKOCYTES.....	5R01 AI09017-08	54,287
JAMIESON, GRAHAM A.....	ROLE OF PLATELET MEMBRANES IN HEMOSTASIS.....	5R01 HL14697-05	81,107
JAMIESON, GRAHAM A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05737-05	33,859
KOSOW, DAVID P.....	ENZYMATIC REGULATION OF PLATELET FUNCTION.....	1R01 HL18502-01	33,671
KOSOW, DAVID P.....	REGULATION OF THE ACTIVATION OF HUMAN FACTOR X.....	1R01 HL19282-01	33,890
MAZZUR, SCOTT R.....	GENETIC AND CULTURAL STUDIES OF AUSTRALIA ANTIGEN.....	5R01 GM21736-02	6,500
MERYMAN, HAROLD T.....	PRESERVATION OF ORGANS BY FREEZING.....	2R01 GM17959-04A1	79,143
MERYMAN, HAROLD T.....	PRESERVATION OF HUMAN PLATELETS.....	1R01 HL16627-01A2	53,681
MERYMAN, HAROLD T.....	PRESERVATION OF HUMAN PLATELETS.....	5R01 HL16627-02	78,784
WICKERHAUSER, MILAN.....	SUPPORT FOR NATIONAL FRACTIONATION CENTER.....	2R01 HL13881-06	88,006
ORGANIZATION TOTAL	11      622,056		
<b>AMERICAN PUBLIC HEALTH ASSOCIATION      ZIP CODE 20036</b>			
LIEBERMAN, E JAMES.....	ADOLESCENT FERTILITY: PSYCHOSOCIAL FACTORS.....	1R01 HD09891-01	95,484
ORGANIZATION TOTAL	1      95,484		
<b>AMERICAN UNIVERSITY      ZIP CODE 20016</b>			
BREYERE, EDWARD J.....	THE MATERNAL-FETAL ALLOGRAFT RELATION.....	5R01 CA05660-16	90,734
ORGANIZATION TOTAL	1      90,734		
<b>CATHOLIC UNIVERSITY OF AMERICA      ZIP CODE 20017</b>			
ABERHART, DONALD J.....	SYNTHESIS OF VITAMIN D3 METABOLITES.....	5R01 AM17057-03	20,903
ATABEK, BULENT H.....	FLOW FIELD IN AORTA AND ITS MAJOR BRANCHES.....	5R01 HL12083-09	59,574
HUNT, JOHN B.....	ACTIVE SITE IDENTIFICATION IN METALLOENZYMES.....	5R01 GM20378-03	31,994
LEE, CHE-FU.....	FERTILITY DYNAMICS AND SEQUENTIAL CORRELATES.....	1R01 HD09500-01	62,847
MC MANUS, FREDERICK R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07123-08	20,347
ROBERTS, JERRY H.....	A STUDY OF DNA AND HISTONE EFFECTS ON ENZYME ACTIVITY.....	5R01 GM22152-02	32,893
VAISHNAV, RAMESH N.....	LOCAL MECHANICAL PROPERTIES OF THE AORTIC TISSUE.....	3R01 HL15270-03S1	25,692
VAISHNAV, RAMESH N.....	LOCAL MECHANICAL PROPERTIES OF THE AORTIC TISSUE.....	2R01 HL15270-04	31,647
VAISHNAV, RAMESH N.....	LOCAL MECHANICAL PROPERTIES OF THE AORTIC TISSUE.....	5R01 HL15270-05	68,341
ZON, GERALD.....	SYNTHESIS AND STEREOCHEMISTRY OF NEW ANTICANCER DRUGS.....	5R01 CA16158-03	24,530
ORGANIZATION TOTAL	10      378,768		
<b>CHILDREN'S HOSPITAL NATIONAL MEDICAL CENTER      ZIP CODE 20009</b>			
BARNET, ANN B.....	SENSORY EVOKED EEG AND BEHAVIORAL RESPONSES IN CHILDREN.....	2R01 HD02296-11	98,880
HOUC, JOHN C.....	IMMUNOSUPPRESSION OF GRAFT REJECTION BY CHALONE.....	5R01 AM17167-03	85,880
HOUC, JOHN C.....	SPECIFIC INHIBITION OF HUMAN FIBROBLAST PROLIFERATION.....	5R01 CA14484-03	80,271
LEIKIN, SANFORD L.....	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	5R10 CA03888-19	96,816
LEIKIN, SANFORD L.....	COOPERATIVE STUDY OF LEUKEMIA (PLATELETS).....	5R01 CA11988-20	64,065
LEIKIN, SANFORD L.....	LYMPHOCYTOTOXICITY IN NEUROBLASTOMA.....	5R01 CA15566-03	68,382
LEIKIN, SANFORD L.....	HORMONAL CHANGES IN CHILDREN WITH SICKLE CELL DISEASE.....	5R01 HD08574-02	43,015
PARROTT, ROBERT H.....	NEW VIRUSES IN RELATION TO CLINICAL DISEASE.....	5R01 AI01528-20	92,265



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>DIST OF COL—Continued</b>			
PARROTT, ROBERT H .....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN .....	5M01 RR00284-10	52,969
PARROTT, ROBERT H .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05515-14	78,733
ROSS, SYDNEY .....	NEW METHODS IN RAPID DIAGNOSIS OF MENINGITIS .....	5R01 NS12421-02	50,496
ORGANIZATION TOTAL	11	811,772	
<b>DISTRICT OF COLUMBIA BOARD OF HIGHER EDUCATION—FEDERAL CITY COLLEGE ZIP CODE 20005</b>			
MACK, JULIUS L .....	ENVIRONMENTAL CARCINOGENS & OTHER BIOMEDICAL PROBLEMS .....	5S06 RR08005-05	123,929
ORGANIZATION TOTAL	1	123,929	
<b>GALLAUDET COLLEGE ZIP CODE 20002</b>			
PICKETT, JAMES M .....	PERCEPTION OF COMPLEX AUDITORY STIMULI BY THE DEAF .....	5R01 NS05464-12	93,447
PICKETT, JAMES M .....	SPEECH-FEATURE DISCRIMINATION TESTING .....	1R01 NS13190-01	88,425
ORGANIZATION TOTAL	2	181,872	
<b>GEORGE WASHINGTON UNIVERSITY ZIP CODE 20006</b>			
ALBERT, ERNEST N .....	EFFECTS OF STEROIDS AND PREGNANCY ON ARTERIES AND VEINS .....	5R01 HL12557-08	43,562
BAILEY, J MARTYN .....	PROSTAGLANDIN SYNTHESIS IN TRANSFORMED CELLS .....	5R01 CA15356-02	53,354
BAILEY, J MARTYN .....	LIPID METABOLISM IN CULTURED CELLS .....	5R01 HL05062-15	51,643
BAILEY, J MARTYN .....	LIPID METABOLISM IN CULTURED CELLS .....	5R01 HL05062-16	60,822
BRADLEY, EILEEN W .....	LATE EFFECTS OF FAST NEUTRONS ON CORD-BRAIN-LUNG .....	5R01 CA18143-02	288,712
CORNFIELD, JEROME .....	MULTIPARAMETER METHODS FOR CARDIOVASCULAR RESEARCH .....	5R01 HL15191-05	95,876
DOBBINS, WILLIAM O, III .....	COLONIC CANCER IN ULCERATIVE COLITIS .....	5R26 CA17776-02	88,404
DRUM, BRUCE A .....	ROLES OF TONIC AND PHASIC NEURAL SYSTEMS IN VISION .....	5R01 EY01672-02	51,989
ECKELMAN, WILLIAM C .....	CLINICAL EVALUATION OF RADIOLABELED BLEOMYCIN .....	5R01 CA18674-02	60,292
ECKELMAN, WILLIAM C .....	BIOLOGIC TRACERS LABELED WITH GAMMA EMITTING ISOTOPES .....	5R01 CA18675-02	57,945
EDWARDS, GORDON S .....	CARCINOGEN EFFECTS ON NUCLEAR PROTEINS .....	3R01 CA14784-02S1	2,721
FINKELSTEIN, JAMES D .....	SULFUR AMINO ACID METABOLISM IN MAMMALS .....	2R01 AM13048-08	41,256
FINKELSTEIN, JAMES D .....	SULFUR AMINO ACID METABOLISM IN MAMMALS .....	5R01 AM13048-09	42,189
GALLO, LINDA L .....	MECHANISM & INHIBITION OF CHOLESTEROL ABSORPTION .....	5R01 AM17269-02	33,751
HOLLINSHEAD, ARIEL C .....	CMI TO BLADDER CANCER TAA IN VIVO AND IN VITRO .....	5R26 CA17444-02	69,979
JACKSON, MICHAEL J .....	INTESTINAL TRANSPORT OF SHORT CHAIN FATTY ACIDS .....	5R01 AM13240-08	22,554
JACKSON, MICHAEL J .....	DRUG TRANSPORT IN THE GI TRACT AND OTHER EPITHELIA .....	1R01 GM22369-01	20,400
JOSEPH, WILLIAM L .....	MEMBRANE LUNG SUPPORT IN MASSIVE PULMONARY EMBOLUS .....	5R01 HL16143-02	49,429
KIND, PHYLLIS D .....	GS ANTIGEN IN PROSTATIC CANCER .....	5R26 CA17208-02	44,403
KLUBES, PHILIP .....	SYNERGISM DURING COMBINATION CANCER CHEMOTHERAPY .....	5R01 CA17601-02	65,450
LEONARD, FRED .....	MAXILLOFACIAL MATERIALS .....	5R01 DE03860-03	43,121
LEONARD, FRED .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05359-15	165,841
LOEB, MARILYN R .....	VIRUS-MEDIATED CHANGES IN THE CELL SURFACE .....	7R01 AI13411-01	61,049
MANDEL, H GEORGE .....	METHODS FOR STUDYING ACTIONS OF TUMOR-INHIBITORY DRUGS .....	5R01 CA02978-19	131,215
MANTEL, NATHAN .....	CANCER EPIDEMIOLOGY: STATISTICAL METHODS .....	5R01 CA15686-02	86,136
MASSARO, DONALD J .....	THE LUNGS LINING LAYER: SYNTHESIS AND SECRETION .....	5R01 HL16031-03	55,986
MC GOWAN, LARRY .....	GYNECOLOGIC ONCOLOGY GROUP .....	5R10 CA13446-03	44,622
MC GOWAN, LARRY .....	GYNECOLOGIC ONCOLOGY GROUP .....	2R10 CA13446-04	56,343
MC GOWAN, LARRY .....	EPIDEMIOLOGIC STUDY OF PRIMARY CANCER OF THE OVARY .....	5R01 CA14941-03	66,361
MUESING, RICHARD A .....	THE MECHANISM OF PLASMA CHOLESTEROL ESTERIFICATION .....	1R01 HL19250-01	32,957
OLSON, MARK D .....	THE FINE STRUCTURAL DEVELOPMENT OF BRUCH'S MEMBRANE .....	5R01 EY01511-02	34,325
PIPBERGER, HUBERT V .....	DIGITAL COMPUTER ANALYSIS OF THE ELECTROCARDIOGRAM .....	3R01 HL15047-04S1	146,781
PIPBERGER, HUBERT V .....	CLASSIFICATION CODE FOR FRANK ORTHOGONAL ECG .....	1R01 HL18850-01	55,238
REBA, RICHARD C .....	SEMISYNTHETIC BLEOMYCINS: SYNTHESIS & CHARACTERIZATION .....	5R01 CA18661-02	77,741
REBA, RICHARD C .....	INCREASED SENSITIVITY OF RADIOPHARMACEUTICALS .....	1R01 CA19383-01	31,636
ROGERS, CHARLES C .....	PRELIMINARY STUDIES FOR NEUTRON CANCER THERAPY TRIAL .....	5P01 CA17465-02	353,568
SMITH-GILL, SANDRA J .....	MITOTIC CONTROLS IN THYROID-INDUCED DIFFERENTIATION .....	1R01 AM18786-01	35,515
SOLOMON, HENRY .....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	5S07 RR07019-11	45,740
TREADWELL, CARLETON R .....	REGULATION OF CHOLESTEROL ESTER LEVELS IN BLOOD & TISSUE .....	5R01 HL02033-21	61,312
VAHOUNY, GEORGE V .....	CHOLESTEROL ESTERASE REGULATION OF STEROIDOGENESIS .....	5R01 AM17030-03	36,264
VAHOUNY, GEORGE V .....	MYOCARDIAL LIPID METABOLISM AND REGULATION .....	5R01 HL09489-11	42,085
ORGANIZATION TOTAL	41	2,908,567	
<b>GEORGETOWN UNIVERSITY ZIP CODE 20007</b>			
BARKER, WINONA C .....	HOMOLOGOUS PHYSIOLOGICAL SYSTEMS IN HUMAN DEVELOPMENT .....	5R01 HD09547-02	69,230

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>DIST OF COL—Continued</b>			
BELLANTI, JOSEPH A.	CELLULAR AND IMMUNOLOGICAL BASIS OF PULMONARY DISEASES	5P01 HL16748-03	315,216
BLECHER, MELVIN	MECHANISMS OF ACTION OF HORMONES AND CYCLIC NUCLEOTIDES	2R01 AM05475-15	86,073
BLECHER, MELVIN	NEW TECHNIQUES FOR ANALYZING CYTOGENETIC ABERRATIONS	5R01 GM20046-02	43,352
BLECHER, MELVIN	NEW TECHNIQUES FOR ANALYZING CYTOGENETIC ABERRATIONS	5R01 GM20046-03	54,812
BUTLER, ANN B.	EVOLUTION OF STRUCTURE AND CONNECTIONS OF NEOCORTIX	7R01 NS12966-01	14,391
CHIRIKJIAN, JACK G.	RNA MODIFYING ENZYMES IN NORMAL AND NEOPLASTIC CELLS	5R01 CA16914-02	31,571
COLEMAN, MARY P.	SEROTONIN SCREENING OF NEONATES	5R01 HD07695-03	46,618
DE LEVIE, ROBERT	KINETICS OF ION TRANSPORT THROUGH MEMBRANES	5R01 GM22296-02	46,641
DELGADO, GREGORIO	GYNECOLOGIC ONCOLOGY GROUP	1R10 CA16938-01A2	38,903
DOUKAS, HARRY M.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05306-15	18,771
FELLER, WILLIAM F.	CHARACTERIZATION OF DNA POLYMERASES IN HUMAN MILK	5R01 CA17623-02	47,979
GABRIEL, OTHMAR	METABOLISM AND FUNCTION OF DEOXYSUGARS	5R01 AI07241-11	56,005
GABRIEL, OTHMAR	LIVER PLASMA MEMBRANE-BINDING OF SERUM GLYCOPROTEINS	5R01 AM16363-03	31,294
GABRIEL, OTHMAR	ACTINOMYCES: MODEL STUDIES ON DENTAL PLAQUE FORMATION	5R01 DE04201-02	34,245
GALLAGHER, BRIAN B.	CLINICAL PHARMACOLOGY OF ANTICONVULSANTS	2R01 NS11126-02	58,545
GILLIS, RICHARD A.	NEUROPHARMACOLOGY OF THE HEART	5R01 HL13675-06	40,108
HAMOSH, MARGIT	BLOOD TRIGLYCERIDE AND LIPOPROTEIN LIPASE IN THE LUNG	1R01 HL19056-01	48,551
HARBERT, JOHN C.	ACTA-SCAN DIAGNOSIS OF PANCREATIC CARCINOMA	1R26 CA19397-01	37,155
HELLEGERS, ANDRE E.	STUDIES OF BLOOD SUBSTITUTE AND CIRCULATION	5R01 HD08124-02	51,476
HERZBERG, DONALD	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07136-05	18,068
HORNER, WILLIAM H.	METABOLISM OF GUANIDINOXY COMPOUNDS IN MAMMALS	5R01 GM21940-02	39,736
IRWIN, RICHARD D.	EFFECTS OF IRRADIATION ON THE ACTIVITIES OF TUBULIN	5R01 GM21637-02	25,087
KATZ, EDWARD	BIOSYNTHESIS OF ACTINOMYCIN, AN ANTITUMOR AGENT	5R01 CA06926-14	60,589
KUMAR, SOMA	SYNTHESIS OF FATTY ACIDS IN MAMMALIAN TISSUES	2R01 AM16086-04A1	60,072
LEDLEY, ROBERT S.	ANALYSIS OF CHROMOSOME KARYOGRAMS	5R01 HD05361-12	112,942
MARAK, GEORGE E., JR.	LENS-INDUCED UVEITIS AND SYMPATHETIC OPHTHALMIA	5R01 EY00887-05	78,108
MC CURDY, PAUL R.	ABNORMAL HEMOGLOBIN SYNDROMES	5R01 HL14131-16	35,326
MOSSMAN, KENNETH L.	EFFECTS OF NEUTRONS ON TASTE AND SALIVA IN HUMANS	1R01 CA18865-01	46,810
PENHOS, JUAN C.	ROLE OF GLUCAGON IN PITUITARY AND ADRENAL HORMONES	5R01 AM16342-03	56,868
POPE, MICHAEL T.	STABLE ORGANIC DERIVATIVES OF HETEROPOLY ACIDS	1R01 GM23263-01	85,530
POTTER, JOHN F.	VINCENT T. LOMBARDI CANCER RESEARCH CENTER - PHASE III	3P30 CA14626-02S1	17,940
POTTER, JOHN F.	VINCENT T. LOMBARDI CANCER RESEARCH CENTER - PHASE III	5P30 CA14626-03	282,641
POTTER, JOHN F.	SUPPORT FOR CLINICAL CANCER EDUCATION	1R25 CA19028-01	125,825
PREUSS, HARRY G.	OXIDATIVE METABOLISM OF GLUTAMINE	5R01 AM15458-05	55,558
RAINES, ARTHUR	EFFECTS OF ANTICONVULSANTS ON CEREBELLAR FUNCTION	2R01 NS10667-02	41,853
RAMMELL, PETER W.	ROLE OF ANDROGEN AS A RISK FACTOR IN ATHEROGENESIS	5R01 HL17516-02	75,914
RAMMELL, PETER W.	PROSTAGLANDIN PRECURSORS AND VASCULAR REACTIVITY	1R01 HL18718-01	130,324
RAMMELL, PETER W.	PROSTAGLANDIN PRECURSORS AND VASCULAR REACTIVITY	5R01 HL18718-02	143,255
RECAN, LILLIAN	ROLE OF CAMP IN INSULIN AND GLUCAGON SECRETION	5R01 AM17431-03	43,361
SAZ, ARTHUR K.	STUDY OF ANTIBIOTIC RESISTANCE IN N. GONORRHOEA	5R01 AI12388-02	47,161
SCHEIN, PHILIP S.	PHARMACOLOGY OF NONMYELOSUPPRESSIVE ANTITUMOR AGENTS	1R01 CA17583-01	68,207
SCHWARTZ, SORELL L.	TOXICITY OF INERT PARTICLES TO ALVEOLAR MACROPHAGES	5R01 ES00754-03	36,968
SLOTKOFF, LAWRENCE M.	REGULATION OF SODIUM EXCRETION	5R01 HL12827-07	104,889
SMULSON, MARK E.	MAMMALIAN RNA SYNTHESIS DURING AMINO ACID DEPRIVATION	5R01 CA11950-06	49,295
SMULSON, MARK E.	HISTONE ADP-RIBOSYLATION AND HELA CELL REPLICATION	2R01 CA13195-04A1	33,914
SREEVALSAN, THAZEPADATH	BIOCHEMICAL AND GENETIC STUDIES ON ARBOVIRUSES	5R01 AI09355-05	46,725
SREEVALSAN, THAZEPADATH	BIOCHEMICAL AND GENETIC STUDIES ON ARBOVIRUSES	5R01 AI09355-06	50,738
STANDAERT, FRANK G.	PROGRAM PROJECT IN NEUROPHARMACOLOGY	1P01 NS12566-01A1	375,233
STEINHARDT, JACINTO	STUDIES IN THE POLYMERIZATION OF SICKLE-CELL HEMOGLOBIN	5R01 HL12256-12	63,472
STEINHARDT, JACINTO	STUDIES IN THE POLYMERIZATION OF SICKLE-CELL HEMOGLOBIN	2R01 HL12256-13	80,400
UTZ, JOHN P.	GENERAL CLINICAL RESEARCH CENTER	2M01 RR00060-15	411,253
UTZ, JOHN P.	BIOLOGICAL RESEARCH SUPPORT GRANT	5S07 RR05360-15	122,097
WALTERS, LEROY B.	ESTABLISHING AN INFORMATION SYSTEM FOR BIOETHICS	5R01 LM01702-03	78,294
WONG, VERNON G.	EXPERIMENTAL OCULAR HISTOPLASMOSIS IN PRIMATES	5R01 EY01443-02	49,623
ORGANIZATION TOTAL	55	4,325,012	
<b>GORGAS MEMORIAL INSTITUTE OF TROPICAL AND PREVENTIVE MEDICINE ZIP CODE 20006</b>			
GALINDO, PEDRO	ECOLOGY OF VECTOR BORNE VIRUSES IN PANAMA	5R01 AI02984-17	126,234
JUSTINES, GUSTAVO	LATENT INFECTION OF EPIZOOTIC VEE VIRUS IN EQUINES	1R01 AI13478-01	60,038
READ, ROBERT G.	MICROCLIMATE IN ECOLOGY OF ARTHROPOD-BORNE DISEASES	5R01 AI11889-03	20,089

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>DIST OF COL—Continued</b>			
ORGANIZATION TOTAL	3	206,361	
<b>HOWARD UNIVERSITY ZIP CODE 20001</b>			
ASHE, WARREN K.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05361-15	112,435
BAROFSKY, ANNA-LISA	SEROTONINERGIC MECHANISMS IN OVULATION INHIBITION	7R01 HD10676-01	54,868
COSTELLO, LESLIE C.	PROSTATE CITRATE METABOLISM	5R01 HD08420-02	36,940
CRISS, WAYNE E.	ADENYLATE KINASE IN NORMAL AND NEOPLASTIC TISSUES	7R01 CA20077-01	36,500
CURRY, CHARLES L.	CLINICAL STUDY OF HYPERTENSION	5R01 HL16531-02	231,138
DUNSTON, GEORGIA M.	IN VITRO CELLULAR IMMUNITY OF REGIONAL LYMPH NODES	1R01 CA19520-01	82,394
FRANKLIN, RENTY B.	THE EFFECTS OF CALCITONIN ON CITRATE REGULATION	1R01 AM19049-01	26,700
HAWTHORNE, EDWARD W.	HYPERTENSION AND LEFT VENTRICULAR HYPERTROPHY	3R01 HL01015-24S1	6,005
HAWTHORNE, EDWARD W.	HYPERTENSION AND LEFT VENTRICULAR HYPERTROPHY	2R01 HL01015-25	118,405
HAWTHORNE, EDWARD W.	BIOMEDICAL SCIENCES SUPPORT GRANT	5S07 RR07117-04	63,741
JACKSON, MARVIN A.	EPIDEMIOLOGIC STUDY OF PROSTATIC CARCINOMA	5R26 CA15448-03	166,917
LEAK, LEE V.	THE LYMPHATIC SYSTEM IN HEALTH AND IN INFLAMMATION	5R01 AI10639-06	45,178
LEAK, LEE V.	ONTOGENY, ULTRASTRUCTURE FUNCTION IN LYMPHATIC SYSTEM	2R01 HL13901-06	70,097
MORRIS, HAROLD P.	INDUCTION-CHARACTERIZATION-MINIMAL DEVIATION HEPATOMAS	5R01 CA10729-09	259,267
PRADHAN, S N.	INFLUENCE OF CENTRAL NERVOUS SYSTEM ON ONCOGENESIS	5R01 CA11982-05	28,322
RIER, JOHN P, JR.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S06 RR08016-05	181,773
SCOTT, ROLAND B.	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	5P60 HL15160-05	638,866
STORM, CARLYLE B.	HYDROLYSIS AND SEQUENCING OF PROTEINS	5R01 GM18552-05	35,410
TANAKA, DUKE, JR.	DEVELOPMENT OF FRONTAL LOBE CONNECTIONS	5R01 NS12463-02	24,575
WALRAFEN, GEORGE E.	OPTICAL-FIBER LASER-RAMAN SPECTRA FROM PROTEINS	1R01 GM23329-01	49,101
WALTERS, CURLA S.	IMMUNOLOGICAL REACTIONS TO HAPTENS ON AUTOLOGOUS CARRIES	5R01 AI13122-02	54,983
WHITE, JACK E.	CANCER RESEARCH PROGRAM	5P30 CA14718-03	272,643
WHITE, JACK E.	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	2P30 CA14718-04	343,191
WHITE, JACK E.	CLINICAL CANCER EDUCATION PROGRAM	1R25 CA19376-01	135,045
ORGANIZATION TOTAL	24	3,074,494	
<b>INTERNATIONAL ASSOCIATION FOR THE STUDY OF PAIN ZIP CODE 20036</b>			
BONICA, JOHN J.	FIRST INTERNATIONAL SYMPOSIUM ON CANCER PAIN	3R13 CA18731-01S1	4,728
BONICA, JOHN J.	FIRST WORLD CONGRESS ON PAIN	1R13 DE04368-01	16,770
BONICA, JOHN J.	FIRST WORLD CONGRESS ON PAIN	1R13 GM22741-01	14,700
ORGANIZATION TOTAL	3	36,198	
<b>LEONARD WOOD MEMORIAL ZIP CODE 20037</b>			
HANKS, JOHN H.	ENERGETICS AND CULTIVATION OF MYCOBACTERIUM LEPRAE	5R22 AI08866-07	84,674
MORRISON, NORMAN E.	THYMOSIN IMMUNOTHERAPY OF CHEMICALLY INDUCED TUMORS	1R01 CA18265-01	29,483
ORGANIZATION TOTAL	2	114,157	
<b>NATIONAL BIOMEDICAL RESEARCH FOUNDATION ZIP CODE 20087</b>			
DAYHOFF, MARGARET O.	COMPUTER STUDY OF SEQUENCES OF AMINO ACIDS IN PROTEINS	5R01 GM08710-15	157,592
DAYHOFF, MARGARET O.	COMPUTER STUDY OF SEQUENCES OF AMINO ACIDS IN PROTEINS	5R01 GM08710-16	196,060
LEDLEY, ROBERT S.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05681-06	41,642
ORGANIZATION TOTAL	3	395,294	
<b>PAN AMERICAN HEALTH ORGANIZATION ZIP CODE 20037</b>			
ARROYAVE, GUILLERMO	AMINO ACID REQUIREMENTS OF PRESCHOOL AGE CHILDREN	5R22 AM17086-03	57,940
SCHNEIDER, ROBERTO E.	ASSESSMENT OF NUTRITIONAL LOSSES DUE TO MALABSORPTION	5R22 AM18601-02	58,050
ORGANIZATION TOTAL	2	115,990	
<b>TRINITY COLLEGE ZIP CODE 20017</b>			
SANSBURY, RICHARD V.	THE MULTIPLE-CHANNEL THEORY FOR SPATIAL VISION	1R01 EY01743-01	53,134
ORGANIZATION TOTAL	1	53,134	
<b>U.S. DEPARTMENT OF THE ARMY—WALTER REED ARMY MEDICAL CENTER ZIP CODE 20012</b>			
HOLMES, RANDALL K.	CONTROL OF BACTERIAL TOXINS BY VIRUSES AND PLASMIDS	1R22 AI14107-01	14,400
ORGANIZATION TOTAL	1	14,400	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>DIST OF COL—Continued</b>			
<b>U.S. SMITHSONIAN INSTITUTION</b>	<b>ZIP CODE 20560</b>		
HOROWITZ, DONALD L.....	ETHNIC POLITICS AND POPULATION COMPOSITION.....	5R01 HD07817-02	23,279
ORGANIZATION TOTAL	1 23,279		
<b>UNIVERSITIES RESEARCH ASSOCIATION</b>	<b>ZIP CODE 20037</b>		
COHEN, LIONEL.....	FERMILAB NUCLEON THERAPY FACILITY.....	5P01 CA18081-02	295,234
ORGANIZATION TOTAL	1 295,234		
<b>WASHINGTON HOSPITAL CENTER</b>	<b>ZIP CODE 20010</b>		
MAUGER, ANTHONY B.....	ACTINOMYCINS: CONFORMATION AND ACTIVITY.....	5R01 CA11627-10	48,048
ORGANIZATION TOTAL	1 48,048		
STATE TOTAL	182 14,049,656		
<b>FLORIDA</b>			
<b>BOCA RATON</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA ATLANTIC UNIVERSITY</b>	<b>ZIP CODE 33432</b>		
EARLY, JOHN D.....	A STATISTICAL BASIS FOR GUATEMALAN POPULATION POLICY.....	5R01 HD09489-02	10,948
ORGANIZATION TOTAL	1 10,948		
<b>CORAL GABLES</b>			
<b>UNIVERSITY OF MIAMI</b>	<b>ZIP CODE 33124</b>		
AWAD, WILLIAM M. JR.....	CHARACTERIZATION OF PROMASE ENZYMES.....	1R01 GM22468-01	67,840
CORBETT, MICHAEL D.....	APLASTIC ANEMIA AND CHLORAMPHENICOL METABOLITES.....	7R01 CA21667-01	36,387
MAN, EUGENE H.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07022-09	23,770
MORTON, JULIA F.....	REPORT ON CURRENT PLANT REMEDIES OF MIDDLE AMERICA.....	5R01 CA15408-03	17,263
ONSAGER, LARS.....	THE KINETICS OF SOLID AND LIQUID IONIC CONDUCTORS.....	2R01 GM20284-04	69,544
SIMPLICIO, JON.....	MODEL ACTIVE SITES FOR HEME-NUCLEOPHILE INTERACTIONS.....	5R01 HL13111-05	14,052
TAYLOR, BARRIE F.....	BIODEGRADATION OF PHTHALIC ACIDS AND ESTERS.....	5R01 ES00994-03	62,750
WINTERS, RAY W.....	SINGLE CELL STUDIES IN OPTIC TRACT.....	2R01 EY00701-03	44,340
ORGANIZATION TOTAL	8 335,946		
<b>DAYTONA BEACH</b>			
<b>BETHUNE-COOKMAN COLLEGE</b>	<b>ZIP CODE 32015</b>		
COPELAND, RICHARD F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	3S06 RR08119-02S1	144
COPELAND, RICHARD F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08119-03	132,883
ORGANIZATION TOTAL	2 133,027		
<b>FORT LAUDERDALE</b>			
<b>NOVA UNIVERSITY</b>	<b>ZIP CODE 33314</b>		
MENZIES, ROBERT A.....	ROLE OF CHALONES IN CANCER CHEMOTHERAPY.....	5R01 CA15837-03	50,650
MENZIES, ROBERT A.....	ROLE OF CHALONES IN CANCER CHEMOTHERAPY.....	5R01 CA15837-04	52,935
ORGANIZATION TOTAL	2 103,585		
<b>GAINESVILLE</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA</b>	<b>ZIP CODE 32611</b>		
ABRAMS, ROBERT M.....	HORMONAL CONTROL OF VAGINAL CIRCULATION.....	2R01 HD08229-03	54,968
ACHEY, PHILLIP M.....	BIOLOGICAL AND PHYSICAL ACTION OF RADIATION ON DNA.....	5R01 CA12447-06	38,437
ADAMS, CALVIN K.....	THE PHOTORECEPTOR MOSAIC IN MAN AND MONKEY.....	5R01 EY01468-02	54,449
ALDRICH, HENRY C.....	MEMBRANE STRUCTURE, CELL CONTACT AND CELL FUSION.....	5R01 GM21825-02	32,494
ALLEN, CHARLES M. JR.....	BIOSYNTHESIS OF UNDECAPRENOL CARBOHYDRATE-CARRIERS.....	1R01 GM23193-01	55,450



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>FLORIDA—Continued</b>			
ALLEN, DON L.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05728-05	30,294
AYOUB, ELIA M.....	HOST FACTORS IN THE PATHOGENESIS OF RHEUMATIC FEVER.....	9R01 HL20533-07A1	76,493
BAZER, FULLER W.....	PROGESTERONE-INDUCED PROTEINS IN THE PREGNANT UTERUS.....	5R01 HD08560-02	34,372
BERNSTEIN, JERALD J.....	REGENERATION IN THE CENTRAL NERVOUS SYSTEM.....	5R01 NS06164-11	79,433
BESCH, EMERSON L.....	DEFINITION OF ENVIRONMENTAL CONDITIONS FOR LAB ANIMALS.....	5R01 RR00942-03	68,427
BLEIWEIS, ARNOLD S.....	CELL-WALL ANTIGENS OF CARIOGENIC STREPTOCOCCI.....	5R01 DE02901-08	50,904
BLEIWEIS, ARNOLD S.....	WORKSHOP ON METHODOLOGIES FOR DETECTING CARIOGENS.....	3R13 DE04149-01S1	1,800
BLOCK, EDWARD R.....	5-HYDROXYTRYPTAMINE UPTAKE AND PULMONARY O <sub>2</sub> TOXICITY.....	1R23 HL19587-01	38,456
BOYCE, RICHARD P.....	FUNCTION OF BACTERIAL MEMBRANES IN DNA REPLICATION.....	5R01 GM19167-05	26,527
BRIGHT, ROBERT W.....	SURGICAL CORRECTION OF PARTIAL GROWTH PLATE CLOSURE.....	1R01 AM19219-01	87,653
BROOKBANK, JOHN W.....	GENE ACTIVATION IN CLEAVAGE ARRESTED EGGS.....	5R01 GM22290-02	32,023
BROWNELL, WILLIAM E.....	SINGLE-UNIT STUDIES IN THE LATERAL SUPERIOR OLIVE.....	5R01 NS12209-02	27,882
BUTLER, GEORGE B.....	SYNTHESES RELATED TO POLYMERS OF ANTICANCER ACTIVITY.....	3R01 CA06838-12S1	6,809
CARDEILHAC, PAUL T.....	METABOLIC FATE OF AFLATOXIN.....	5R01 ES00891-02	5,332
CASSIN, SIDNEY.....	FETAL AND NEONATAL PULMONARY CIRCULATION.....	5R01 HL10834-08	38,074
CATON, DONALD.....	STUDY OF FETAL GROWTH AND DEVELOPMENT.....	2R01 HD05659-06	50,237
CERUTTI, PETER A.....	REPAIR OF DNA DAMAGE IN BACTERIAL AND MAMMALIAN CELLS.....	5R01 GM18617-06	58,673
CHIOU, C Y.....	INHIBITION AND CYTOLYSIS OF NEUROBLASTOMA CELLS.....	5R01 CA17584-02	23,430
CHIOU, C Y.....	TREATMENT OF GLAUCOMA WITH AUTONOMIC DRUGS.....	1R01 EY01624-01A1	45,952
COHEN, ROBERT J.....	CYCLOC NUCLEOTIDES IN THE MODEL SYSTEM PHYCOMYCETES.....	2R01 GM19390-05	45,184
CRANDALL, CATHERINE A.....	IMMUNE RESPONSIVENESS IN MICE INFECTED WITH NEMATODES.....	5R01 AI03212-16	59,779
CRANDALL, CATHERINE A.....	IMMUNE RESPONSIVENESS IN MICE INFECTED WITH NEMATODES.....	5R01 AI03212-17	60,724
DAVIS, FRANCIS C.....	GENE EXPRESSION DURING OOGENESIS AND EMBRYOGENESIS.....	5R01 HD07659-04	26,100
DUCKWORTH, DONNA H.....	EXTRA-CHROMOSOMAL GENETIC ELEMENTS AND THE CELL SURFACE.....	2R01 AI12056-02	34,778
DUNN, BEN M.....	STRUCTURAL FACTORS IN PEPSIN-PEPSIN INHIBITOR BINDING.....	5R01 AM18865-02	32,419
DUNN, BEN M.....	QUANTITATIVE AFFINITY CHROMATOGRAPHY.....	1R01 GM22421-01	51,140
ENNEKING, WILLIAM F.....	QUANTITATION OF BONE TRANSPLANT REPAIR.....	2R01 AM15063-05	43,447
ENNEKING, WILLIAM F.....	RADICAL LOCAL RESECTION IN MUSCULOSKELETAL SARCOMA.....	5R01 CA16559-02	44,526
ENNEKING, WILLIAM F.....	RADICAL LOCAL RESECTION IN MUSCULOSKELETAL SARCOMA.....	5R01 CA16559-03	45,625
ENOCH, JAY M.....	THE ETIOLOGY OF REDUCED VISUAL FUNCTION.....	5R01 EY01418-02	126,131
ENOCH, JAY M.....	THE ETIOLOGY OF REDUCED VISUAL FUNCTION.....	5R01 EY01418-03	136,754
FELDHERR, CARL M.....	INCORPORATION OF PROTEINS BY OOCYTE NUCLEI.....	5R01 GM21531-02	17,297
FELDHERR, CARL M.....	THE FUNCTION OF THE NUCLEAR ENVELOPE.....	2R01 GM21531-03	28,634
FINGER, KENNETH F.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05573-02	20,427
FINLAYSON, BIRDWELL.....	A PHYSICAL APPROACH TO STONE FORMATION.....	5R01 AM13023-08	73,681
FISHER, WALDO R.....	STUDIES OF THE STRUCTURE OF LOW DENSITY LIPOPROTEIN.....	5R01 HL10316-11	80,796
FISHER, WALDO R.....	POLYDISPERSE LDL: STRUCTURE, METABOLISM AND FUNCTION.....	1R01 HL20391-01	73,999
FITZGERALD, CONSTANCE R.....	PHOTOCOAGULATION TREATMENT OF MACULOPATHY.....	5R01 EY01084-02	40,227
FREGLEY, MELVIN J.....	ORAL CONTRACEPTIVES AND HYPERTENSION.....	2R01 HL14526-04	58,496
FREGLEY, MELVIN J.....	ORAL CONTRACEPTIVES AND HYPERTENSION.....	5R01 HL14526-05	57,809
GABBAY, EDMOND J.....	STEREOSPECIFIC BINDING OF PROTEINS TO DNA.....	5R01 GM17503-06	30,974
GEBHARDT, BRYAN M.....	F1 HYBRID LYMPHOCYTE STIMULATION BY PARENTAL CELLS.....	5R01 AI12176-03	34,572
GEBHARDT, BRYAN M.....	PROLONGATION OF CORNEA ALLOGRAFT SURVIVAL BY ANTIBODY.....	5R01 EY01395-03	44,984
GELATT, KIRK N.....	PRIMARY GLAUCOMA.....	7R01 EY01932-01	42,410
GIBBS, CHARLES H.....	INVESTIGATION OF FUNCTIONAL MANDIBULAR MOVEMENTS.....	5R01 DE04157-03	80,692
GIFFORD, GEORGE E.....	INTERFERON AND CELL MEDIATED IMMUNITY.....	5R01 AI10900-05	57,442
GREGG, JAMES H.....	CELL SLIME MOLD INTERACTION/REGULATION/DIFFERENTIATION.....	5R01 GM10138-14	38,047
GROWMAN, RONALD R.....	HEPATIC ORGANIC ANION TRANSPORT MECHANISMS.....	5P01 GM18923-02	50,576
GURIN, SAMUEL.....	HOMARINE AND PYRIDINE CARBOXYLIC ACIDS IN CRUSTACEA.....	1R01 GM22744-01	25,361
HARRIS, JAMES O.....	STUDY OF HUMAN ALVEOLAR MACROPHAGE ELASTASE.....	5R01 HL18091-02	30,944
HENCH, LARRY L.....	STUDY OF INTERFACIAL BEHAVIOR OF BIOMATERIALS.....	5P01 GM21056-03	229,070
HOLLIER, HARRY.....	STUDY OF COMMUNICATION SCIENCES.....	5P01 NS06459-11	217,594
JACKSON, ERIC.....	SYSTEMATIC DESENSITIZATION OF DENTAL FEARS.....	5R23 DE04143-02	14,667
KALLENBACH, ERNST A.....	TRACER AND FINE STRUCTURE STUDIES OF THE ENAMEL ORGAN.....	5R01 DE02241-11	15,161
KALRA, SATYA P.....	OVARIAN STEROIDS IN THE GONADOTROPIN RELEASE MECHANISMS.....	5R01 HD08634-02	60,203
KAUFMAN, HERBERT E.....	OCULAR HERPES SIMPLEX.....	5R01 EY00007-15	93,148
KAUFMAN, HERBERT E.....	CORNEAL PRESERVATION AND KERATOPLASTY.....	5R01 EY00266-13	47,416
KAUFMAN, HERBERT E.....	STUDY OF EXTERNAL OCULAR DISEASE.....	5P50 EY00446-08	381,640
KLEIN, PAUL A.....	IMMUNOGENICITY OF MEMBRANE AND TUMOR ANTIGENS.....	2R01 CA13384-04	34,553
KLEIN, PAUL A.....	IMMUNOGENICITY OF MEMBRANE AND TUMOR ANTIGENS.....	5R01 CA13384-05	34,977

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>FLORIDA—Continued</b>			
KOLTS, BYRON E.	IMMUNOCHEMICAL STUDIES OF SECRETIN.....	1R01 AM19425-01	42,723
LAIPI, PHILIP J.	DNA POLYMERASES OF SV40 INFECTED OR TRANSFORMED CELLS.....	5R01 CA17662-02	42,177
LARKIN, LYNN H.	ROLE OF RELAXIN IN GESTATION AND PARTURITION.....	5R01 HD08552-03	33,544
LUTTGE, WILLIAM G.	HORMONES IN SEXUAL DIFFERENTIATION AND BEHAVIOR.....	5R01 HD07049-03	35,520
MANGOS, JOHN A.	STUDIES OF EXOCRINE GLAND FUNCTION IN CYSTIC FIBROSIS.....	7R01 AM19200-01	41,571
MANGOS, JOHN A.	STUDIES OF EXOCRINE GLAND FUNCTION IN CYSTIC FIBROSIS.....	5R01 AM19200-02	76,517
MAREN, THOMAS H.	SULFONAMIDES AND CARBONIC ANHYDRASE: BASIS FOR THERAPY.....	5P01 GM16934-08	286,381
MC GUIGAN, JAMES E.	IMMUNOLOGY AND DISEASES OF THE GASTROINTESTINAL TRACT.....	5R01 AM13711-07	79,726
MC GUIGAN, JAMES E.	CANCER OF THE ENDOCRINE PANCREAS.....	5R01 CA15332-03	51,128
MC KERNS, KENNETH W.	CONTRACEPTIVE REGULATION OF CORPUS LUTEUM FUNCTION.....	5R01 HD05938-05	74,810
MERIMEE, THOMAS J.	INSULIN AND HGH: SECRETION AND METABOLIC ACTIONS.....	5R01 AM18130-03	57,504
MERIMEE, THOMAS J.	PITUITARY MODULATION OF MICRO- & MACRO-VASCULAR DISEASE.....	1R01 HL19175-01	77,386
METCALF, JOSEPH F.	ULTRASTRUCTURAL STUDIES OF DISCIFORM KERATITIS.....	3R01 EY01580-01S1	9,513
METCALF, JOSEPH F.	ULTRASTRUCTURAL STUDIES OF DISCIFORM KERATITIS.....	5R01 EY01580-02	59,420
MORELAND, ALVIN F.	RESOURCE FOR INVESTIGATION OF LAB ANIMAL DISEASE.....	5P40 RR00685-05	118,095
MOSCOVICI, CARLO	SPECIFICITY OF AVIAN MYELOBLASTOSIS VIRUS.....	2R01 CA10697-10	54,859
MUNSON, JOHN B.	EYE MOVEMENT-INDUCED CHANGES IN VISUAL FUNCTION.....	5R01 EY01264-03	28,886
NEILSON, JOHN T.	IMMUNITY AND ANTIGEN CHARACTERIZATION OF FILARIASIS.....	5R22 AI10803-05	31,939
NOONAN, KENNETH D.	CONTROL OF LECTIN RECEPTOR MOBILITY.....	1R01 GM23227-01	44,285
O'BRIEN, THOMAS W.	CHARACTERIZATION OF MAMMALIAN MITOCHONDRIAL RIBOSOMES.....	5R01 GM15438-08	41,198
OLSON, GERALD A.	ADHERENCE AND ITS INHIBITION IN STREPTOCOCCUS MUTANS.....	5R01 DE04064-02	27,408
PAIGE, ARNOLD	VIBRATIONAL PATTERN OF THE PATHOLOGIC LARYNX.....	5R01 NS11790-03	88,999
PALENIK, GUS J.	STRUCTURAL STUDIES OF ANTIHISTAMINES AND ANTIBIOTICS.....	5R01 AI11825-02	39,104
PITTS, ROBERT F.	RENAL REGULATION OF BODY FLUIDS AND ELECTROLYTES.....	5R01 HL18018-02	23,493
POLACK, FRANK M.	CHANGES IN CORNEAL GRAFTS AND TISSUE.....	5R01 EY00415-08	37,014
PRESTON, JAMES F.	AMANTIN-PROTEIN CONJUGATES AS POTENTIAL INHIBITORS.....	1R01 CA19043-01	26,874
REITH, EDWARD J.	ULTRASTRUCTURE OF TOOTH DEVELOPMENT.....	5R01 DE04059-02	27,110
RHOTH, ALBERT L, JR.	BRAIN STEM SENSORY CONNECTIONS.....	2R01 NS10978-03	18,510
SATZ, PAUL	LATERALITY OF SENSORY AND MOTOR FUNCTION IN MAN.....	5R01 NS08208-11	64,567
SELMAN, KELLY	BLOCKS TO POLYSPERMY DURING MAMMALIAN FERTILIZATION.....	1R01 HD09604-01	35,045
SHANDS, JOSEPH W, JR.	ENDOTOXIN AND PATHOGENESIS OF INFECTION.....	5R01 AI07257-10	52,123
SILVERMAN, DAVID N.	MEMBRANE DIFFUSION OF BICARBONATE AND CARBON DIOXIDE.....	1R01 HL18671-01	41,780
SILVERMAN, DAVID N.	MEMBRANE DIFFUSION OF BICARBONATE AND CARBON DIOXIDE.....	5R01 HL18671-02	37,689
SISLER, HARRY H.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07021-11	78,684
SMALL, PARKER A, JR.	LOCAL IMMUNOLOGIC REACTIONS.....	5R01 AI07713-10	66,428
SMITH, RICHARD T.	CELLULAR MECHANISMS IN TUMOR-SPECIFIC IMMUNITY.....	5R01 CA15334-03	87,559
SMITH, RICHARD T.	CELLULAR MECHANISMS IN TUMOR-SPECIFIC IMMUNITY.....	5R01 CA15334-04	88,526
SMITH, RICHARD T.	ONTOGENY OF IMMUNE MECHANISMS.....	5R01 HD00384-18	90,619
SMITH, RICHARD T.	ONTOGENY OF IMMUNE MECHANISMS.....	5R01 HD00384-19	95,636
STEIN, GARY S.	REGULATION OF EXPRESSION OF RNA TUMOR VIRUSES.....	1R01 CA18874-01	51,942
STEIN, GARY S.	CONTROL OF GENE EXPRESSION BY ACIDIC NUCLEAR PROTEINS.....	5R01 GM20535-03	42,066
STETSON, CHANDLER A.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00082-14	512,518
STETSON, CHANDLER A.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05362-15	206,364
TOSKES, PHILIP P.	ROLE OF PROTEOLYTIC ENZYMES IN VITAMIN B12 ABSORPTION.....	5R01 AM17866-02	21,600
TOSKES, PHILIP P.	ROLE OF PROTEOLYTIC ENZYMES IN VITAMIN B12 ABSORPTION.....	5R01 AM17866-03	22,425
TSIBIRIS, JOHN C.	CARCINOGEN MONOOXYGENASES AND RELATED ENZYME SYSTEMS.....	5R01 CA17617-05	45,078
VAN MIEROP, LODEWYK H.	DEVELOPMENT OF HEART CONDUCTION SYSTEM AND INNERVATION.....	5R01 HL10912-11	15,206
VAN RINSVELT, HENRI A.	TRACE ELEMENT DETECTION BY ION INDUCED X-RAYS.....	5R01 GM20282-02	37,668
VIERCK, CHARLES J, JR.	SPINAL SOMESTHETIC PATHWAYS.....	5R01 NS07261-10	47,325
WELTNER, WILLIAM, JR.	BIOPHYSICAL PROPERTIES OF CELL-SURFACE CARBOHYDRATES.....	1R01 GM21920-01A1	31,286
WILLIAMS, DAVID T.	VACUUM-CELL D2 SPECTROMETER FOR MEDICAL USE.....	5R01 GM20237-02	13,821
WINEFORDNER, JAMES D.	MOLECULAR SPECTROMETRIC METHODS FOR DRUGS.....	5R01 GM11373-13	43,873
WINEFORDNER, JAMES D.	MOLECULAR SPECTROMETRIC METHODS FOR DRUGS.....	5R01 GM11373-14	49,260
WOODWARD, EDWARD R.	THE PATHOGENESIS OF GASTRIC ULCER.....	5R01 AM04178-16	36,524
WOODWARD, EDWARD R.	PHYSIOLOGY AND PATHOLOGY OF LOWER ESOPHAGEAL SPHINCTER.....	5R01 AM13544-06	42,322
YOST, WILLIAM A.	TEMPORAL SEQUENCING IN BINAURAL PROCESSING.....	2R01 NS11157-02	35,318
ZOLTIEWICZ, JOHN A.	ENZYMATIC THIAMINE COFACTOR CATALYSIS. MODEL SYSTEMS.....	5R01 AM17442-03	31,776
ORGANIZATION TOTAL	122	7,341,595	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>FLORIDA—Continued</b>			
<b>JACKSONVILLE</b>			
<b>FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES—DIVISION OF HEALTH</b>		<b>ZIP CODE 32233</b>	
PRATHER, E CHARLTON.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05553-14	26,277
ORGANIZATION TOTAL	1 26,277		
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF NORTH FLORIDA</b>		<b>ZIP CODE 32216</b>	
HUEBNER, JAY S.....	PHOTO-ELECTRIC MEMBRANE PROBES.....	1R01 GM23250-01	38,018
ORGANIZATION TOTAL	1 38,018		
<b>MIAMI</b>			
<b>PAPANICOLAOU CANCER RESEARCH INSTITUTE</b>		<b>ZIP CODE 33136</b>	
AHMAD, FAZAL.....	FATTY ACID METABOLISM IN PROPIONIC ACID BACTERIA.....	5R01 AI12033-02	15,981
AHMAD, FAZAL.....	REGULATION OF FATTY ACID BIOSYNTHESIS IN MAMMARY TUMORS.....	5R01 CA15196-03	35,828
ALTMAN, NORMAN H.....	PRODUCTION OF RATS WITH ISOLOGOUSLY TRANSPLANTED R3327.....	2R26 CA18625-02	40,573
BLOCK, RONALD E.....	CHARACTERIZATION OF BIOLOGICAL TISSUES BY N M R.....	5R01 CA13056-04	32,093
KOHEN, ELLI.....	REGULATION OF INTRA- AND INTER-CELLULAR COMMUNICATION.....	5R01 GM20866-03	28,031
LEIF, ROBERT C.....	FLOW ANALYSIS OF NORMAL AND NEOPLASTIC CELLS.....	5R01 CA13441-05	99,920
LEIF, ROBERT C.....	ELECTRON CELL VOLUME ANALYSIS.....	5R01 GM18671-04	78,646
RYAN, JAMES W.....	SYNTHESIS AND METABOLISM OF VASOACTIVE POLYPEPTIDES.....	5R01 HL15691-04	145,642
RYAN, JAMES W.....	SYNTHESIS AND METABOLISM OF VASOACTIVE POLYPEPTIDES.....	5R01 HL15691-05	152,687
RYAN, JAMES W.....	HUMORAL MEDIATORS OF PULMONARY INFLAMMATION.....	1R01 HL19764-01	106,450
RYAN, UNA S.....	CELL BIOLOGY OF THE ALVEOLAR CAPILLARY UNIT.....	5R01 HL16407-03	48,971
SCHULTZ, JULIUS.....	BIOCHEMICAL STUDIES IN CANCER.....	2R01 CA10904-08A1	64,373
SCHULTZ, JULIUS.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05690-06	67,921
ZUCKER, ROBERT M.....	BUOYANT DENSITY STUDIES ON LEUKEMIC CELLS.....	3R01 CA14774-02S1	5,501
ORGANIZATION TOTAL	14 922,617		
<b>UNIVERSITY OF MIAMI</b>		<b>ZIP CODE 33152</b>	
ADACHI, KENJI.....	STUDY OF ROLE OF CYCLIC AMP IN PATHOGENESIS OF PSORIASIS.....	5R01 AM17179-03	76,799
BARRETT, ELLEN F.....	NEUROTRANSMITTER RELEASE KINETICS.....	5R01 NS12404-02	20,773
BARRETT, JOHN N.....	MEMBRANE PROPERTIES OF MOTONEURONS.....	5R01 NS12207-02	50,016
BASSETT, ARTHUR I.....	EFFECT OF DRUGS ON DEVELOPMENT OF CARDIAC FAILURE.....	1R01 HL19044-01	72,055
BOUCEK, ROBERT J.....	STUDIES ON AGING: EFFECTS OF SEX HORMONES.....	5R01 HL17865-02	65,924
BOUCEK, ROBERT J.....	DRUG TREATMENT OF VASCULAR SCLEROPROTEIN DEFECTS.....	5R01 HL17909-02	106,317
BREW, KEITH.....	CHEMICAL STUDIES OF ENZYMES AND PROTEINS.....	3R01 GM21363-02S1	49,175
BREW, KEITH.....	CHEMICAL STUDIES OF ENZYMES AND PROTEINS.....	5R01 GM21363-03	96,231
BRICKER, DIANE D.....	LANGUAGE RESEARCH WITH YOUNG RETARDED CHILDREN.....	5R01 HD09906-02	100,950
BRICKER, NEAL S.....	UREMIA: PATHOGENESIS, EFFECTS, AND POSSIBLE PREVENTION.....	7R01 AM19822-01	356,334
BRILL, EARL.....	AROMATIC AMINE N-OXIDATION IN BLADDER CANCER.....	5R26 CA16900-02	44,473
CASWELL, ANTHONY H.....	FLUORESCENCE AND EXCITATION-CONTRACTION IN HEART.....	3R01 HL15645-03S1	3,860
CHAMBERS, EDWARD L.....	ROLE OF IONS IN ACTIVATION OF THE EGG.....	5R01 HD07213-04	32,844
CLARK, RONALD G.....	CNS CELLULAR RESPONSE TO CONTRAST VENTRICULOGRAPHY.....	5R01 GM20227-02	45,125
COLSKY, JACOB.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	3R10 CA02822-20S1	44,892
CORBETT, MICHAEL D.....	THIAMINE MEDIATED FORMATION OF HYDROXAMIC ACIDS.....	7R01 CA21668-01	16,904
COWMAN, RICHARD A.....	HUMAN SALIVA-STREPTOCOCCAL METABOLIC INTERACTIONS.....	5R01 DE04278-02	40,623
DAVID, NOBLE J.....	EXPERIMENTAL FLUORESCIN ANGIOGRAPHY.....	5R01 EY00093-10	65,804
FITZGERALD, DOROTHEA B.....	CARIOGENESIS OF PLAQUE BACTERIA IN TEST MODELS.....	5R01 DE04265-02	95,576
FLETCHER, MARY A.....	IMMUNOCHEMICAL STUDIES OF MONONUCLEOSIS ANTIBODIES.....	5R01 AM16763-05	79,129
FLYNN, JOHN T.....	RETROLENTAL FIBROPLASIA: THE EVOLUTION OF THE LESION.....	5R01 EY01236-02	75,174
FORSTER, RICHARD K.....	DIAGNOSIS AND MANAGEMENT OF FUSARIUM KERATOMYCOSIS.....	5R01 EY00674-05	52,742
GELBAND, HENRY.....	CENTER FOR STUDY OF ATHEROSCLEROSIS-AMONG CHILDREN.....	3P50 HL14141-05S1	303,571
GELBAND, HENRY.....	A PROSPECTIVE STUDY: BLOOD PRESSURE IN NEWBORN TWINS.....	1R01 HL19930-01	141,983
GLADE, PHILIP R.....	LYMPHOID CELL LINES/MEDIATORS OF CELLULAR IMMUNITY.....	5R01 AI12475-02	76,895
GLADE, PHILIP R.....	LYMPHOID CELL LINES/MEDIATORS OF CELLULAR IMMUNITY.....	5R01 AI12475-03	79,794
GOOD, RAPHAEL S.....	THE PSYCHOSOCIAL REHABILITATION OF ONCOLOGIC PATIENTS.....	5R18 CA17869-02	278,515
GREER, SHELDON B.....	THERAPY OF HERPES INFECTIONS: 5-HALO-DC AND H4U.....	5R01 AI12170-02	68,262
GREER, SHELDON B.....	THERAPY OF HERPES INFECTIONS: 5-HALO-DC AND H4U.....	5R01 AI12170-03	51,280



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>FLORIDA—Continued</b>			
GUNN, SAMUEL A.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA17912-02	104,636
HAINES, HAROLD G.	REPRESSION OF HERPES SIMPLEX VIRUS-2 REPLICATION	5R01 CA17544-02	45,653
HALBERT, SEYMOUR P.	SIGNIFICANCE OF PREGNANCY-ASSOCIATED PLASMA PROTEINS	5R01 HD05736-06	128,920
HAMASAKI, DUO I.	EFFECT OF VISUAL DEPRIVATION ON VISION	5R01 EY00376-08	70,717
HARKNESS, DONALD R.	SUPPORT FOR SICKLE CELL CENTER	5P60 HL15999-04	399,182
HEALEY, JOHN E, JR.	CANCER CONTROL OUTREACH PROGRAM DEVELOPMENT GRANT	5R18 CA17910-02	152,738
HO, REN-JYE	STUDY OF ACTION OF SYMPATHOMIMETIC AMINES	5R01 HL16671-03	122,150
HOLADAY, DUNCAN A.	METABOLISM OF VOLATILE FLUORINATED ANESTHETICS	5R01 GM16498-08	41,431
HOWELL, DAVID S.	ROLE OF PHOSPHOLIPIDS IN MINERALIZATION OF OSTEOID	5R01 AM08662-12	85,354
HOWELL, DAVID S.	ROLE OF PHOSPHOLIPIDS IN MINERALIZATION OF OSTEOID	5R01 AM08662-13	90,477
HSIA, SUNG L.	SERUM CHOLESTEROL BINDING RESERVE IN DIABETES	1R01 HL20418-01	56,526
HUIJING, FRANCISCUS	MOLECULAR BASIS AND GENETICS OF GLYCOGEN-STORAGE DISEASE	5R01 AM13359-08	46,948
JENSEN, JOERG A.	COMPLEMENT AND NATURAL ANTIBODIES IN ELASMOBRANCHS	5R01 AI10726-05	79,801
KNIGHTON, ROBERT W.	ELECTRICAL STIMULATION OF THE VERTEBRATE RETINA	5R01 EY01432-02	32,026
LEE, ERNEST Y.	PHOSPHOPROTEIN PHOSPHATASES: PROPERTIES AND REGULATION	5R01 AM18512-02	61,703
LEHOTAY, DENIS	A UNIQUE PEPTIDE INHIBITOR OF ADENYLATE CYCLASE	1R01 AM19192-01	58,681
LEMAIRE, WILLIAM J.	MECHANISM OF OVULATION	5R01 HD08747-02	65,329
LESSNER, HOWARD E.	COOPERATIVE STUDY OF CANCER	5R10 CA05641-16	117,777
LESSNER, HOWARD E.	CANCER EPIDEMIOLOGY AND THE CLINICIAN	1R13 CA18634-01	78,363
LEVY, GERALD S.	STUDIES OF MYOCARDIAL ADENYL CYCLASE	5R01 HL13715-06	57,671
LINN, MARGARET W.	HUMANISTIC ONCOLOGY: THE OMEGA EXPERIENCE	1R18 CA19550-01	92,840
LOWENSTEIN, WERNER R.	A PROGRAM ON THE ETIOLOGY AND DIAGNOSIS OF CANCER	3R01 CA14664-03S1	226,748
MACHEMER, ROBERT	VITRECTOMY THROUGH THE PARS PLANA	5R01 EY00841-05	69,728
MAGLEBY, KARL L.	MECHANISMS OF VARIABLE SYNAPTIC EFFICACY	5R01 NS10277-04	49,760
MALININ, THEODORE I.	PROSTATE CANCER TISSUE COLLECTION CENTER	5R26 CA15480-03	111,440
MARSH, JOHN M.	MECHANISMS OF GONADOTROPIN ACTION	5R01 HD03142-09	93,019
MARSH, JOHN M.	MECHANISMS OF GONADOTROPIN ACTION	5R01 HD03142-10	94,314
MARSHALL, JAMES J.	SYNTHETIC GLYCOPROTEINS	5R01 GM21258-03	29,638
MASSARO, DONALD J.	THE LUNG LINING LAYER: SYNTHESIS AND SECRETION	7R01 HL20366-01	95,620
MC AFEE, DONALD A.	METABOLIC ASPECTS OF SYNAPTIC TRANSMISSION	5R01 NS11552-03	30,466
MC CABE, MEAD M.	CELL ADHERENCE OF DENTAL PLAQUE FORMING STREPTOCOCCI	5R01 DE04321-02	56,991
MENDE, THOMAS J.	ANTICOAGULANT ACTIVITY OF IODOPEPTIDES	3R01 HL12483-06S1	2,019
MINTZ, DANIEL H.	GROWTH HORMONE SECRETION RATES	5R01 AM14106-06	92,450
MORHART, ROBERT E.	BACTERIOICINS AS POTENTIAL CARRIES CONTROL AGENTS	5R23 DE04165-02	13,537
MUENCH, KARL H.	STRUCTURE OF TRYPTOPHANYL-TRNA SYNTHETASE OF E. COLI	1R01 GM23188-01	116,005
MYERBURG, ROBERT J.	STUDIES IN SURVIVORS OF LETHAL ARRHYTHMIAS	5R01 HL18769-02	136,076
NORTON, EDWARD W.	CLINICAL STUDY OF MACULAR DISEASE	2P50 EY00338-11	111,178
NOVAK, MILAN	ADIPOSE TISSUE METABOLISM IN ABNORMAL HUMAN NEWBORNS	5R01 HD04946-05	126,869
PALMER, ROGER F.	CELLULAR STUDY OF CARDIOVASCULAR FUNCTION	5P01 HL16117-03	434,346
PALMER, ROGER F.	CELLULAR STUDY OF CARDIOVASCULAR FUNCTION	5P01 HL16117-04	411,160
PAPPER, EMANUEL M.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	2M01 RR00261-11	710,285
PAPPER, EMANUEL M.	BIOMEDICAL RESEARCH SUPPORT GRANT	5507 RR05363-15	261,305
PENNEYS, NEAL S.	CUTANEOUS INHIBITORS OF PROSTAGLANDIN SYNTHESIS	1R01 AM19079-01	46,186
RADOMSKI, JACK L.	MECHANISM OF BLADDER CANCER	5R01 CA05449-15	120,626
RADOMSKI, JACK L.	MECHANISM OF BLADDER CANCER	5R01 CA05449-16	129,806
RADOMSKI, JACK L.	ENVIRONMENTAL BLADDER CARCINOGENS	2R26 CA14927-03	86,191
REINHUTH, OSCAR M.	RESEARCH CENTER FOR CEREBRAL VASCULAR DISEASE	3P50 NS05820-10S1	33,099
REISS, ERIC	RADIOIMMUNOASSAY OF PARATHYROID HORMONE IN MAN	5R01 AM16768-05	83,465
RIBBONS, DOUGLAS W.	BIODEGRADATION OF THE PHTHALATES BY BACTERIA	5R01 ES00986-03	51,957
RIBBONS, DOUGLAS W.	ENZYMES OF AROMATIC OXIDATIONS FROM MICRO-ORGANISMS	5R01 GM20172-03	38,540
ROSOMOFF, HUBERT L.	CANCER REHABILITATION THROUGH PAIN CONTROL	1R18 CA17935-01A1	95,645
ROWE, MARC I.	SHOCK IN INFANCY: METABOLIC AND HEMODYNAMIC ASPECTS	2R01 HD04154-08	63,280
RUBIN, ROBERT W.	THE ROLE OF MICROTUBULES IN MALIGNANT TRANSFORMATION	1R01 CA19855-01	57,421
RUSSELL, LONNIE D.	SERTOLI-SERTOLI AND SERTOLI-GERM CELL INTERRELATIONS	1R01 HD10266-01	32,882
SARMIENTO, AUGUSTO	THE FUNCTION OF THE INTEROSSEOUS MEMBRANE	1R01 AM19133-01	23,458
SCHNEINBERG, PERITZ	STUDY OF CEREBRAL VASCULAR DISEASE	2P50 NS05820-11A2	408,324
SCHNEINBERG, PERITZ	TENTH PRINCETON CONFERENCE ON CEREBROVASCULAR DISEASE	5R13 NS12144-02	31,500
SCHERLAG, BENJAMIN J.	MECHANISMS OF ISCHEMIC RHYTHM DISORDERS	5R01 HL18139-02	81,427
SCHWARTZMAN, ROBERT J.	FUNCTIONAL CAPABILITIES OF THE SENSORIMOTOR CORTEX	5R01 NS12099-02	64,573
SCOTT, MARCIA S.	MEMORY IN YOUNG CHILDREN	1R01 HD09819-01	44,819



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>FLORIDA—Continued</b>			
SCOTT, WALTER A.	ORGANIZATION OF HISTONES ON SV40 AND VARIANT DNA	5R01 AI12852-02	50,594
SIGEL, MICHAEL M.	IMMUNOLOGY OF CANCER OF THE URINARY BLADDER	3R26 CA14957-03S1	57,042
SMITH, DAVID S.	STUDIES ON STRUCTURE AND FUNCTION IN EXCITABLE CELLS	5R01 NS10447-05	43,251
SMITH, ERIC E.	POLYSACCHARIDES PRODUCED BY CARIOGENIC MICRO-ORGANISMS	5R01 DE03118-06	46,985
SOMANI, PITAMBAR	CARDIOVASCULAR PHARMACOLOGY OF IONOPHORES	1R01 HL18599-01A1	84,330
THOMAS, VERA F.	KINETICS OF UPTAKE AND EXCRETION OF VAPORS IN MAN	5R01 ES01029-02	25,987
VENTURA, ARNOLDO K.	DENGUE INFECTION AND COMMUNITY HEALTH	1R22 AI13380-01	64,798
VIAMONTE, MANUEL, JR.	COOPERATIVE STUDY OF HODGKIN'S DISEASE	2R10 CA08968-09	19,274
VIAMONTE, MANUEL, JR.	EVALUATION OF VASOSPASM IN CORD INJURY BY X-RAY MEDIA	1R01 NS12779-01	48,852
VOIGT, WALTER	MECHANISM OF ANDROGEN ACTION IN PROSTATIC NEOPLASIA	5R01 CA12990-05	71,746
WEINSTEIN, GERALD D.	PATHOPHYSIOLOGY & CHEMOTHERAPY IN PSORIASIS & CANCER	5R01 AM14887-10	103,678
WHELAN, WILLIAM J.	SYNTHESIS AND STRUCTURE OF MAMMALIAN LIVER GLYCOGEN	2R01 AM12532-09	128,419
WHELAN, WILLIAM J.	THE MECHANISM OF STARCH DIGESTION IN MAMMALS	5R01 AM17733-02	49,032
WHITNEY, PHILIP L.	STRUCTURE OF HUMAN ERYTHROCYTE CARBONIC ANHYDRASE	5R01 GM20815-02	29,237
WILSON, DAVID L.	CONTROL OF PROTEIN SYNTHESIS IN THE NERVOUS SYSTEM	5R01 NS12393-02	34,659
WOESSNER, J FREDERICK, JR.	HUMAN CARTILAGE PROTEASES IN ARTHRITIS	5R01 AM16940-04	71,034
WOESSNER, J FREDERICK, JR.	TISSUE COLLAGENASE AND ITS CONTROL BY STEROIDS	5R01 HD06773-05	60,428
YUNIS, ADEL A.	PATHOGENETIC MECHANISMS IN BLOOD DISEASES	2P01 AM09001-11A1	164,269
YUNIS, ADEL A.	PANCREATIC CARCINOMA IN CONTINUOUS CULTURE	1R26 CA19182-01	71,034
ZIBOH, VINCENT A.	BIOCHEMICAL BASIS OF PROSTAGLANDIN ACTION IN THE SKIN	2R01 AM14941-04	106,489
ZUBROD, C GORDON	COMPREHENSIVE CANCER CENTER FOR THE STATE OF FLORIDA	2P30 CA14395-04	1,187,021
ZUBROD, C GORDON	CYTOKINETICS AND CHEMOTHERAPY OF HUMAN SOLID TUMORS	1P01 CA19321-01	311,443
ORGANIZATION TOTAL	111	12,170,212	
<b>MIAMI BEACH</b>			
MOUNT SINAI MEDICAL CENTER	ZIP CODE 33140		
SACKNER, MARVIN A.	VOLUMES AND COMPLIANCE OF PULMONARY CIRCULATION	3R01 HL10622-09S1	23,924
SACKNER, MARVIN A.	VOLUMES AND COMPLIANCE OF PULMONARY CIRCULATION	2R01 HL10622-10	43,207
SACKNER, MARVIN A.	MUCOCILIARY TRANSPORT MECHANISMS	5R01 HL17816-02	84,017
SACKNER, MARVIN A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05662-07	25,898
ZAIAS, NARDO	THE BIOLOGY AND PATHOPHYSIOLOGY OF NAIL DISEASES	5R01 AM16198-03	88,102
ORGANIZATION TOTAL	5	265,148	
<b>SAINT PETERSBURG</b>			
LIFE SCIENCES, INC.	ZIP CODE 33710		
NONOYAMA, MEIHAN	ONCOGENICITY OF EPSTEIN-BARR VIRUS	1R01 CA21665-01	80,144
ORGANIZATION TOTAL	1	80,144	
<b>TALLAHASSEE</b>			
STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY	ZIP CODE 32307		
SHETTY, A SUBBAYYA	ENZYMATIC DETOXIFICATION OF HYDROXYANTHRANILIC ACID	1R01 CA18817-01	36,687
TIERLIKUIS, LAMBROS P.	NUCLEOSIDE ANALOGS WITH ANTITUMOR ACTIVITY	5S06 RR08111-04	258,270
ORGANIZATION TOTAL	2	294,957	
STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY	ZIP CODE 32306		
BAKER, HOWARD D.	VERY EARLY DARK ADAPTATION FROM INTENSE BLEACHES	2R01 EY01394-02	32,051
BERKLEY, KAREN J.	CONVERGENCE OF SOMATOSENSORY PATHWAYS IN THALAMUS	5R01 NS11892-02	26,033
BERKLEY, KAREN J.	CONVERGENCE OF SOMATOSENSORY PATHWAYS IN THALAMUS	5R01 NS11892-03	25,334
BERKLEY, MARK A.	ORIENTATION SELECTIVE MECHANISMS IN VISION	5R01 EY00953-05	40,432
CHOPPIN, GREGORY R.	REGULATION OF PURINE METABOLISM	5R01 HD05544-06	70,695
DE BUSK, A GIB	CELL SURFACE FUNCTION AND CELLULAR AGING	5R01 AG00194-02	30,305
DE BUSK, A GIB	MEMBRANE TRANSPORT AND CELLULAR COMPARTMENTATION	5R01 GM17943-05	27,361
ELAM, JOHN S.	STUDY OF AXONAL GLYCOPROTEINS AND GLYCOSAMINOGLYCANS	2R01 NS11456-04	40,681
FISHER, JAMES R.	REGULATION OF PURINE METABOLISM	5R01 HD05544-05	68,781
FREEMAN, MARC E.	EXTRA-OVARIAN CONTROL OF GONADOTROPIN SECRETION	5R01 HD07711-02	39,980
FRIEDEN, EARL	AMPHIBIAN DEVELOPMENT; THYROID INDUCED METAMORPHOSIS	5R01 HD01236-21	102,686

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>FLORIDA—Continued</b>			
GRAZIADEI, PASQUALE P.	FUNCTIONAL ANATOMY OF OLFACTORY AND TASTE RECEPTORS.	5R01 NS08943-07	57,781
GREENBERG, MICHAEL J.	PHARMACOLOGY OF MOLLUSCAN HEARTS.	5R01 HL09283-12	50,286
HERZ, WERNER.	ANTITUMOR LACTONES - STUDIES IN PHYTOCHEMISTRY.	5R01 CA13121-18	69,135
HOFFER, KURT G.	CELL POPULATION KINETICS AS FACTOR IN TUMOR THERAPY.	5R01 CA13222-05	44,527
JOHNSON, ROBERT M.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.	5S07 RR07020-11	78,175
KENSHALO, DANIEL R.	PSYCHOPHYSICAL AND NEURAL RESPONSE TO THERMAL STIMULI.	2R01 NS02992-16A1	69,023
LIGHT, ROBLEY J.	HYDROXY FATTY ACID METABOLISM AND FUNCTION.	5R01 AM15150-05	32,278
LINDER, BRUNO.	ATTRACTION OF INTERMEDIATE TO LARGE MOLECULES.	1R01 GM23223-01	42,180
MANDELKERN, LEO.	CONFORMATIONAL AND OPTICAL PROPERTIES OF POLYPEPTIDES.	5R01 GM20860-02	27,486
MANN, CHARLES K.	ELECTROCHEMICAL OXIDATION OF BIOLOGICAL AMINES.	5R01 NS10528-14	41,743
MARZLUFF, WILLIAM F. JR.	CONTROL OF CELL DIVISION: AN APPROACH TO AGING.	5R01 AG00413-02	56,860
MASTERTON, R BRUCE.	ANALYSIS OF SENSORY CORTEX.	5R01 NS07726-10	54,558
REEVES, ROBERT H.	PHAGE-HOST INTERACTIONS AT THE TRANSCRIPTIONAL LEVEL.	5R01 GM21994-02	29,739
RILL, RANDOLPH L.	CHARACTERIZATION OF CHROMATIN SUBUNITS.	5R01 GM21126-02	31,175
SCHWARTZ, MARTIN A.	SYNTHESIS OF ALKALOIDAL MEDICINAL AGENTS.	5R01 GM21182-09	43,739
SMITH, JAMES C.	THE BIOLOGICAL BASIS FOR OLFACTORY BEHAVIOR.	5R01 NS11668-03	55,511
STEPHAN, FRIEDRICH K.	NEURAL CONTROL OF CIRCADIAN RHYTHMS IN BEHAVIOR.	5R01 GM21728-02	18,093
TUCKER, DON.	RELATION OF NEURAL RESPONSES TO ODOR PROPERTIES.	5R01 NS08814-07	41,971
VICKERS, THOMAS J.	TRACE ELEMENT ANALYSIS IN BIOLOGICAL SAMPLES.	5R01 GM15996-08	43,214
WALBORSKY, HARRY M.	CHIRAL FREE RADICALS AND CHIRAL SOLVATED ELECTRONS.	2R01 AG00465-18A1	40,850
WELLER, ROBERT H.	COMPONENTS OF METROPOLITAN POPULATION CHANGE.	5R01 HD09329-02	42,750
WINCHESTER, JOHN W.	TRACE ELEMENT DEPOSITION IN AMBIENT AEROSOL INHALATION.	1R01 ES01326-01	55,700
ORGANIZATION TOTAL	33	1,531,113	

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### STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF SOUTH FLORIDA ZIP CODE 33620

BAKER, CARLETON H.	SIGNIFICANCE OF PERIPHERAL VASCULAR VOLUME CHANGES.	3R01 HL14541-04S1	2,897
BLOOM, SHERMAN.	STRUCTURE-FUNCTION PATHOLOGY OF ISOLATED HEART CELLS.	5R01 HL16956-03	22,907
BYVOET, PAUL.	INTERCALATING AGENTS AS PROBES OF CHROMATIN STRUCTURE.	7R01 CA20038-01	44,194
BYVOET, PAUL.	STRANDEDNESS OF HISTONE MODIFICATIONS.	1R01 GM22971-01	15,221
BYVOET, PAUL.	STRANDEDNESS OF HISTONE MODIFICATIONS.	5R01 GM22971-02	4,800
CORY, JOSEPH G.	CYTOTOXICITY AND RIBOSOMAL RNA MATURATION.	5R01 CA14762-02	29,972
CORY, JOSEPH G.	TUMOR CELL INHIBITION BY NUCLEOTIDE ALDEHYDE ANALOGS.	5R01 CA15577-03	37,227
CORY, JOSEPH G.	RIBONUCLEOTIDE REDUCTASE AS SITE FOR ANTITUMOR DRUGS.	5R01 CA17246-02	36,604
EIKMAN, EDWARD A.	OBJECTIVE INTERPRETATION OF LIVER IMAGES.	1R01 GM22890-01	59,120
FOSSUEN, EGIL.	AUTOMATED HEMOGLOBIN ELECTROPHORESIS.	7R01 HL20947-01	62,457
GARRETT, CARLETON T.	HETEROGENEOUS RNA SEQUENCES IN LIVER NEOPLASMS.	5R01 CA15647-03	30,355
HARTMANN, ROBERT C.	CELLULAR DEFECTS IN NOCTURNAL HEMOGLOBINURIA.	2R01 HL18012-02	53,080
HESSINGER, DAVID A.	PHYSALIA VENOM: PURIFICATION, MECHANISM, TREATMENT.	1R01 ES01454-01	63,995
KELLER, RONALD K.	GLYCOPROTEIN BIOSYNTHESIS IN THE OVIDUCT.	1R01 GM23160-01	34,192
LAMBETH, DAVID O.	SYNTHESIS AND PROPERTIES OF S-ALKYLSOETHIAZOLIDINES.	5R01 GM21539-02	19,901
NESS, GENE C.	HORMONE REGULATION OF CHOLESTEROL METABOLISM IN AGING.	5R01 HL18094-02	31,287
PASCAL, ROBERT R.	GLUMERULONEPHRITIS IN LYMPHORETICULAR CANCER.	7R01 CA20884-01	52,787
POLLET, ROBERT J.	INSULAR RECEPTOR CHARACTERIZATION OF HUMAN LYMPHOCYTES.	5R01 AM18608-02	39,164
SCHIMMEL, STEVEN D.	MEMBRANE DEVELOPMENT IN NORMAL VS DYSTROPHIC MUSCLE.	1R01 NS12558-01	36,547
SCHNELLER, STEWART W.	ANALOGS OF DEAZAADENOSINE ANTINEOPLASTIC AGENTS.	5R01 CA17878-02	40,652
SHANNON, ROGER.	RESPIRATORY MUSCLE AFFERENTS IN RESPIRATORY CONTROL.	5R01 HL17715-02	26,950
SIDRANSKY, HERSCHEL.	RESPONSES OF POLYRIBOSOMES IN LIVER CANCER.	5R01 CA14156-05	54,968
SIDRANSKY, HERSCHEL.	EFFECT OF NUTRITIONAL STRESS ON CARCINOGENESIS.	1R01 CA20952-01	92,928
SMITH, DONN L.	BIOMEDICAL RESEARCH SUPPORT GRANT.	5S07 RR05749-04	48,630
SOLOMONSON, LARRY P.	NITRATE REDUCTASE: REGULATION AND PROPERTIES.	1R01 GM23407-01	46,376
TEDESCO, THOMAS A.	CHARACTERIZATION OF GALACTOSE ENZYME MUTANTS IN MAN.	1R01 AM18719-01	84,194
ORGANIZATION TOTAL	26	1,071,405	

## VERO BEACH

### FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES—FLORIDA MEDICAL ENTOMOLOGY LABORATORY

ZIP CODE 32960

BIDLINGMAYER, WILLIAM L.	MOSQUITO FLIGHT PATHS IN RELATION TO THE ENVIRONMENT.	5R01 AI11921-02	39,746
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**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>FLORIDA—Continued</b>			
KITZMILLER, JAMES B.....	GENETICS OF ANOPHELINE MOSQUITOES.....	2R01 AI12894-02	40,797
LINLEY, JOHN R.....	THE BIOLOGY OF CULICOIDES.....	5R01 AI09354-07	13,471
PROVOST, MAURICE W.....	THE NATURAL HISTORY OF MOSQUITOES.....	5R01 AI06587-12	116,287
ORGANIZATION TOTAL	4 210,301		
STATE TOTAL	333 24,535,293		
<b>GEORGIA</b>			
<b>ALBANY</b>			
UNIVERSITY SYSTEM OF GEORGIA—ALBANY STATE COLLEGE		ZIP CODE 31705	
BLACK, BILLY C.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08023-05	73,728
ORGANIZATION TOTAL	1 73,728		
<b>ATHENS</b>			
UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA		ZIP CODE 30601	
AGOSIN, MOISES.....	BIOCHEMISTRY OF THE HYDATID ORGANISMS.....	5R01 AI09865-06	24,861
AGOSIN, MOISES.....	MICROSOMAL HEMOPROTEINS IN TRYPANOSOMATIDAE.....	5R01 AI12244-02	22,315
BOWEN, JOHN M.....	PHARMACOLOGY OF NERVE-MUSCLE SYSTEMS.....	5R01 NS09087-07	14,542
CARLTON, BRUCE C.....	CIRCULAR DNA ELEMENTS IN BACILLUS MEGATERIUM.....	5R01 GM18936-05	55,353
CARR, PETER W.....	NEW METHODOLOGIES IN BIOANALYTICAL CHEMISTRY.....	5R01 GM17913-06	56,905
CHAMPNEY, W SCOTT.....	GENETICS OF E. COLI RIBOSOMAL PROTEIN BIOSYNTHESIS.....	1R01 GM22450-01	48,804
COLE, RONALD S.....	REPAIR OF CROSS-LINKED DNA IN BACTERIA AND ANIMAL CELLS.....	2R01 CA14396-04	56,426
DAMIAN, RAYMOND T.....	SCHISTOSOME IMMUNITY MECHANISMS.....	5R22 AI12065-03	58,050
DE SA, RICHARD J.....	FLAVOPROTEIN OXIDASES: ON-LINE INSTRUMENTATION.....	5R01 GM16834-08	51,173
DERVARTANIAN, DANIEL V.....	HIGH-ENERGY INTERACTIONS IN MULTI-HEME SYSTEMS.....	5R01 GM18895-05	24,320
DERVARTANIAN, DANIEL V.....	HIGH-ENERGY INTERACTIONS IN MULTI-HEME SYSTEMS.....	2R01 GM18895-06	66,978
DOUGLAS, CHARLES H.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07025-11	65,455
GILES, NORMAN H.....	GENETIC REGULATORY MECHANISMS IN NEUROSPORA.....	1R01 GM23051-01	160,504
HIMEL, CHESTER M.....	CHOLINERGIC NEURAL SYSTEMS.....	1R01 NS12471-01	44,684
JOHNSON, DAVID A.....	PROTEINASE INHIBITORS OF HUMAN LUNG AND LEUKOCYTES.....	1R23 HL19540-01	41,915
KEY, JOE L.....	RNA METABOLISM IN DEVELOPMENT AND HORMONAL REGULATION.....	2R01 CA11624-07	76,082
KUSHNER, SIDNEY R.....	A BIOCHEMICAL ANALYSIS OF GENETIC RECOMBINATION.....	5R01 GM21454-02	30,944
LANE, ROBERT H.....	IRON-SULFUR PROTEIN-FLAVOPROTEIN INTERACTIONS.....	1R01 GM22592-01A1	37,649
LANSMAN, ROBERT A.....	MAMMALIAN MITOCHONDRIAL DNA IN BACTERIAL PLASMIDS.....	1R01 GM23246-01	61,926
LEA, ARDEN O.....	ENDOCRINOLOGY OF MOSQUITO REPRODUCTION AND BEHAVIOR.....	5R01 AI09410-07	58,720
LEE, JOHN W.....	APPLICATIONS AND MECHANISMS OF BACTERIAL BIOLUMINESCENCE.....	5R01 GM19163-02	21,561
LEE, JOHN W.....	BIOLOGICAL REACTIONS OF LASER-GENERATED SINGLET OXYGEN.....	5R01 HD07714-03	32,406
LIJUNGAHL, LARS G.....	BIOCHEMISTRY OF VITAMIN B12 AND FOLIC ACID COMPOUNDS.....	5R01 AM12913-08	39,021
LIJUNGAHL, LARS G.....	BIOCHEMISTRY OF VITAMIN B12 AND FOLIC ACID COMPOUNDS.....	5R01 AM12913-09	40,536
MENDICINO, JOSEPH F.....	ENZYME INTERACTIONS IN METABOLIC REGULATION.....	5R01 AM13150-09	29,986
OWENS, WILLIAM A.....	DEVELOPMENTAL-INTEGRATIVE INVESTIGATION.....	5R01 HD04135-08	79,226
POLLACK, ROBERT H.....	SENSORY AND PERCEPTUAL PROCESSES IN THE AGED.....	1R01 AG00297-01	45,532
POLLACK, ROBERT H.....	SENSORY AND PERCEPTUAL PROCESSES IN THE AGED.....	5R01 AG00297-02	42,618
PROENZA, LUIS M.....	ELECTROPHYSIOLOGY OF RETINAL AMACRINE CELLS IN VISION.....	3R01 EY00973-03S1	1,670
PROENZA, LUIS M.....	ELECTROPHYSIOLOGY OF RETINAL CELLS IN VISION.....	2R01 EY00973-04	25,550
STAMMER, CHARLES H.....	CYCLOASPARAGINE AND CYCLOGLUTAMINE.....	5R01 CA14153-03	21,706
STAMMER, CHARLES H.....	DEHYDROPEPTIDE RENIN SUBSTRATES.....	1R01 HL17896-01A1	24,425
TRAVIS, JAMES.....	PROTEOLYTIC ENZYMES OF THE BLOOD AND PANCREAS.....	5R01 HL14778-08	29,062
VAPNEK, DANIEL.....	TRANSCRIPTION OF PLASMID DNA IN ESCHERICHIA COLI.....	2R01 GM20160-04	58,250
WAMPLER, JOHN E.....	INSTRUMENTAL METHODS AND PYRIDOXAL CATALYSIS.....	5R01 AM17006-03	20,879
WILLIAMS, WILLIAM L.....	SELECTED BIOCHEMICAL PROBLEMS IN REPRODUCTION.....	1R01 HD09864-01	86,666
ORGANIZATION TOTAL	36 1,656,700		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>GEORGIA—Continued</b>			
<b>ATLANTA</b>			
<b>ATLANTA UNIVERSITY</b>	<b>ZIP CODE 30314</b>		
LUMB, JUDITH R.	ALKALINE PHOSPHATASE IN MOUSE LEUKEMIA	1R01 CA18952-01	60,240
ORGANIZATION TOTAL	1 60,240		
<b>ATLANTA UNIVERSITY CENTER</b>	<b>ZIP CODE 30310</b>		
JOHNSON, JOE, JR.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S06 RR08006-05	762,660
ORGANIZATION TOTAL	1 762,660		
<b>EMORY UNIVERSITY</b>	<b>ZIP CODE 30322</b>		
BARTOLUCCI, ALFRED A.	STATISTICAL SERVICES FOR COOPERATIVE STUDY GROUP	5R10 CA11263-08	210,310
BASMAJIAN, JOHN V.	BIOFEEDBACK SHAPING OF RELAXATION IN SPASTIC PATIENTS	5R01 NS12280-02	52,676
CAMPBELL, WALLACE G, JR.	PATHOLOGY OF HYPERTENSIVE-ASSOCIATED ARTERITIS	1R01 HL19539-01	66,167
CAVANAGH, H DWIGHT	BIOCHEMICAL CONTROL OF GROWTH IN CORNEAL EPITHELIUM	1R01 EY01920-01	91,960
DANNER, DEAN J.	BRANCHED-CHAIN ALPHA KETOACID METABOLISM	5R01 HD08388-02	49,856
DEFELICE, LOUIS J.	INTRODUCTION TO MEMBRANE NOISE	5R01 LM02505-02	14,849
DEHAAN, ROBERT L.	DIFFERENTIATION OF THE HEART-CELL MEMBRANE	5R01 HL16567-02	91,456
DEHAAN, ROBERT L.	ELECTRICAL COUPLING AND CARDIAC FIBRILLATION	5R01 HL17827-02	63,976
DI GIROLAMO, MARIO	ADIPOSE TISSUE CELLULARITY AND FUNCTIONS	5R01 AM13940-06	33,651
DI GIROLAMO, MARIO	CONTROL MECHANISMS OF GLUCOSE METABOLISM IN FAT CELLS	5R01 AM17403-03	32,811
EAMES, WILMER B.	A CLINICAL STUDY OF DENTAL MATERIALS AND TECHNIQUES	5R01 DE03504-08	55,569
EGAN, ROBERT L.	DIAGNOSTIC BREAST CANCER - HIGH RISK FACTORS	2R01 CA14712-03	153,768
FARAJ, BAHJAT A.	ANTIBODIES TO DOPAMINE AND NOREPINEPHRINE	1R01 GM22472-01	28,168
FINNERTY, VICTORIA M.	REGULATION OF GENE EXPRESSION IN DROSOPHILA	7R01 GM23736-01	50,257
FRTZ, ROBERT B.	NUCLEAR PROTEINS AND MALIGNANCY	5R01 CA17528-02	32,835
FRTZ, ROBERT B.	IMMUNE FUNCTION IN EAE	2R01 NS10721-04	49,623
FULLER, ELLEN O.	SYMPATHETIC RESPONSES OF THE UTERINE CIRCULATION	5R01 HD08477-06	41,700
FULLER, ELLEN O.	EFFECT OF TRAINING-DETRAINING ON THE RAT HEART	1R01 HL16420-01A1	72,656
GLAZER, ROBERT I.	CARCINOGEN INTERACTIONS IN REGENERATING LIVER	5R01 CA14162-03	22,349
GRAHAM, CHARLES E.	CARCINOGENIC ACTION OF ESTROGENS IN PRIMATES	5R01 CA15656-02	44,527
GROTH, DONALD P.	NUCLEIC ACID STUDIES IN CANCER CHEMOTHERAPY	5R01 CA03528-19	42,163
HARRIS, JANE E.	REGULATION OF CATECHOLAMINE SYNTHESIS BY CYCLIC AMP	5R01 NS12288-02	34,180
HERSEY, STEPHEN J.	INTRACELLULAR REACTIONS IN GASTRIC MUCOSA	5R01 AM14752-06	37,551
HUGULEY, CHARLES M, JR.	COOPERATIVE STUDY OF CANCER	5R10 CA03227-20	176,580
HUGULEY, CHARLES M, JR.	STATISTICAL SERVICES FOR COOPERATIVE STUDY GROUP	3R10 CA11263-07S1	54,989
HUGULEY, CHARLES M, JR.	CANCER CENTER SUPPORT GRANT (MULTIDISCIPLINARY)	5P30 CA16255-02	364,029
HUGULEY, CHARLES M, JR.	CLINICAL CANCER EDUCATION PROGRAM (GENERAL)	2R25 CA17998-02	169,457
HUMPHREY, DONALD R.	CORTICAL NEURONAL MECHANISMS OF MOTOR CONTROL	5R01 NS10183-05	50,694
HUNT, DALE E.	THE UPTAKE OF ACTINOBOLIN BY COMPONENTS OF ENAMEL	1R01 DE04581-01	30,014
HUNT, LINDSAY M.	DENTAL ANESTHESIA: A PSYCHOPHYSIOLOGICAL EVALUATION	5R01 DE04003-02	42,943
HUNT, LINDSAY M.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05308-15	47,835
JACKSON, RICHARD T.	BLOOD FLOW CHANGES IN OTIC & NASAL TISSUE	5R01 NS09570-12	81,694
JOHNSON, LEWIS D.	STUDIES OF EPITHELIAL BASEMENT MEMBRANE COMPONENTS	5R01 CA14797-03	44,322
KANN, HERBERT E.	ANTINEOPLASTIC DRUGS: MOLECULAR PHARMACOLOGIC STUDIES	5R01 CA16620-02	46,261
KIBLER, ROBERT F.	STUDIES IN DEMYELINATING DISEASES	5P50 NS11418-03	242,965
KOSTYO, JACK L.	ANABOLIC ACTIONS OF ADENOPHYOPHYSEAL HORMONES	5R01 AM12782-09	26,191
KOSTYO, JACK L.	GROWTH HORMONE: STRUCTURE-FUNCTION RELATIONSHIPS	5P01 HD04485-06	134,766
KUCK, JOHN F, JR.	LENS METABOLISM IN NORMAL AND PRECATARACTOUS STATES	5R01 EY00260-13	62,101
KUCK, JOHN F, JR.	LENS METABOLISM IN NORMAL AND PRECATARACTOUS STATES	2R01 EY00260-14	76,125
KUO, JYH-FA	MECHANISM AND ROLE OF CYCLIC GMP IN HEART	2R01 HL15696-04	77,402
LERMAN, SIDNEY.	LENS PROTEINS & FLUORESCENCE: IN VIVO & IN VITRO STUDY	5R01 EY01575-02	87,480
LESTER, CHARLES T.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07023-11	80,364
LETBETTER, WILLIAM D.	SPECIFIC I $\alpha$ -ALPHA ORGANIZATION INTRACELLULAR STUDY	5R01 NS09735-05	27,136
LETBETTER, WILLIAM D.	SPECIFIC I $\alpha$ -ALPHA ORGANIZATION INTRACELLULAR STUDY	5R01 NS09735-06	27,548
LETBETTER, WILLIAM D.	ANATOMICAL BASIS OF SPINAL SENSORY-MOTOR ORGANIZATION	5R01 NS11949-02	23,390
LETBETTER, WILLIAM D.	ANATOMICAL BASIS OF SPINAL SENSORY-MOTOR ORGANIZATION	5R01 NS11949-03	23,306
LYON, JOHN B, JR.	ROLE OF VITAMIN B6 IN METABOLISM	5R01 AM03524-16	32,442
MANDELL, LEON	NMR SPECTROSCOPY OF BIOLOGICALLY IMPORTANT COMPOUNDS	5R01 GM10848-19	44,621



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>GEORGIA—Continued</b>			
MANDELL, LEON.....	NMR SPECTROSCOPY OF BIOLOGICALLY IMPORTANT COMPOUNDS.....	2R01 GM10848-20	70,637
MANNING, JOHN W.....	INTEGRATED CONTROL OF CARDIOVASCULAR ACTIVITY.....	5R01 HL16648-14	53,589
MANOCHA, SOHAN L.....	PROTEIN MALNUTRITION AND PRENATAL ALTERATION OF BRAIN.....	5R22 HD06087-02	33,498
MARTIN, DAVID E.....	ARTIFICIAL BREEDING OF CHIMPANZEES.....	1R01 RR00992-01	28,283
MENGER, FREDRIC M.....	HYDROCARBON-WATER CONTACT, A BIOORGANIC APPROACH.....	5R01 GM20336-03	22,961
MENGER, FREDRIC M.....	INVESTIGATION OF BIO-ORGANIC SYSTEMS BY DYNAMIC NMR.....	5R01 GM21457-02	36,050
MILLS, JOHN B, III.....	BIOCHEMISTRY OF PROLACTIN ACTIVITY.....	5R01 HD08230-03	33,722
MYERS, ORIE E, JR.....	SUPPORT FOR YERKES REGIONAL PRIMATE RESEARCH CENTER.....	2P40 RR00165-16	1,730,998
NAHMIAS, ANDRE J.....	RELATION OF HERPES SIMPLEX VIRUSES TO HUMAN CANCERS.....	5R01 CA16806-02	42,338
NAHMIAS, ANDRE J.....	IMMUNOLOGY OF ORAL HERPES SIMPLEX VIRUS-1 INFECTION.....	5R01 DE03924-03	57,250
NEILL, DARRYL B.....	BEHAVIORAL CORRELATES OF STRIATAL DOPAMINE.....	5R01 NS1138-04	16,647
NEILL, JIMMY D.....	THE PHYSIOLOGIC CONTROL OF PROLACTIN SECRETION.....	5R01 HD04312-08	70,654
NEILL, JIMMY D.....	GONADOTROPIN SECRETION DURING LACTATION IN THE MONKEY.....	2R01 HD07066-04	94,249
NEILL, JIMMY D.....	GONADOTROPIN SECRETION DURING LACTATION IN THE MONKEY.....	5R01 HD07066-05	97,386
NOE, BRYAN D.....	ROLE OF PROGLUCAGON IN GLUCAGON BIOSYNTHESIS.....	5R01 AM16921-02	20,227
NUTTER, DONALD O.....	CIRCULATORY REGULATION DURING STATIC MUSCULAR EXERCISE.....	5R01 HL14904-03	43,869
O'STEEN, WENDALL K.....	REPRODUCTIVE HORMONES AND RETINAL DEGENERATION.....	5R01 EY01566-02	34,344
PERACCHIO, ADRIAN A.....	TELEMETRIC STUDY OF BEHAVIOR.....	5R01 NS09688-05	41,738
PERACCHIO, ADRIAN A.....	TELEMETRIC STUDY OF BEHAVIOR.....	5R01 NS09688-06	47,017
POOLER, JOHN P.....	PHOTOCHEMICAL MODIFICATION OF EXCITABLE MEMBRANES.....	2R01 NS09040-07	52,578
PREDDY, JOHN R.....	ESTROGENS AND THE FLUID RETENTION OF HEPATIC CIRRHOSIS.....	5R01 AM13468-07	61,634
PREDDY, JOHN R.....	ESTROGENS AND THE FLUID RETENTION OF HEART FAILURE.....	5R01 HL16394-02	66,747
PRIEST, JEAN H.....	DERMATOGLYPHICS AND CLINICAL DISEASE.....	5R01 GM19268-03	24,786
PRIEST, ROBERT E.....	PATHOLOGIC SYNTHESIS OF COLLAGEN.....	5R01 AM16127-06	49,012
PRUITT, ALBERT.....	HUMAN DRUG METABOLISM AND TOXICOLOGY.....	5P50 GM14270-10	469,758
REICHERT, LEO E, JR.....	TESTICULAR RECEPTORS OF FOLLICLE-STIMULATING HORMONE.....	5R01 HD08228-03	66,050
RICHARDSON, ARTHUR P.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00039-16	670,958
RICHARDSON, ARTHUR P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05364-15	238,038
RINARD, GILBERT A.....	HORMONAL CONTROL OF TRACHEOBRONCHIAL CYCLIC AMP.....	1R01 HL19115-01	55,206
ROSE, JAMES D.....	ELECTROPHYSIOLOGY OF THE SENSORY SYSTEM.....	5R01 NS12260-03	5,508
RUDMAN, DANIEL.....	PITUITARY ADIPOKINETIC SUBSTANCES.....	5R01 AM13129-09	109,336
RUDMAN, DANIEL.....	PITUITARY ADIPOKINETIC SUBSTANCES.....	2R01 AM13129-10	129,444
RUDMAN, DANIEL.....	ABNORMAL METABOLISM OF CANCER PATIENTS.....	5R01 CA12646-05	105,966
RUMBAUGH, DUANE M.....	LANGUAGE FORMATION STUDIES.....	5P01 HD06016-06	193,999
SCOTT, JUNE R.....	LYSOGENY AND BACTERIOPHAGE P1.....	2R01 CA11673-07	72,070
SEERY, VIRGINIA L.....	STRUCTURE-FUNCTION STUDIES ON GLYCOGEN PHOSPHORYLASE.....	5R01 AM18527-02	34,327
SGOUTAS, DEMETRIOS S.....	FUNCTION OF FATTY ACID ISOMERS IN SERUM COMPONENTS.....	5R01 HL13980-04	39,184
SHAPIRA, RAYMOND.....	STRUCTURE, METABOLISM, AND FUNCTION OF MYELIN PROTEINS.....	5R01 NS08278-08	67,096
SHEAR, CHARLES R.....	POSTEMBRYONIC STRIATED MUSCLE GROWTH.....	5R01 AM18385-02	11,172
SMITH, P DENNIS.....	ENVIRONMENTAL MUTAGENESIS AND DNA REPAIR.....	5R01 ES01101-02	30,214
SMITH, P DENNIS.....	RECOMBINATION PROFICIENCY IN DROSOPHILA MELANOGASTER.....	5R01 GM20361-03	36,018
TIGGES, JOHANNES W.....	THE EFFERENT FIBERS OF THE VISUAL CORTICES.....	5R01 EY00638-05	35,752
TROWBRIDGE, CLARENCE G.....	CALORIMETRY OF ENZYME-LIGAND INTERACTIONS.....	5R01 GM21417-02	32,355
VOGLER, WILLIAM R.....	LEUKOCYTE FUSIONS AND IMMUNOTHERAPY IN LEUKEMIA.....	5R01 CA14864-02	45,256
WALTZMAN, MORTON B.....	METABOLIC SYSTEMS IN AQUEOUS HUMOR DYNAMICS.....	5R01 EY00243-13	53,513
WALDRON, CHARLES A.....	SUPPORT FOR CLINICAL CANCER EDUCATION-DENTAL.....	1R25 CA19253-01	34,977
WARREN, W DEAN.....	CIRRHOSIS SHUNT SURGERY, AND NITROGEN METABOLISM.....	5R01 AM15736-05	124,722
WARREN, W DEAN.....	CIRRHOSIS SHUNT SURGERY, AND NITROGEN METABOLISM.....	5R01 AM15736-06	129,183
WATERSON, ROBERT M.....	STRUCTURE-FUNCTION RELATIONSHIPS OF PROTEINS.....	5R01 GM22034-02	40,491
WHITE, JOHN F.....	GUT SUGAR TRANSPORT: ELECTROPHYSIOLOGY AND ENERGETICS.....	5R01 AM17361-03	20,512
WILHELM, ALFRED E.....	PRODUCTION OF PITUITARY HORMONES FOR USE IN RESEARCH.....	5R01 AM03598-17	221,944
WILHELM, ALFRED E.....	PRODUCTION OF PITUITARY HORMONES FOR USE IN RESEARCH.....	5R01 AM03598-18	204,756
WILHELM, ALFRED E.....	STUDIES ON ANTERIOR PITUITARY HORMONES.....	5R01 HD01231-25	59,975
WILLIS, ISAAC.....	MECHANISM AND PREVENTION OF 'PHOTOAugMENTATION'.....	5R01 CA17555-02	41,413
WOODS, WENDELL D.....	BIOCHEMICAL REGULATION IN OCULAR TISSUES.....	5R01 EY00945-05	77,615
YOUNG, LEONA G.....	MAMMALIAN SPERMATOZOAN MOTILITY.....	2R01 HD06491-04A1	35,395
ORGANIZATION TOTAL	104	9,770,110	
<b>MOREHOUSE COLLEGE ZIP CODE 30314</b>			
HALL, JOHN H, JR.....	THEORETICAL STUDIES OF BIOLOGICALLY-RELATED MOLECULES.....	1R01 GM22658-01	20,615

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>GEORGIA—Continued</b>			
ORGANIZATION TOTAL	1	20,615	
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA INSTITUTE OF TECHNOLOGY ZIP CODE 30332</b>			
BROYDE, SUSE B.....	MOLECULAR CONFORMATIONS OF DNA AND RNA SUBUNITS.....	1R01 GM22765-01	40,179
BURGESS, EDWARD M.....	THE CHEMISTRY OF N-SULFONYLAMINES.....	5R01 GM12672-08	49,475
CAINE, DRURY S., III.....	PHOTOCHEMICAL SYNTHESIS OF SESQUITERPENES.....	5R01 CA12193-09	52,101
CRENSHAW, JOHN W., JR.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07024-11	48,929
FELTON, RONALD H.....	PORPHYRIN IONS AND RADICALS IN METABOLIC PROCESSES.....	5R01 AM14344-07	60,138
GIDDENS, DON P.....	EFFECT OF POLYMER ADDITIVES ON TURBULENT BLOOD FLOW.....	5R01 HL15519-04	70,077
HOUSE, HERBERT O.....	ENHANCING THE SPECIFICITY OF SYNTHETIC PROCEDURES.....	5R01 GM20197-06	95,131
MACKIE, PAUL E.....	LOCATION AND STRUCTURAL ROLE OF WATER IN TOOTH ENAMEL.....	5R01 DE04151-02	53,426
MAREK, MIROSLAV.....	EFFECT OF LOCALIZED CORROSION ON DENTAL AMALGAMS.....	2R01 DE03601-04	33,518
POWERS, JAMES C.....	X-RAY STUDY OF ENZYME AND SMALL MOLECULE INTERACTIONS.....	5R01 GM18292-05	32,780
POWERS, JAMES C.....	SYNTHETIC PROTEASE INHIBITORS.....	1R01 HL18679-01	63,534
POWERS, JAMES C.....	SYNTHETIC PROTEASE INHIBITORS.....	5R01 HL18679-02	64,761
SMITH, ANDERSON D.....	INTERACTION BETWEEN HUMAN AGING AND MEMORY.....	5R01 AG00445-04	17,957
SMITH, ANDERSON D.....	INTERACTION BETWEEN HUMAN AGING AND MEMORY.....	2R01 AG00445-05	22,438
YOUNG, ROBERT A.....	TOOTH ENAMEL APATITE AT THE ATOMIC LEVEL.....	5R01 DE01912-13	92,307
YU, NAI-TENG.....	COMPARATIVE RAMAN STUDIES OF HUMAN AND ANIMAL LENSES.....	1R01 EY01746-01	26,180
YU, NAI-TENG.....	LASER-EXCITED RAMAN SPECTROSCOPY OF BIOPOLYMERS.....	5R01 GM18894-05	34,079
YU, NAI-TENG.....	LASER-EXCITED RAMAN SPECTROSCOPY OF BIOPOLYMERS.....	5R01 GM18894-06	37,021
ZALKOW, LEON H.....	THE ANTITUMOR AGENT OF ALOPAPPUS HETEROPHYLLUS.....	1R01 CA18819-01	62,723
ZALKOW, LEON H.....	CARCINOGENIC PLANTS OF THE DEAD SEA AREA.....	1R01 CA19946-01	39,544
ORGANIZATION TOTAL	20	996,298	
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA STATE UNIVERSITY ZIP CODE 30303</b>			
CHERNIAK, ROBERT.....	THE COMMON ANTIGEN OF CLOSTRIDIUM PERFRINGENS.....	5R01 AI12540-02	10,663
ORGANIZATION TOTAL	1	10,663	
<b>AUGUSTA</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA ZIP CODE 30902</b>			
ABDEL-LATIF, ATA A.....	AMINE NEUROTRANSMITTERS: LIPID & PROTEIN P04 TURNOVER.....	5R01 NS07876-07	42,154
ABDEL-LATIF, ATA A.....	AMINE NEUROTRANSMITTERS: LIPID & PROTEIN P04 TURNOVER.....	5R01 NS07876-08	43,829
ALLEN, MARSHALL B., JR.....	ISOLATED PITUITARY RESPONSE TO LHRH AND ESTROGENS.....	5R01 HD09445-02	37,375
BHALLA, VINOD K.....	INTERACTION OF GONADOTROPIN WITH TESTIS.....	1R01 HD08910-01A2	53,250
BOINEAU, JOHN P.....	DELAYED & ASYMMETRIC VENTRICULAR CONDUCTION MECHANISMS.....	5R01 HL18398-02	57,010
BULKACZ, JAIME.....	MUTANT GLUCOSYL TRANSFERASES OF STREPTOCOCCUS MUTANS.....	5R23 DE03937-03	7,500
FAIRHURST, CARL W.....	BONDING OF PORCELAIN TO SEMI- AND NON-PRECIOUS METALS.....	5R01 DE04252-02	39,844
FELDMAN, ELAINE B.....	X-IRRADIATION, BILE SALTS AND INTESTINAL TRANSPORT.....	5R01 AM18406-02	39,002
FELDMAN, ELAINE B.....	FATTY ACIDS AND CHOLESTEROL TRANSPORT.....	1R01 HL18636-01	22,814
GARVER, FREDERICK A.....	STRUCTURAL ANALYSES OF Y-HEAVY CHAIN-DISEASE PROTEINS.....	5R01 CA15215-02	27,747
GELFANT, SEYMOUR.....	ROLE OF IMMUNOCYTES AND IMMUNOSUPPRESSANTS IN AGING.....	5R01 AG00460-03	46,455
GREEN, KEITH.....	ROLE OF DRUGS ON THE COMPONENTS OF AQUEOUS FORMATION.....	1R01 EY01329-01A1	77,669
GREEN, KEITH.....	ION AND WATER MOVEMENT IN OCULAR TISSUES.....	2R01 EY01413-03	60,026
HALL, MARK R.....	ROLE OF HISTONES IN ONCOGENIC DNA VIRUS REPLICATION.....	5R01 CA17167-02	31,450
HOWARD, EUGENE F.....	LOW MOLECULAR WEIGHT NUCLEAR RNA.....	5R01 CA13634-02	25,995
HOWARD, EUGENE F.....	MAMMARY CARCINOGENESIS: IN MOUSE AND MAN.....	5P01 CA17059-02	223,130
HUISMAN, TITUS H.....	INHOMOGENEITY OF HEMOGLOBIN TYPES.....	5R01 HL05168-17	108,387
HUISMAN, TITUS H.....	COMPREHENSIVE SICKLE CELL CENTER.....	5P60 HL15158-05	760,186
HULL, DAVID S.....	OPHTHALMIC MEDICATIONS AND THE CORNEAL ENDOTHELIUM.....	1R23 EY01654-01	8,183
HUMPHRIES, ARTHUR L., JR.....	STORAGE OF KIDNEY BY HYPOTHERMIA AND PERFUSION.....	2R01 GM08472-15	45,725
JELENKO, CARL, III.....	CHEMICAL EFFECTS OF BURNING OF SKIN.....	5R01 GM16973-07	78,200
KAROW, ARMAND M., JR.....	CRYOPRESERVATION OF RABBIT KIDNEYS.....	5R01 AM17816-02	37,014
KAROW, ARMAND M., JR.....	PANCREAS ISLET CELLS PRESERVED TO TRANSPLANTATION.....	1R01 AM19013-01	33,650
KOLBECK, RALPH C.....	MYOCARDIAL SUBCELLULAR LOCALIZATION OF CALCIUM.....	5R01 HL16710-02	45,105
LAPP, DAVID F.....	TREHALOSE METABOLISM IN THE PARASITIC NEMATODE ASCARIS.....	5R01 AI11732-03	16,077
MAHESH, VIRENDRA B.....	BIOSYNTHESIS OF STEROIDS IN THE POLYCYSTIC OVARY.....	5R01 HD04626-15	53,319
MATHENY, JAMES L.....	ADRENERGIC RECEPTOR INTERCONVERSION IN HYPERTENSION.....	5R01 HL18063-02	2,650

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>GEORGIA—Continued</b>			
MC KINNEY, RALPH V. JR.....	GROWING CAPILLARIES: BASAL LAMINA AND PERMEABILITY.....	5R01 DE03486-05	15,826
MORETZ, WILLIAM H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05365-15	133,446
MULDOON, THOMAS G.....	FACTORS CONTROLLING STEROID HORMONE RECEPTOR ACTIVITY.....	5R01 AM17650-03	25,409
OKABE, TORU.....	AMALGAMATION KINETICS ON AG-SN (OX) ALLOYS.....	5R01 DE04262-02	51,531
PASHLEY, DAVID H.....	PERMEABILITY CHARACTERISTICS OF DENTIN.....	2R01 DE03780-04	23,140
PUCHTLER, HOLDE.....	HISTOCHEMISTRY OF EARLY ARTERIOSCLEROTIC LESIONS.....	5R01 HL12147-09	54,741
ROSENQUIST, THOMAS H.....	CONNECTIVE TISSUE ORGANIZATION IN LUNG ALVEOLAR WALLS.....	1R23 HL19542-01	33,161
SCHUSTER, GEORGE S.....	VIRUS INFECTION OF SALIVARY GLANDS.....	5R01 DE03254-05	8,000
SMITH, LINDA L.....	IMMUNOGLOBULINS ASSOCIATED WITH SERUM HYPERVISCOSITY.....	1R01 HL19456-01	33,504
WEBSTER, PAUL D. III.....	CONTROL OF PANCREATIC DUCTAL AND ACINAR CELL FUNCTION.....	5R01 AM13131-09	87,395
WHITFORD, GARY M.....	INFLUENCE OF ACID-BASE STATUS ON FLUORIDE METABOLISM.....	1R23 DE04332-01	11,069
ORGANIZATION TOTAL	38	2,500,968	
<b>CLAXTON</b>			
<b>EVANS COUNTY HEALTH DEPARTMENT ZIP CODE 30417</b>			
HAMES, CURTIS G.....	EPIDEMIOLOGY OF ATHEROSCLEROSIS IN EVANS COUNTY.....	5R01 HL03341-19	48,783
HAMES, CURTIS G.....	EPIDEMIOLOGY OF ATHEROSCLEROSIS IN EVANS CO GEORGIA.....	5R01 HL03341-20	48,627
ORGANIZATION TOTAL	2	97,410	
<b>FORT VALLEY</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—FORT VALLEY STATE COLLEGE ZIP CODE 31030</b>			
BLACK, DAN T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08084-02	81,561
BLACK, DAN T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08084-03	37,618
ORGANIZATION TOTAL	2	119,179	
<b>SAVANNAH</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—SAVANNAH STATE COLLEGE ZIP CODE 31404</b>			
EMEY, C O.....	BIOMEDICAL RESEARCH: A MULTI-DISCIPLINARY APPROACH.....	3S06 RR08144-01S1	126
EMEY, C O.....	BIOMEDICAL RESEARCH: A MULTI-DISCIPLINARY APPROACH.....	5S06 RR08144-02	52,262
ORGANIZATION TOTAL	2	52,388	
<b>STATESBORO</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA SOUTHERN COLLEGE ZIP CODE 30450</b>			
OLIVER, JAMES H. JR.....	REPRODUCTION IN TICKS AND MITES.....	5R01 AI09556-07	38,566
ORGANIZATION TOTAL	1	38,566	
STATE TOTAL	210	16,159,525	
<b>HAWAII</b>			
<b>HILO</b>			
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT HILO ZIP CODE 96720</b>			
SOOD, SATYA P.....	GROWTH CONTROL OF CELLS, FUNDAMENTAL BIOLOGIC STUDIES.....	5S06 RR08073-05	129,893
ORGANIZATION TOTAL	1	129,893	
<b>HONOLULU</b>			
<b>BERNICE P. BISHOP MUSEUM ZIP CODE 96819</b>			
RADOVSKY, FRANK J.....	ECTOPARASITES OF THE PAPUAN SUBREGION.....	5R01 AI11482-03	21,119
STEFFAN, WALLACE A.....	BIOSYSTEMATICS OF TOXORHYNCHITES.....	1R01 AI21168-01A2	54,407
ORGANIZATION TOTAL	2	75,526	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>HAWAII—Continued</b>			
<b>EAST-WEST CENTER</b>	<b>ZIP CODE 96822</b>		
FEENEY, GRIFFITH	THE INFLUENCE OF CHILD MORTALITY ON FERTILITY	1R01 HD09927-01	19,346
KUNSTADTER, PETER	HEALTH CONSEQUENCES OF FERTILITY OF THAI URBAN POOR	1R01 HD09972-01	43,130
PALMORE, JAMES A, JR.	REGRESSION ESTIMATION OF FERTILITY RATES	5R01 HD09051-02	15,554
ORGANIZATION TOTAL	3 78,030		
<b>QUEEN'S MEDICAL CENTER</b>	<b>ZIP CODE 96813</b>		
MC NAMARA, JOSEPH J.	MYOCARDIAL VIABILITY AFTER CORONARY REPERFUSION	5R01 HL14571-04	49,258
ORGANIZATION TOTAL	1 49,258		
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA</b>	<b>ZIP CODE 96822</b>		
ADAMS, BRUCE G.	CATABOLITE REPRESSION OF THE GALACTOSE SYSTEM	3R01 AM15325-04S1	743
ADAMS, BRUCE G.	CATABOLITE REPRESSION OF THE GALACTOSE SYSTEM	5R01 AM15325-05	52,487
ALLEN, RICHARD D.	MICROTUBULAR SYSTEMS	5R01 GM17991-05	50,277
ASHTON, GEOFFREY C.	GENETIC AND ENVIRONMENTAL BASES OF HUMAN COGNITION	5R01 HD06669-04	289,274
ASHTON, GEOFFREY C.	GENETIC AND ENVIRONMENTAL BASES OF HUMAN COGNITION	5R01 HD06669-05	255,629
BENEDICT, ALBERT A.	IMMUNOGLOBULINS AND IMMUNE RESPONSES	5R01 AI05660-13	55,218
BRYANT, GILLIAN D.	THE RADIOIMMUNOASSAY OF RELAXIN AND ITS APPLICATIONS	5R01 HD06633-04	35,452
CHAVE, KEITH E.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07026-11	79,114
CHUNG, CHIN S.	POPULATION STUDIES OF ORAL DISEASES IN HAWAII	5R01 DE02646-09	46,970
COOKE, IAN M.	CARDIAC PACEMAKER: BIOPHYSICAL INTEGRATIVE MECHANISMS	5R01 NS11808-02	40,460
CROWELL, DAVID H.	NEONATAL NEUROPHYSIOLOGY AND METABOLIC DERANGEMENT	1R01 HD09981-01	119,326
FURUSAWA, EIICHI	STUDIES OF NARCISSUS ALKALOID WITH ANTILEUKEMIC ACTIVITY	5R01 CA12733-05	51,904
GIBBONS, IAN R.	STRUCTURAL BASIS OF SPERMATOZOAN MOTILITY	5R01 HD06565-09	91,867
GIBBONS, IAN R.	STRUCTURAL BASIS OF SPERMATOZOAN MOTILITY	5R01 HD06565-10	97,140
GIBBONS, IAN R.	ANTIBODIES TO FLAGELLAR PROTEINS	1R01 HD09707-01	41,089
GIBBONS, IAN R.	ANTIBODIES TO FLAGELLAR PROTEINS	5R01 HD09707-02	36,094
GIBBONS, IAN R.	PROPERTIES OF DYNEIN ISOENZYMES	1R01 HD10002-01	45,545
GILLARY, HOWARD L.	VISUAL MECHANISMS IN A REGENERATING GASTROPOD RETINA	5R01 EY01531-02	24,789
GREENWOOD, FREDRICK C.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	3S06 RR08125-02S1	622
GREENWOOD, FREDRICK C.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S06 RR08125-03	135,137
GUILLORY, RICHARD J.	MEMBRANE INTERACTIONS IN ENERGY LINKED REACTIONS	2R01 GM19269-04	44,279
HALSTEAD, SCOTT B.	INFECTION ENHANCEMENT - AN EXPERIMENTAL MODEL OF SIDS	5R01 HD08693-03	50,085
HERZBERG, MENDEL	IMMUNE RESPONSES TO LIVING & KILLED VACCINES	5R01 AI08041-10	35,232
HUMPHREYS, TOM D.	ISOLATION AND CHARACTERIZATION OF INDIVIDUAL GENES	1R01 GM22575-01	95,604
HUMPHREYS, TOM D.	DEVELOPMENTAL REGULATION OF MACROMOLECULAR SYNTHESIS	5R01 HD06574-06	56,870
HUNT, JOHN A.	CONTROL OF RNA SYNTHESIS IN ERYTHROID CELLS	5R01 GM22312-02	62,609
JACOBS, PATRICIA A.	A PROGRAM OF RESEARCH IN POPULATION CYTOGENETICS	5R01 HD07879-03	110,826
KANE, ROBERT E.	CELL PROTEINS IN DIVISION AND EARLY DEVELOPMENT	2R01 GM14363-11	33,201
KIEFER, EDGAR F.	THE STRUCTURE AND MODE OF ACTION OF COMPOUND 48/80	5R01 GM18740-03	34,644
KOLONEL, LAURENCE N.	DIETARY COMPONENTS AND CANCER DEVELOPMENT	1R01 CA20897-01	92,541
LICHTON, IRA J.	ANOREXIGENIC SUBSTANCE IN URINE	5R01 AM17427-03	19,227
LIN, YU-CHONG	CARDIOVASCULAR EFFECTS OF RESPIRING HE-02 MIXTURES	5R01 HL16482-02	25,499
LIU, ROBERT S.	NEW GEOMETRIC ISOMERS OF VITAMIN A AND CAROTENE	5R01 AM17806-02	71,513
MATSUMOTO, HIROMU	METABOLISM OF CYCASIN-RELATED COLON CARCINOGENS	1R26 CA18631-01	51,234
MI, MING-PI	GENETIC STUDIES WITH RECORD LINKAGE	5R01 HD04275-06	37,922
MORISHIGE, WALTER K.	HORMONAL REGULATION OF LUNG FUNCTION	1R01 HL19195-01	33,455
MORTON, BRUCE E.	THE ACTIVATION AND SURVIVAL OF SPERM MOTILITY	5R01 HD08711-02	44,084
MORTON, BRUCE E.	THE ACTIVATION AND SURVIVAL OF SPERM MOTILITY	5R01 HD08711-03	20,419
MORTON, NEWTON E.	STUDY OF POPULATION GENETICS	5R01 GM17173-07	102,429
MORTON, NEWTON E.	CHROMOSOME MAPPING IN MAN	1R01 GM23021-01	37,719
MORTON, NEWTON E.	GENETIC EPIDEMIOLOGY OF HYPERLIPIDEMIA	5R01 HL16774-02	89,668
NISHIMURA, EDWIN T.	CATALASE ISOZYMES IN NORMAL AND NEOPLASTIC TISSUES	5R01 CA10130-11	85,304
NORTON, TED R.	EVALUATION OF ANTICANCER AGENTS IN NATURAL PRODUCTS	5R01 CA12623-04	56,768
NORTON, TED R.	EVALUATION OF HEART STIMULANTS IN SEA ANEMONES	5R01 HL15991-03	35,814
OISHI, NOBORU	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA17984-02	94,421
PATIL, SURESH S.	BIOCHEMISTRY OF RESISTANCE OF PSEUDOMONADS	2R01 AI09477-07	60,901
PIETTE, LAWRENCE H.	ESR STUDIES OF BIOLOGICAL FREE RADICAL MECHANISMS	5R01 CA10977-12	64,289
PIETTE, LAWRENCE H.	CANCER CENTER SUPPORT GRANT	5P30 CA15655-02	760,536



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>HAWAII—Continued</b>			
PIETTE, LAWRENCE H.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	5P20 CA17675-02	97,193
POPPER, ARTHUR N.....	PROCESSING OF ACOUSTIC INFORMATION.....	5R01 NS09374-06	33,942
POPPER, ARTHUR N.....	PROCESSING OF ACOUSTIC INFORMATION.....	2R01 NS09374-07	46,699
PORTA, EDUARDO A.....	DIETARY FACTORS IN AGING.....	5R01 AG00143-02	67,226
ROGERS, TERENCE A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05599-10	106,400
SCHEUER, PAUL J.....	THE STRUCTURE OF THE PALYTOXINS.....	1R01 HL18253-01A1	38,403
SEFF, KARL.....	CRYSTALLOGRAPHY OF ORGANIC DISULFIDE-METAL COMPLEXES.....	5R01 GM18813-05	42,809
SIDDIQUI, WASIM A.....	IN-VITRO CULTIVATION OF HUMAN & SIMIAN MALARIAL PARASITE.....	5R01 AI09558-06	45,197
SIDDIQUI, WASIM A.....	IN-VITRO CULTIVATION OF HUMAN & SIMIAN MALARIAL PARASITE.....	5R01 AI09558-07	39,713
VANN, DOUGLAS C.....	CELLULAR BASIS OF IMMUNE RESPONSES.....	5R01 AI10498-05	47,285
YANAGIMACHI, RYUZO.....	ANALYSIS OF FERTILIZATION MECHANISMS IN MAMMALS.....	2R01 HD03402-09	81,616
YASUNOBU, KERRY T.....	INVESTIGATIONS OF BOVINE LYSYL OXIDASE AND ELASTIN.....	5R01 GM21085-03	29,803
YASUNOBU, KERRY T.....	STUDIES OF CYTOCHROME P-450 & CYTOCHROME OXIDASE.....	1R01 GM22556-01	43,091
ORGANIZATION TOTAL	61	4,571,607	
STATE TOTAL	68	4,904,314	
<b>IDAHO</b>			
<b>BOISE</b>			
ST. LUKE'S HOSPITAL	ZIP CODE 83702		
LUCE, JAMES K.....	WESTERN CANCER STUDY GROUP.....	3R10 CA15457-02S1	20,429
SMITH, CHARLES E.....	CANCER CENTER SUPPORT GRANT (SPECIALIZED).....	5P01 CA15192-03	125,798
ORGANIZATION TOTAL	2	146,227	
<b>MOSCOW</b>			
UNIVERSITY OF IDAHO	ZIP CODE 83843		
DAVIS, STEVEN L.....	PROLACTIN SECRETION AND ITS REPRODUCTIVE FUNCTIONS.....	5R01 HD07830-05	48,314
HASS, GEORGE M.....	PROTEINASE INHIBITORS IN POTATOES.....	1R01 GM22748-01	40,968
MEAD, RODNEY A.....	HORMONAL CONTROL OF DELAYED IMPLANTATION.....	5R01 HD06556-05	37,428
RENSHAW, HARLAND W.....	INTRANEUTROPHILIC MICROBICIDAL DEFECT STUDY.....	1R01 AI12826-01A1	23,459
STALLKNECHT, GILBERT F.....	ASSAY OF POTATO TUBER METABOLITES FOR TERATOGENICITY.....	5R01 HD08288-02	49,160
WHITE, ROBERT D.....	THE INTERACTION OF SOUND WITH PROTEINS.....	7R01 GM22955-01	18,421
WILLETT, JAMES D.....	HORMONES AND AGING IN NEMATODES.....	1R01 AG00293-01	53,955
ORGANIZATION TOTAL	7	271,705	
<b>POCATELLO</b>			
IDAHO STATE UNIVERSITY	ZIP CODE 83201		
LEIBY, PAUL D.....	EPIDEMIOLOGY OF ECHINOCOCCUS MULTILOCULARIS.....	7R01 AI13384-01	39,857
LEIBY, PAUL D.....	EPIDEMIOLOGY OF ECHINOCOCCUS MULTILOCULARIS.....	5R01 AI13384-02	33,993
ORGANIZATION TOTAL	2	73,850	
STATE TOTAL	11	491,782	
<b>ILLINOIS</b>			
<b>CARBONDALE</b>			
SOUTHERN ILLINOIS UNIVERSITY	ZIP CODE 62901		
BOLAN, DAVID W.....	ELEMENTARY STEPS IN CHYMOTRYPSIN CATALYSIS.....	5R01 GM22300-02	29,996
DINGERSON, MICHAEL R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07118-07	15,658
DUNAGAN, TOMMY T.....	LACUNAR SYSTEM OF ACANTHOCEPHALA.....	5R01 AI12883-02	22,172
ESTAVILLO, JAIME A.....	ANALYSIS OF END-NET RECEPTORS.....	7R01 HL19149-01	29,776

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
ESTAVILLO, JAIME A.....	ANALYSIS OF END-NET RECEPTORS.....	5R01 HL19149-02	31,405
HARGRAVE, PAUL A.....	RHODOPSIN STRUCTURE AND FUNCTION.....	5R01 EY01275-03	18,336
LINDEGREN, CARL C.....	DETOXICATION OF VARIOUS POISONS BY ASCORBIC IN YEAST.....	1R01 ES01237-01	3,930
LIT, ALFRED.....	EFFECTS OF ILLUMINATION ON BINOCULAR SPACE PERCEPTION.....	5R01 EY00383-14	42,688
PETERSON, RUDOLPH N.....	MOTILITY AND METABOLISM IN HUMAN SPERMATOZOA.....	7R01 HD10947-01	35,084
ORGANIZATION TOTAL	9	229,045	
<b>CHAMPAIGN</b>			
<b>HARLAN E. MOORE HEART RESEARCH FOUNDATION ZIP CODE 61820</b>			
KUMMEROW, FRED A.....	ANIMAL MODEL FOR STUDIES ON AVERTING ATHEROSCLEROSIS.....	5R01 HL15504-04	39,805
ORGANIZATION TOTAL	1	39,805	
<b>CHARLESTON</b>			
<b>EASTERN ILLINOIS UNIVERSITY ZIP CODE 61920</b>			
FERGUSON, KAREN A.....	EFFECT OF STEROL ON MEMBRANE-BOUND ENZYMES.....	1R01 GM22915-01	37,060
ORGANIZATION TOTAL	1	37,060	
<b>CHICAGO</b>			
<b>AMERICAN COLLEGE OF RADIOLOGY ZIP CODE 60606</b>			
KRAMER, SIMON.....	CLINICAL AND RESEARCH RADIATION THERAPY IN CANCER CARE.....	5R18 CA15978-03	857,757
POWERS, WILLIAM E.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	1P20 CA18948-01	48,087
POWERS, WILLIAM E.....	PARTICLE ACCELERATORS IN RADIATION THERAPY.....	1R13 CA19585-01	96,907
ORGANIZATION TOTAL	3	1,002,751	
<b>AMERICAN COLLEGE OF SURGEONS ZIP CODE 60611</b>			
BEAHR, OLIVER H.....	AMERICAN JOINT COMMITTEE (CANCER STAGING).....	5R01 CA11606-07	116,367
BEAHR, OLIVER H.....	AMERICAN JOINT COMMITTEE (CANCER STAGING).....	5R01 CA11606-08	85,132
ORGANIZATION TOTAL	2	201,499	
<b>AMERICAN DENTAL ASSOCIATION ZIP CODE 60611</b>			
BOWEN, RAFAEL L.....	IMPROVEMENT OF MATERIALS FOR PREVENTIVE DENTISTRY.....	5R01 DE02494-10	67,468
BROWN, WALTER E.....	CRYSTAL CHEMISTRY OF CALCIUM PHOSPHATES.....	5R01 DE00572-17	117,577
BROWN, WALTER E.....	CRYSTAL CHEMISTRY OF CALCIUM PHOSPHATES.....	5R01 DE00572-18	118,143
BROWN, WALTER E.....	SOLUBILITY AND DIFFUSION OF CALCIUM PHOSPHATES.....	5R01 DE02659-10	101,489
BROWN, WALTER E.....	MECHANISM OF DENTAL CARIES.....	1R01 DE04385-01	45,362
BROWN, WALTER E.....	WORKSHOP ON CARIOSTATIC MECHANISMS OF FLUORIDES.....	1R13 DE04454-01	60,606
LYON, HARVEY W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05689-08	38,392
MABIE, CURTIS P.....	DENTAL PORCELAIN IMPROVEMENT WITH INORGANIC POLYMERS.....	5R01 DE04058-02	15,458
RUPP, NELSON W.....	AMALGAM: IMPROVED ALLOY AND MANIPULATION TECHNIQUES.....	5R01 DE03679-02	30,984
RUPP, NELSON W.....	AMALGAM: IMPROVED ALLOY AND MANIPULATION TECHNIQUES.....	5R01 DE03679-03	26,145
STANFORD, JOHN W.....	STANDARD TEST METHODS FOR BIOMATERIALS & INSTRUMENTATION.....	5R01 DE03505-08	110,010
WATERSTRAT, RICHARD M.....	CONSTITUTION DIAGRAMS FOR ALLOYS OF THE NOBLE METALS.....	2R01 DE02455-09	30,244
WATERSTRAT, RICHARD M.....	CONSTITUTION DIAGRAMS FOR ALLOYS OF THE NOBLE METALS.....	5R01 DE02455-10	32,224
ORGANIZATION TOTAL	13	794,102	
<b>CHICAGO HEALTH DEPARTMENT ZIP CODE 60602</b>			
BERKSON, DAVID M.....	CARDIAC FUNCTION AND PROGNOSIS OF CORONARY DISEASE.....	5R01 HL14927-05	39,474
WHIPPLE, IRA T.....	MYOCARDIAL FUNCTION, RISK FACTORS AND FUTURE CHD.....	5R01 HL16908-02	8,295
ORGANIZATION TOTAL	2	47,769	
<b>CHICAGO STATE UNIVERSITY ZIP CODE 60628</b>			
SHERMAN, WARREN V.....	DEVELOPMENT OF FACULTY AND STUDENT RESEARCH COMPETENCE.....	5S06 RR08043-05	52,394
ORGANIZATION TOTAL	1	52,394	
<b>CHILDREN'S MEMORIAL HOSPITAL ZIP CODE 60614</b>			
HONIG, GEORGE R.....	REGULATION OF HEMOGLOBIN SYNTHESIS.....	7R01 AM19046-01	36,250

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
HONIG, GEORGE R .....	COOPERATIVE STUDY OF CHILDREN'S CANCER .....	5R10 CA07431-13	179,764
NADLER, HENRY L .....	ARGININE ESTERASE IN CYSTIC FIBROSIS .....	5R01 AM18462-02	85,287
NADLER, HENRY L .....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN .....	5M01 RR00199-12	147,933
NADLER, HENRY L .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05475-14	65,361
RAIMONDI, ANTHONY J .....	PATHOGENESIS OF HYDROCEPHALUS IN HY-3 AND CH MUTANTS .....	5R01 NS09025-07	39,714
SCHULMAN, JEROME L .....	COPING IN FAMILIES WITH A LEUKEMIC CHILD .....	1R18 CA19344-01	107,168
STOUT, RONALD L .....	PATIENT DATA ACQUISITION AND ANALYSIS SYSTEM .....	5R01 GM21293-02	103,464
WESSEL, HANS U .....	EXERCISE PERFORMANCE IN CHILDREN WITH HEART DISEASE .....	5R01 HL17578-02	102,543
ORGANIZATION TOTAL	9	867,484	
<b>DEPAUL UNIVERSITY ZIP CODE 60604</b>			
WOODS, JAMES E .....	SEX HORMONE PRODUCTION AND SECRETION IN THE CHICK EMBRYO .....	5R01 HD07420-03	22,228
ORGANIZATION TOTAL	1	22,228	
<b>HEALTH AND HOSPITALS GOVERNING COMMISSION OF COOK COUNTY—COOK COUNTY HOSPITAL ZIP CODE 60612</b>			
BURKE, GERALD .....	THYROID STIMULATORS AND THYROID STIMULATION .....	3R01 AM17561-03S1	34,629
ORGANIZATION TOTAL	1	34,629	
<b>HEKTOEN INSTITUTE FOR MEDICAL RESEARCH ZIP CODE 60612</b>			
HOFFMAN, SAMUEL J .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05524-14	29,407
LEV, MAURICE .....	CONGENITAL HEART DISEASE RESEARCH PROGRAM .....	5R01 HL07605-14	78,760
LIU, MAI-SHAN .....	PERFLUOROCTYLBROMIDE IN MYELOGRAPHY AND LYMPHOGRAPHY .....	5R01 GM20730-03	98,297
MARKOWITZ, ABRAHAM S .....	RENAL DISEASE AND ALLOGRAFT EFFECTS OF STREPTOCOCCI .....	5P01 AM16944-03	180,322
ORGANIZATION TOTAL	4	386,786	
<b>IIT RESEARCH INSTITUTE ZIP CODE 60616</b>			
KROTOSZYNSKI, BOGUSLAW K .....	CHARACTERIZATION OF EFFLUENTS FROM NORMAL HUMAN LUNGS .....	5R01 HL16869-02	73,593
MOON, RICHARD C .....	CHEMICAL CARCINOGENESIS OF THE COLON .....	5R26 CA16370-03	76,096
MOON, RICHARD C .....	REPRODUCTIVE AGE AND MAMMARY CARCINOGENESIS .....	1R01 CA18968-01	70,629
RANADE, MADHAV B .....	A STUDY OF THERAPEUTIC AEROSOLS .....	1R01 HL19647-01A1	48,653
ORGANIZATION TOTAL	4	268,971	
<b>ILLINOIS CANCER COUNCIL ZIP CODE 60603</b>			
TAYLOR, SAMUEL G, III .....	EXPLORATORY STUDIES IN CANCER RESEARCH .....	1P20 CA18237-01	349,765
TAYLOR, SAMUEL G, III .....	DEVELOPMENT OF COORDINATED CANCER PROGRAM .....	1R18 CA20071-01	276,418
ORGANIZATION TOTAL	2	626,183	
<b>ILLINOIS COLLEGE OF OPTOMETRY ZIP CODE 60616</b>			
CHINO, YUZO M .....	STEREOPSIS IN ANIMALS .....	5R01 EY01444-02	16,945
ORGANIZATION TOTAL	1	16,945	
<b>ILLINOIS DEPARTMENT OF MENTAL HEALTH AND DEVELOPMENTAL DISABILITIES—ILL INST DEV DISABILITIES ZIP CODE 60608</b>			
BERKSON, GERSHON .....	SOCIAL AFFILIATIONS OF THE ADULT MENTALLY RETARDED .....	1R01 HD10321-01	56,398
ORGANIZATION TOTAL	1	56,398	
<b>ILLINOIS DEPARTMENT OF MENTAL HEALTH AND DEVELOPMENTAL DISABILITIES—ILLINOIS STATE PSYCH INST ZIP CODE 60612</b>			
KARRER, RATHE .....	ANALYSIS OF RESPONSE SPEED IN MENTAL RETARDATION .....	5R01 HD08265-03	25,533
ORGANIZATION TOTAL	1	25,533	
<b>ILLINOIS INSTITUTE OF TECHNOLOGY ZIP CODE 60616</b>			
BROWN, JOE N, JR .....	ANTINEOPLASTIC THIOSEMICARBAZONE ACTIVITY .....	5R01 CA17594-02	27,588
BRUBAKER, GEORGE R .....	STEREOCHEMISTRY AND REACTIVITY OF METAL CHELATES .....	5R01 GM18600-02	48,741
GROSSWEINER, LEONARD I .....	FAST PHOTSENSITIZED REACTIONS OF AROMATIC COMPOUNDS .....	2R01 GM20117-13	59,374
GURALNICK, SIDNEY A .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR07027-11	29,583
HOSKIN, FRANCIS C .....	BIOCHEMICAL BASIS OF OP PESTICIDE EFFECTS ON FUNCTION .....	5R01 NS09090-06	74,960
HOSKIN, FRANCIS C .....	BIOCHEMICAL BASIS OF OP PESTICIDE EFFECTS ON FUNCTION .....	5R01 NS09090-07	80,164
JOHNSON, PETER Y .....	A ROUTE TO A NEW CLASS OF PENICILLIN-LIKE ANTIBIOTICS .....	7R01 AI14106-01	31,483
JOHNSON, PETER Y .....	6-ALKOXYTETRAHYDRO-1, 3-OXAZINES AS ANTICANCER AGENTS .....	7R01 CA21679-01	35,003
KOPPLE, KENNETH D .....	CONFORMATION AND PROPERTIES OF PEPTIDES .....	5R01 GM14069-11	51,861
KUSANO, KIYOSHI .....	ELECTROPHYSIOLOGY OF SYNAPTIC TRANSMISSION .....	5R01 NS12275-02	32,847

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
RAJAN, KRISHNASWAMY S.....	METAL CHELATES OF L-DOPA FOR PARKINSONISM.....	2R01 NS11556-02A2	62,378
ROTH, ROBERT M.....	GENETIC CONTROL OF REPLICATION DURING MEIOSIS.....	2R01 GM19330-04	43,237
WEBSTER, DALE A.....	THE REACTION OF CYTOCHROME O WITH OXYGEN.....	5R01 GM20006-02	28,462
ORGANIZATION TOTAL	13 605,681		
<b>INDIVIDUAL AWARD—KING, LESTER S. ZIP CODE 60613</b>			
KING, LESTER S.....	CONCEPTUAL BACKGROUND OF EIGHTEENTH CENTURY MEDICINE.....	2R01 LM01804-04	5,200
ORGANIZATION TOTAL	1 5,200		
<b>INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH ZIP CODE 60611</b>			
FRECHETTE, ARTHUR R.....	BLOC TRAVEL FOR N.I.D.R. SUPPORTED INVESTIGATORS.....	2R13 DE04080-02	53,965
ORGANIZATION TOTAL	1 53,965		
<b>MICHAEL REESE HOSPITAL AND MEDICAL CENTER ZIP CODE 60616</b>			
ARBEL, EMANUEL R.....	ELECTROPHYSIOLOGY OF VERATRINE IN THE MAMMALIAN HEART.....	5R01 HL17350-02	47,113
COHEN, SIDNEY.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05476-14	85,962
DIAMOND, RICHARD D.....	CELLULAR IMMUNITY IN OPPORTUNISTIC MYCOSES.....	5R01 AI12145-02	32,566
DIAMOND, RICHARD D.....	CELLULAR IMMUNITY IN OPPORTUNISTIC MYCOSES.....	5R01 AI12145-03	30,338
EVANS, RICHARD H.....	PRIMARY BREAST CANCER THERAPY GROUP.....	5R10 CA12032-04	27,414
FRIED, WALTER.....	FACTORS REGULATING HEMATOPOIESIS.....	7R01 AM19455-01	31,956
FROHMAN, LAWRENCE A.....	NEUROENDOCRINE CONTROL OF GROWTH HORMONE AND PROLACTIN.....	1R01 AM18722-01	114,137
GLICK, GERALD.....	RELATION OF CARDIAC LYMPH TO MYOCARDIAL INFARCTION.....	5R01 HL16615-03	65,834
GOLDMAN, JOHN N.....	IMMUNOLOGIC AND GENETIC CONTROL OF HUMORAL IMMUNITY.....	5R01 AI12792-02	90,799
HIRSCH, LEROY J.....	PHYSIOLOGICAL CONTROL OF THE SPLANCHNIC CIRCULATION.....	3R01 HL15607-03S1	15,551
HIRSCH, LEROY J.....	PHYSIOLOGICAL CONTROL OF THE SPLANCHNIC CIRCULATION.....	2R01 HL15607-04	102,415
LEVITSKY, LYNNE L.....	ENERGY METABOLISM IN THE NEONATE.....	5R01 HD08608-02	30,798
LEVITSKY, LYNNE L.....	FUNCTIONAL MATURATION OF THE ENDOCRINE PANCREAS.....	5R01 HD08948-03	24,299
NATELSON, SAMUEL.....	GUANIDINO COMPOUND IN HEALTH AND DISEASE.....	5R01 AM09958-12	55,957
OVADIA, JACQUES.....	RADIATION SENSITIZATION MECHANISMS IN CANCER THERAPY.....	5R01 CA13307-03	86,499
PICK, RUTH.....	ATHEROSCLEROSIS STUDIES.....	1R01 HL19112-01	114,651
ROBBINS, KENNETH C.....	PLASMINOGEN: ACTIVATION & STRUCTURE-FUNCTION RELATIONS.....	5R01 HL04366-17	129,187
SHERWOOD, LOUIS M.....	REGULATION OF THE PARATHYROID GLANDS.....	1R01 AM19236-01	81,547
SHERWOOD, LOUIS M.....	THE CHEMISTRY AND PHYSIOLOGY OF PLACENTAL LACTOGEN.....	5R01 HD08225-04	69,256
ORGANIZATION TOTAL	19 1,236,279		
<b>MOUNT SINAI HOSPITAL MEDICAL CENTER OF CHICAGO ZIP CODE 60608</b>			
DAVIDSOHN, ISRAEL.....	EARLY DIAGNOSIS OF CANCER AND CANCER METASTASES.....	2R01 CA17089-02	102,951
ORGANIZATION TOTAL	1 102,951		
<b>NATIONAL OPINION RESEARCH CENTER ZIP CODE 60637</b>			
CLARK, TERRY N.....	POPULATION CHARACTERISTICS AND CITIZEN POLICY.....	5R01 HD08916-02	36,119
PREWITT, KENNETH.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR05783-01	17,690
ORGANIZATION TOTAL	2 53,809		
<b>NEWBERRY LIBRARY ZIP CODE 60610</b>			
JENSEN, RICHARD J.....	OLD AGE IN AMERICA, 1880-1900: A DEMOGRAPHIC HISTORY.....	1R01 AG00350-01	59,244
ORGANIZATION TOTAL	1 59,244		
<b>NORTHWESTERN UNIVERSITY ZIP CODE 60611</b>			
ANDERSON, BYRON E.....	STUDY OF RHEUMATOID ARTHRITIS.....	2R01 AM16326-04	43,785
ATKINSON, ARTHUR J, JR.....	CLINICAL PHARMACOLOGY OF COMMONLY USED DRUGS.....	1R01 GM22371-01	91,284
BERLIN, NATHANIEL I.....	CANCER CENTER SUPPORT GRANT.....	5P30 CA15145-02	502,144
BERNIK, MARIA B.....	FIBRINOLYTIC EVENTS IN HUMAN TISSUES & CELLS IN CULTURE.....	5R01 AM14018-07	67,663
BERRY, ROBERT W.....	STUDIES ON THE REGULATION OF NEURONAL PROTEIN SYNTHESIS.....	5R01 NS11519-03	21,439
BONDAREFF, WILLIAM.....	AGE CHANGES IN THE NEURONAL MICROENVIRONMENT.....	5R01 AG00383-03	30,144
BRAUN, THEODOR.....	SPERM ADENYL CYCLASE: DEVELOPMENT AND MOLECULAR NATURE.....	1R01 HD10006-01	48,367
BREWER, JOHN I.....	STUDIES OF TROPHOBLASTIC DISEASE.....	3R01 CA12109-05S1	39,419
BREWER, JOHN I.....	TROPHOBLASTIC DISEASE—CLINICAL & IMMUNOLOGICAL.....	2R01 CA12109-06	229,960
CARONE, FRANK A.....	TRANSPORT OF MACROMOLECULES ACROSS CELLS & MEMBRANES.....	5R01 AM14610-06	26,766
CARONE, FRANK A.....	TRANSPORT OF MACROMOLECULES ACROSS CELLS & MEMBRANES.....	5R01 AM14610-07	28,018



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
CHEN, CHIADAO	MODE OF ACTION OF CHEMICAL CARCINOGENESIS	5R01 CA15030-03	45,903
CHEN, CHING-PING W.	ENVIRONMENTAL EFFECT ON TENSILE PROPERTIES OF AMALGAM	5R23 DE04240-02	14,355
CORCORAN, JOHN W.	ANTIMETABOLITES DERIVED FROM THE ACTINOMYCETES	5R01 A09158-07	33,027
CORCORAN, JOHN W.	SOLUBLE CYTOCHROME P-450 HYDROXYLASE FROM <i>S. ERYTHREUS</i>	1R01 GM22349-01	49,340
DAL CANTO, MAURO C.	VIRUS INDUCED DEMYELINATION	1R01 NS13011-01	32,680
DEWYS, WILLIAM D.	CLINICAL TRIALS—EASTERN COOPERATIVE ONCOLOGY GROUP	2R10 CA17145-02	118,262
DEWYS, WILLIAM D.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA18004-02	82,838
DIAMOND, JACK	ROLE OF CAMP AND CGMP IN DRUG EFFECTS ON SMOOTH MUSCLE	5R01 HD05827-05	37,665
DISTERHOFT, JOHN F.	AUDITORY NEUROPSYCHOLOGY	5R01 NS12317-02	34,090
DUNCAN, JAMES L.	STREPTOLYSIN O ACTION ON MAMMALIAN CELL MEMBRANES	5R01 A11644-03	23,373
DUNCAN, JAMES L.	STREPTOLYSIN O ACTION ON MAMMALIAN CELL MEMBRANES	2R01 A11644-04	38,489
ECKENHOFF, JAMES E.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00048-15	618,126
ECKENHOFF, JAMES E.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05370-15	193,032
EISENSTEIN, REUBEN	ORGANIZATION OF ARTERIAL GROUND SUBSTANCE	1R01 HL18625-01	73,985
FARBMAN, ALBERT I.	DIFFERENTIATION OF ORAL EPITHELIUM	5R01 DE03934-03	57,514
FARBMAN, ALBERT I.	CYTOLOGICAL STUDIES OF INDUCTION DURING DEVELOPMENT	5R01 NS06181-08	28,917
FARBMAN, ALBERT I.	CYTOLOGICAL STUDIES OF INDUCTION DURING DEVELOPMENT	5R01 NS06181-09	30,771
FISH, JAMES E.	ELASTICITY OF LUNGS AND THORAX IN ALLERGIC ASTHMA	1R23 HL19577-01	47,868
FLOURET, GEORGE R.	SYNTHETIC ANTIOVULATORY AGENTS	5R01 HD08869-02	57,137
FREINKEL, NORBERT	REGULATORY MECHANISMS IN METABOLISM	5R01 AM10699-11	174,715
FREINKEL, NORBERT	CONTROL MECHANISMS IN DIABETES AND NORMAL METABOLISM	2R01 AM10699-12	185,355
FREINKEL, RUTH K.	INTERMEDIATE METABOLISM IN EPIDERMAL DIFFERENTIATION	5R01 AM16441-10	61,264
GANOTE, CHARLES E.	IRREVERSIBLE MYOCARDIAL INJURY	1R01 HL19000-01	69,142
GHOSH, SANTIBRATA	ARTERIAL UPTAKE OF LIPOPROTEIN: KINETIC ANALYSIS	1R01 HL16419-01A2	43,798
GHOSH, SANTIBRATA	TRANSPORT THROUGH ARTERIAL WALL: BIOPHYSICAL ASPECTS	1R01 HL18004-01A1	32,512
GOLDSTONE, A.	SYNTHESIS AND TURNOVER OF KIDNEY HEXOSAMINIDASES	5R01 AM18052-02	40,373
GRAYHACK, JOHN T.	ENZYMES IN DIAGNOSIS AND STAGING OF PROSTATIC CANCER	2R26 CA16736-03	42,654
GREENER, EVAN H.	PROPERTIES OF HIGH COPPER CONCENTRATION AMALGAMS	5R01 DE03637-02	32,132
HARRIS, STANLEY C.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05311-15	28,345
HINKLEY, ROBERT E. JR.	ANESTHETIC ALTERATION OF CELL STRUCTURE AND FUNCTION	2R01 GM19813-04	41,267
HOLLAND, JAMES M.	HORMONE DEPENDENT UROGENITAL TUMORS IN RODENTS	5R01 CA10286-08	32,265
HOLLENBERG, PAUL F.	HEMOPROTEIN-CATALYZED OXYGENATIONS OF CARCINOGENS	5R01 CA16954-02	31,391
HSU, CLEMENT C.	ALTERATIONS OF IMMUNE RESPONSES DURING PREGNANCY	5R01 AI12085-03	64,611
JUNGSMANN, RICHARD A.	PROTEIN KINASE AND CHOLESTEROL METABOLISM IN AORTA	1R01 HL18682-01	32,450
KAHAN, BARRY D.	ANTIGENIC STIMULUS IN HUMAN COLON CARCINOMA IMMUNITY	2R26 CA15434-04	90,030
KIEFER, HELEN C.	KINETIC STUDY OF ADENYLATE AND GUANYLATE CYCLASE	1R01 GM23127-01	44,015
KOENIG, HAROLD	SECRETORY PROCESSES IN THE RAT VENTRAL PROSTATE	1R01 HD09729-01	77,442
KOENIG, HAROLD	RELATIONSHIP OF BRAIN ARYL SULFATASE A AND B	5R01 NS11944-02	28,143
KURAMITSU, HOWARD K.	DEXTRANSUCRASE AND DENTAL PLAQUE FORMATION	5R01 DE03258-05	41,134
KWAAN, HAU C.	NEW TECHNIQUES IN DIAGNOSIS AND DETECTION OF THROMBI	5R01 HL16253-03	37,953
KWAAN, HAU C.	UROKINASE FOR RETINAL VEIN THROMBOSIS	5R01 HL17938-02	17,075
LEE, CHUNG	ESTROGEN ACTION ON DMBA-INDUCED RAT MAMMARY TUMORS	5R01 CA14727-03	39,435
LEESTMA, JAN E.	PATHOLOGICAL ASPECTS OF NEUROPLASMIC FLOW	5R01 NS11559-03	28,925
LESCH, MICHAEL	MYOCARDIAL PROTEIN DEGRADATION	1R01 HL19648-01	90,400
LOGEMANN, JERILYN A.	EVALUATION OF REHABILITATION OF OROPHARYNGEAL CANCER	1R18 CA18901-01	59,778
LOGEMANN, JERILYN A.	EVALUATION OF REHABILITATION OF OROPHARYNGEAL CANCER	5R18 CA18901-02	59,296
MARSHALL, GRAYSON W. JR.	REPLICA-SEM STUDIES OF IN VIVO DENTAL MORPHOLOGIES	5R23 DE04000-02	10,901
MARTIN, ALICE O.	GENETIC INVESTIGATION OF NEOPLASIA IN A HUMAN ISOLATE	1R01 CA19822-01	10,000
MICHAELIS, LAWRENCE L.	CONTINUOUS MONITORING WITH A SMALL DIGITAL COMPUTER	5R01 HL10177-11	138,676
MIEYAL, JOHN J.	HEMOPROTEIN-DRUG INTERACTIONS: ROLE IN METABOLISM	5R01 GM20050-02	29,011
MILLER, LEO	MESSANGER RNA SYNTHESIS IN NUCLEOLAR MUTANTS OF <i>XENOPUS</i>	1R01 GM22734-01	42,156
MORIARTY, GWEN C.	CYTOCHEMICAL DIFFERENTIATION OF GONADOTROPHS	7R01 HD10930-01	21,652
NOFFSINGER, PAUL D.	OUTPATIENT RESEARCH CENTER FOR SENSORINEURAL DEAFNESS	5P50 NS07791-08	110,521
NOFFSINGER, PAUL D.	OUTPATIENT RESEARCH CENTER FOR SENSORINEURAL DEAFNESS	2P50 NS07791-09	110,492
NOFFSINGER, PAUL D.	DICHOTIC AUDITORY BEHAVIOR FOLLOWING CORTICAL LESION	5R01 NS11859-02	54,271
OKITA, GEORGE T.	ROLE OF NA,K-ATPASE INHIBITION ON DIGITALIS ACTION	1R01 HL18598-01	34,538
ORR, MARY F.	DEVELOPMENT AND CYTODIFFERENTIATION OF THE INNER EAR	5R01 NS08569-08	29,412
OYASU, RYOICHI	IN VIVO BLADDER CARCINOGENESIS OF NITROSOAMINES	2R26 CA14649-03	56,846
OYASU, RYOICHI	IN VITRO BLADDER CARCINOGENESIS OF NITROSOAMINES	5R26 CA18585-02	15,782
PATERSON, PHILIP Y.	IMMUNE BASIS OF DISEASE—ALLERGIC ENCEPHALOMYELITIS	2R01 NS06262-12	129,997

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
PATTERSON, ROY	ALLERGIC DISEASES CENTERS GRANT	5P50 AI11403-04	112,544
PATTERSON, ROY	CLINICAL & LABORATORY STUDIES RELATING TO LUNG DISEASE	5P01 AI11759-03	110,209
PHAIR, JOHN P.	HOST DEFENSES AND NOSOCOMIAL INFECTION	7R01 AI13668-01	53,569
PYSH, JOSEPH J.	MORPHOLOGY AND CYTOPHYSIOLOGY OF SYNAPTIC TRANSMISSION	5R01 NS11325-03	20,833
RABINOWITZ, STANLEY G.	PATHOGENESIS—SLOW VESICULAR STOMATITIS VIRUS INFECTION	1R01 NS13045-01	50,353
RAFFERTY, NANCY S.	ETIOLOGY OF CATARACT	5R01 EY00698-06	28,461
REDDY, JANARDAN K.	NUTRITIONAL AND ENVIRONMENTAL STRESS ON CARCINOGENESIS	1R01 CA21690-01	56,883
REDDY, JANARDAN K.	BIOLOGIC STUDIES WITH LIVER PEROXISOME PROLIFERATORS	1R01 GM23750-01	43,845
SCHREK, ROBERT	COLCHICINE-SENSITIVITY TEST FOR LEUKEMIC LYMPHOCYTES	1R01 CA19000-01	23,060
SCHWARTZ, NEENA B.	ENVIRONMENTAL AND HORMONAL INTERPLAY OF OVULATION	3R01 HD07504-03S1	13,566
SILINSKY, EUGENE M.	ADENINE NUCLEOTIDE RELEASE FROM MOTOR NERVE ENDINGS	1R01 NS12782-01	33,210
SLADE, HUTTON D.	STREPTOCOCCAL SURFACE ANTIGENS AND DENTAL CARIES	2R01 DE03615-04	51,425
SLADE, HUTTON D.	BIOLOGICAL ACTIVITIES OF GROUP A STREPTOCOCCUS	5R01 HL03709-19	41,082
SMITH, DAVID W.	AMINOACYL TRANSFER RNA SYNTHETASES IN RETICULOCYTES	5R01 AM16674-03	53,446
SPEHLMANN, RAINER	PHARMACOLOGY OF SYNAPTIC TRANSMISSION IN THE BRAIN	5R01 NS06820-09	22,635
STAMLER, JEREMIAH	CV DISEASE EPIDEMIOLOGY—SECOND GENERATION STUDIES	5R01 HL15174-04	171,714
STERN, PAULA H.	EFFECTS OF HORMONES ON BONE RESORPTION IN VITRO	5R01 AM11262-10	57,576
TELSE, ALVIN G.	FLAGELLAR REGENERATION IN CHLAMYDOMONAS REINHARDII	5R01 HD09108-02	36,039
TEN EICK, ROBERT E.	ELECTROPHYSIOLOGIC BASIS OF HUMAN DYSRHYTHMIAS	1R01 HL16721-01	51,291
TEN EICK, ROBERT E.	ELECTROPHYSIOLOGIC BASIS OF HUMAN DYSRHYTHMIAS	5R01 HL16721-02	33,155
VEIS, ARTHUR	THE STRUCTURE AND ORGANIZATION OF COLLAGEN FIBERS	5R01 AM13921-16	100,584
VEIS, ARTHUR	MATRIX COMPONENT INTERACTIONS IN CALCIFIED TISSUES	5R01 DE01374-16	60,383
WILBER, JOHN F.	THYROTROPIN RELEASING FACTOR SECRETION AND ACTIONS	5R01 AM14997-06	85,644
YOUNG, GUY P.	ACQUIRED IMMUNITY IN TUBERCULOSIS	5R22 AI01636-19	119,643
ORGANIZATION TOTAL	95	6,497,666	
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER ZIP CODE 60612</b>			
BACUS, JAMES W.	PATTERN RECOGNITION STUDIES OF PERIPHERAL BLOOD CELLS	5R01 HL14492-05	87,610
BECKER, FRANK O.	RELATION OF TREATMENT OF DIABETIC COMPLICATIONS	2R01 AM06739-14	13,255
BECKER, FRANK O.	RELATION OF TREATMENT OF DIABETIC COMPLICATIONS	5R01 AM06739-15	8,524
BOOBYE, FRANCOIS M.	CHARACTERIZATION OF CULTURED AORTIC ENDOTHELIAL CELLS	5R01 HL17973-02	62,276
CLASEN, RAYMOND A.	EXPERIMENTAL CEREBRAL INJURY AND EDEMA	2R01 NS03677-14A2	32,903
COLE, EDMOND R.	STUDY OF PLASMINOGEN ACTIVATORS FROM TISSUES	2R01 HL15817-04	58,611
GEMURZ, HENRY	STUDIES OF THE BIOLOGY OF THE C-REACTIVE PROTEINS	5R01 AI12870-02	126,360
HARTMANN, J FRANCIS	ELECTRON MICROSCOPY OF CEREBRAL TISSUE	5R01 NS05591-12	60,669
HEGYVARY, CSABA	DIGITALIS-RECEPTOR OF THE HEART	5R01 HL16611-02	27,506
HEJNA, WILLIAM F.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05477-14	137,269
HENDRICKSON, FRANK R.	COOPERATIVE STUDY OF RADIATION THERAPY	2R10 CA12255-04	50,316
HUGHES, WILLIAM F. III	NEURONAL DEVELOPMENT IN THE VISUAL SYSTEM	5R23 EY01477-02	10,398
KNOSPE, WILLIAM H.	SOUTHEASTERN CANCER STUDY GROUP	5R10 CA12640-05	58,639
MC KENNA, RAJALAXMI	ELUCIDATION OF HYPERCOAGULABILITY STATES	3R01 HL14636-03S1	1,173
MICHAEL, JOEL A.	REGIONAL CEREBROVASCULAR RESPONSES TO HYPOXIA	5R01 NS12432-02	29,961
NONOYAMA, MEIHAN	STUDY OF THE ONCOGENICITY OF THE EPSTEIN-BARR VIRUS	5R01 CA15281-03	65,689
PERLIA, CHARLES P.	EASTERN COOPERATIVE ONCOLOGY GROUP	5R10 CA10948-08	157,966
RAFFELSON, MAX E. JR.	BIOCHEMICAL CHARACTERIZATION OF PLATELET COMPONENTS	5R01 HL07565-14	65,547
SCHAUF, CHARLES L.	STUDIES OF NEUROTOXIC AGENTS IN MULTIPLE SCLEROSIS	1R01 NS12423-01	23,200
TROBAUGH, FRANK E. JR.	CORRELATIVE STUDIES OF BONE MARROW VIABILITY	5R01 CA04144-18	174,021
WILBANKS, GEORGE D. JR.	GYNECOLOGIC ONCOLOGY GROUP	2R10 CA12485-06	41,890
ORGANIZATION TOTAL	21	1,293,783	
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER—RUSH UNIVERSITY ZIP CODE 60612</b>			
CLASEN, RAYMOND A.	EXPERIMENTAL LEAD ENCEPHALOPATHY	5R01 ES00775-03	24,410
DEINHARDT, FRIEDRICH W.	SLOW VIRUS INFECTIONS OF HUMAN BRAIN	5R01 AI09628-06	49,408
FLANAGAN, MALACHI J.	NATIONAL BLADDER CANCER COLLABORATIVE GROUP A (NBCCGA)	5R26 CA16886-03	33,781
GALANTE, JORGE O.	TOTAL SURGICAL REPLACEMENT OF THE HUMAN HIP JOINT	2R01 AM16485-05	129,564
HENDRICKSON, FRANK R.	CANCER SUPPORT GRANT (SPECIALIZED)	5P30 CA17086-02	164,756
HOEPPNER, THOMAS J.	EPILEPTOGENIC FACTORS IN ALUMINA CREAM LESIONS	5R01 NS11541-02	25,975
ORGANIZATION TOTAL	6	427,894	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
<b>UNIVERSITY OF CHICAGO      ZIP CODE 60637</b>			
AGARWAL, KAN L.	NUCLEIC ACID-PROTEIN INTERACTIONS.	5R01 GM22199-02	46,883
ARNASON, BARRY G.	SLAODENECTOMY, EPIDERMAL GROWTH FACTOR & TUMOR GROWTH.	1R01 CA21043-01	71,991
ARNASON, BARRY G.	MYASTHENIA GRAVIS: ROLE OF ACETYLCHOLINE RECEPTORS.	1R01 NS13526-01	144,947
BAKER, WILLIAM K.	GENETIC CONTROL OF DIFFERENTIAL CELL FUNCTION.	5R01 GM07428-16	47,221
BORENSZTAJN, JAYME	PHYSICAL EXERCISE AND LIPOPROTEIN LIPASE ACTIVITY.	5R01 AM16831-03	31,519
BORENSZTAJN, JAYME	HEART LIPOPROTEIN LIPASE AND HYPERTRIGLYCERIDEMIAS.	5R01 HL17296-02	51,360
BOWMAN, JAMES E.	SUPPORT FOR COMPREHENSIVE SICKLE CELL CENTER.	3P60 HL16005-02S2	9,709
BOWMAN, JAMES E.	SUPPORT FOR COMPREHENSIVE SICKLE CELL CENTER.	5P60 HL16005-01S	428,591
BOYER, JAMES L.	MECHANISMS OF BILE SECRETION-ROLE OF SODIUM TRANSPORT.	5R01 AM17153-03	67,638
BUTLER, ROBERT A.	THE ROLE OF SPECTRAL CUES IN SOUND LOCALIZATION.	2R01 NS11154-02	60,049
CHIANG, KWEN-SHENG	NUCLEUS-ORGANELLE INTERACTION AND DIFFERENTIATION.	5R01 GM21955-02	37,157
CHIANG, KWEN-SHENG	MEIOSIS AND REPRODUCTION.	5R01 HD05804-06	68,097
COHEN, LOUIS.	DUCHENNE'S MUSCULAR DYSTROPHY: THERAPY & BASIC STUDIES.	5R01 NS10385-03	54,778
COULTER, CHARLES L.	PANCREATIC HORMONES: STRUCTURE AND FUNCTION.	5R01 AM18392-02	35,452
COZZARELLI, NICHOLAS R.	ENZYMOLOGICAL AND GENETIC STUDIES OF DNA POLYMERASES.	5R01 GM21397-02	57,519
COZZARELLI, NICHOLAS R.	RNA LIGASE FUNCTION AND USE IN DNA SYNTHESIS.	1R01 GM22729-01	56,572
CREWE, ALBERT V.	SCANNING MICROSCOPE LABORATORY FOR GENERAL FACULTY USE.	3P41 RR00984-01S1	47,597
DAWSON, GLYN	GLYCOSPHINGOLIPID METABOLISM AND MENTAL RETARDATION.	5R01 HD06426-05	56,455
DE BRUYN, PETER P.	LEUKOPOIETIC MECHANISMS.	2R01 CA05493-16	138,191
DE GROOT, LESLIE J.	BIOSYNTHESIS AND ACTION OF THYROID HORMONE.	2R01 AM13377-09	105,203
DE GROOT, LESLIE J.	THYROGLOBULIN MRNA: ISOLATION AND CHARACTERIZATION.	5R01 AM17310-03	48,337
DE GROOT, LESLIE J.	CONFERENCE ON RADIATION ASSOCIATED THYROID CANCER.	1R13 CA19159-01	11,280
DEUEL, THOMAS F.	ENZYME REGULATION IN NORMAL AND NEOPLASTIC CELLS.	2R01 CA13980-04	71,376
DORFMAN, ALBERT	BIOCHEMISTRY AND BIOLOGY OF CONNECTIVE TISSUE.	5P01 AM05996-15	235,613
DORFMAN, ALBERT	CENTER GRANT FOR MENTAL RETARDATION RESEARCH CENTER.	5P30 HD04583-08	414,464
DORFMAN, ALBERT	BIOLOGICAL BASIS OF MENTAL RETARDATION.	5P01 HD09402-02	244,646
DORFMAN, ALBERT	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.	5M01 RR00305-10	497,916
EMMANUEL, DIMITRIOS S.	ENDOCRINE ABNORMALITIES IN UREMIA.	1R01 AM19250-01	44,127
ENKER, WARREN E.	EXPERIMENTAL COLONIC CARCINOMA-IMMUNOLOGICAL EVALUATION.	5R01 CA15777-03	58,033
EPSTEIN, WOLFGANG.	REGULATION OF CYCLIC AMP IN E. COLI.	1R01 AI12924-01	40,401
EPSTEIN, WOLFGANG.	MECHANISM OF POTASSIUM TRANSPORT IN E. COLI.	5R01 GM22323-02	25,072
EPSTEIN, WOLFGANG.	ISOLATION AND CHARACTERIZATION OF THE RECA PROTEIN.	1R01 GM23016-01	45,411
ERNEST, J. TERRY.	FACTORS AFFECTING OPTIC PAPILLA OXYGENATION.	5R01 EY00792-05	28,965
FITCH, FRANK W.	ANTIBODY FORMATION BY LYMPHOID CELLS.	5R01 AI04197-15	39,111
FOX, EUGENE N.	THE CHEMISTRY AND IMMUNOLOGY OF STREPTOCOCCAL ANTIGENS.	5R01 AI04342-15	102,434
FOZZARD, HARRY A.	MECHANISM OF THE HEART BEAT.	2R01 HL11665-10	68,586
FRIED, JOSEF.	SYNTHESIS OF PROSTAGLANDINS AND PROSTAGLANDIN ANALOGS.	5R01 AM11499-10	81,736
FRIEDMANN, HERBERT C.	ENZYME STUDIES ON VITAMIN B12 AND ITS CONSTITUENTS.	5R01 AM09134-11	51,091
GARBER, BEATRICE B.	NEURAL CELL RECOGNITION FACTORS IN BRAIN HISTOGENESIS.	3R01 NS10714-03S1	15,190
GARBER, BEATRICE B.	NEURAL CELL RECOGNITION FACTORS IN BRAIN HISTOGENESIS.	2R01 NS10714-04	70,905
GETZ, GODFREY S.	LIPIDS AND CONTROL OF MITOCHONDRIAL BIOGENESIS.	5R01 GM18858-05	81,692
GILL, WILLIAM B.	CALCIUM OXALATE SUPERSATURATION AND CRYSTALLIZATION.	5R01 AM17719-03	55,605
GOEDKEN, VIRGIL L.	THE CHEMISTRY OF IRON IN HIGHLY UNSATURATED LIGANDS.	5R01 HL14827-05	65,014
GOLDBERG, JAY M.	PHYSIOLOGY OF VESTIBULAR SYSTEM.	5R01 NS01330-20	104,286
GOLDBERG, LEON I.	CLINICAL PHARMACOLOGY CENTER.	1P50 GM22220-01A1	455,809
GOLDWASSER, EUGENE.	FORMATION OF ERYTHROPOIETIN IN CELL CULTURE.	5R01 AM17498-03	44,546
GOLDWASSER, EUGENE.	HEMOPOIETIC STEM CELLS AND INDUCED DIFFERENTIATION.	5R01 CA18375-02	49,483
GRIEM, MELVIN L.	RADIATION & DRUG STUDIES IN GROWING & RESTING HAIR.	1R01 CA20692-01	47,093
GROBSTEIN, PAUL.	DEVELOPMENT OF CONNECTIVITY IN VISUAL SYSTEMS.	1R01 EY01658-01	36,516
GUNN, ROBERT B.	MOLECULAR MECHANISMS OF ANION TRANSPORT.	7R01 HL20365-01	37,795
HALPERN, JACK.	METAL COMPLEXES RELATED TO VITAMIN B12.	5R01 AM13339-08	69,730
HARVEY, RONALD G.	CHEMISTRY OF CARCINOGENIC HYDROCARBONS.	5R01 CA11968-05	48,027
HARVEY, RONALD G.	SYNTHESIS OF METABOLITES OF CARCINOGENIC HYDROCARBONS.	1R01 CA19448-01	38,900
HASELKORN, ROBERT.	PROTEIN SYNTHESIS IN VIRUS-INFECTED BACTERIA.	5R01 AI09315-12	104,250
HASELKORN, ROBERT.	DIFFERENTIATION IN NITROGEN-FIXING BLUE-GREEN ALGAE.	5R01 GM21823-02	39,896
HAVIGHURST, ROBERT J.	HIGH LEVEL PRODUCTIVITY AFTER AGE SEVENTY.	5R01 AG00488-02	29,030
HELLER, ALFRED.	ONTOGENESIS AND NEUROCHEMISTRY OF BRAIN FUNCTION.	5P01 NS12324-02	392,498
HERBST, ARTHUR L.	MATERNAL STILBESTROL - CARCINOGENIC EFFECT ON OFFSPRING.	7R01 CA20084-01	91,324



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
HOPPER, JOHN E.....	STUDIES ON GENETIC CONTROL OF IMMUNOGLOBULIN SYNTHESIS.....	5R01 AI10580-05	45,350
HOPPER, JOHN E.....	STUDIES ON GENETIC CONTROL OF IMMUNOGLOBULIN SYNTHESIS.....	5R01 AI10580-06	70,536
HORMITZ, DAVID L.....	ENDOGENOUS AND EXOGENOUS INSULIN IN DIABETES MELLITUS.....	1R01 AM19206-01	51,580
HUBBY, JOHN L.....	GENETIC STUDIES OF PROTEIN DIFFERENCES.....	5R01 GM11216-13	68,861
HUGGINS, CHARLES B.....	HORMONAL CONTROL OF MAMMARY CANCER AND LEUKEMIA.....	2R01 CA11603-07	198,437
HUGGINS, CHARLES B.....	HORMONAL CONTROL OF MAMMARY CANCER AND LEUKEMIA.....	5R01 CA11603-08	219,726
HUNTER, ROBERT L.....	SELECTIVE STIMULATION OF CELL-MEDIATED CANCER IMMUNITY.....	2R01 CA14364-04	66,394
HUNTER, ROBERT L.....	IMMUNOLOGIC EVALUATION AND THERAPY OF BREAST CANCER.....	5R01 CA17525-02	75,041
HUTCHENS, JOHN O.....	RETENTION OF AEROSOLS IN LABORATORY ANIMALS.....	5R01 ES00855-03	71,533
HUTCHISON, CLYDE A, JR.....	LOCAL STRUCTURE IN ENZYMES—A NEW APPROACH.....	5R01 GM21668-02	72,706
HUTTENLOCHER, JANELLEN.....	CONCEPTUAL DEVELOPMENT AND LANGUAGE COMPREHENSION.....	5R01 HD09283-02	65,325
HUTTENLOCHER, JANELLEN.....	CONCEPTUAL DEVELOPMENT AND LANGUAGE COMPREHENSION.....	5R01 HD09283-03	67,356
HUTTENLOCHER, PETER R.....	SYNAPTIC AND DENDRITIC DEVELOPMENT AND MENTAL DEFECT.....	5R01 HD09335-02	44,586
JARABAK, JOSEPH W.....	PROSTAGLANDIN METABOLISM IN THE HUMAN PLACENTA.....	2R01 HD07045-04	57,352
JARABAK, JOSEPH W.....	PROSTAGLANDIN METABOLISM IN THE HUMAN PLACENTA.....	5R01 HD07045-05	51,553
JENSEN, ELWOOD V.....	STERIODS AND GROWTH.....	5R01 CA02897-20	136,333
JOHNSON, GALE D.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07029-11	106,921
KAISER, EMIL T.....	SELECTIVE ALKYLATION IN BIOLOGICAL SYSTEMS.....	5R01 CA17150-02	56,202
KAISER, EMIL T.....	A STUDY OF THE BASIS OF CYCLIC AMP ACTION.....	5R01 GM19037-05	22,012
KANE, EILEEN S.....	CENTRAL AUDITORY SYSTEM CONNECTIONS IN MAMMALS.....	5R01 NS12071-02	24,967
KATZ, ADRIAN I.....	NA-K-ATPASE AND RENAL TUBULAR TRANSPORT OF SODIUM.....	5R01 AM13601-05	43,374
KATZ, ADRIAN I.....	NA-K-ATPASE AND RENAL TUBULAR TRANSPORT OF SODIUM.....	5R01 AM13601-06	45,219
KEZDY, FERENC J.....	PHYSICAL AND CATALYTIC BEHAVIOR OF HYDROLYTIC ENZYMES.....	5R01 GM13885-11	67,943
KIEFF, ELLIOTT D.....	EBV INTERACTION WITH LYMPHOBLASTS IN VITRO AND IN VIVO.....	5R01 CA17281-02	48,839
KIRSTEN, WERNER H.....	TRANSFORMATION OF HUMAN CELLS.....	2R01 CA14898-04	91,636
KLEIN, PETER D.....	BILE ACID TRANSFORMATIONS IN GALLSTONE THERAPY.....	5R01 AM17862-02	74,520
KLEIN, PETER D.....	METABOLISM OF 13C COMPOUNDS IN DIGESTIVE DISEASES.....	1R01 AM18741-01	182,260
KOHLER, HEINZ.....	ANTIGEN AND ANTIBODY IN THE IMMUNE RESPONSE.....	2R01 AI11080-04	83,165
KOHLER, HEINZ.....	STRUCTURE OF THE MAJOR RED CELL MEMBRANE POLYPEPTIDE.....	1R01 GM22722-01	68,912
LANDAU, RICHARD L.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00055-15	566,331
LARRAMENDI, LUIS M.....	ELECTRONMICROSCOPIC STUDIES OF SYNAPTOGENESIS.....	5R01 NS10454-05	66,155
LAW, JOHN H.....	STUDY OF LIPID METABOLISM.....	2R01 GM13863-11	108,085
LEVI-SETTI, RICCARDO.....	EXPERIMENTAL 100 KEV PROTON SCANNING MICROSCOPE.....	2R01 GM20869-03	113,520
LEVIN, BERNARD.....	SURFACE ULTRASTRUCTURE OF MALIGNANT COLON EPITHELIUM.....	5R26 CA16918-02	52,438
LEWERT, ROBERT M.....	PHILLIPPINE SCHISTOSOMIASIS JAPONICA: IMMUNE RESPONSES.....	2R22 AI07724-10	94,467
LIAO, SHUTSUNG.....	MACROMOLECULAR SYNTHESIS IN ACCESSORY GENITAL ORGANS.....	5R01 AM09461-11	98,127
LIM, RAMON.....	STUDIES ON BRAIN PROTEINS.....	2R01 NS09228-03	95,890
LINDHEIMER, MARSHALL D.....	RENAL FUNCTIONAL CORRELATES OF ABNORMAL PREGNANCY.....	5R01 HD05872-05	40,205
MAKINEN, MARVIN W.....	ENZYME COMPLEXES IN CRYSTALS—A NEW APPROACH.....	5R01 GM21900-02	49,839
MANASEK, FRANCIS J.....	FACTORS REGULATING EMBRYONIC CARDIAC MORPHOGENESIS.....	5R01 HL13831-05	94,877
MANASEK, FRANCIS J.....	FACTORS REGULATING EMBRYONIC CARDIAC MORPHOGENESIS.....	5R01 HL13831-06	110,261
MARKOVITZ, ALVIN.....	CAPSULE SYNTHESIS, DIVISION, AND RADIATION SENSITIVITY.....	2R01 AI06966-11A1	98,010
MARTIN, TERENCE E.....	RNA SYNTHESIS AND TRANSPORT IN MAMMALIAN CELLS.....	5R01 CA12550-05	55,818
MARTIN, WILLIAM R.....	BIOCHEMICAL ANALYSIS OF ADULT S. JAPONICUM EXO ANTIGENS.....	5R22 AI12497-02	42,105
MEIER, PAUL.....	STATISTICAL INFERENCE IN CLINICAL RESEARCH.....	1R01 GM22648-01	51,916
MEWISSEN, DIEUDONNE J.....	POTENTIAL CARCINOGENIC AND GENETIC EFFECTS OF TRITIUM.....	5R01 CA13080-05	147,678
MOLTZ, HOWARD.....	ENDOCRINE REGULATION OF MATERNAL BEHAVIOR.....	5R01 HD06872-04	43,459
MOLTZ, HOWARD.....	ENDOCRINE REGULATION OF MATERNAL BEHAVIOR.....	5R01 HD06872-05	46,821
MOSCONA, ARON A.....	CELLULAR AND MOLECULAR CONTROLS IN NEURODIFFERENTIATION.....	5R01 HD01253-18	147,327
MOULDER, JAMES W.....	STUDIES ON THE PSITTACOSIS GROUP OF ORGANISMS.....	5R01 AI01594-20	76,398
MOULDER, JAMES W.....	PHAGOCYTOSIS OF CHLAMYDIAE.....	5R01 AI13175-02	51,673
MULLAN, JOHN F.....	STUDY OF HEAD INJURIES.....	5P50 NS07376-09	249,952
NAUNTON, RALPH F.....	SENSORY CLINICAL RESEARCH CENTER.....	5P50 NS03358-15	458,405
NEUGARTEN, BERNICE L.....	ADULT LIVES AND PATTERNS OF AGING IN AN URBAN SETTING.....	1P01 AG00123-01	221,000
NEWELL, FRANK W.....	RETINAL AND CHOROIDAL DISEASE CENTER.....	2P50 EY00523-15	111,717
OPARIL, SUZANNE.....	MECHANISM OF RENIN RELEASE AND ANGIOTENSIN METABOLISM.....	2R01 HL14982-04	56,043
OPARIL, SUZANNE.....	MECHANISM OF RENIN RELEASE AND ANGIOTENSIN METABOLISM.....	5R01 HL14982-05	74,033
OXNARD, CHARLES E.....	STUDY OF STRUCTURE AND BIOMECHANICS OF BONE.....	5R01 AM16805-03	56,279
PAGE, ERNEST.....	STUDY OF CARDIAC ULTRASTRUCTURE AND ION TRANSPORT.....	5R01 HL10503-11	137,993
POKORNY, JOEL M.....	PSYCHOPHYSICAL STUDIES OF COLOR-DEFECTIVE OBSERVERS.....	5R01 EY00901-03	19,644



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
PROCTOR, LEONARD R.	STUDY OF VESTIBULAR PATHWAYS IN THE CEREBELLUM	5R01 NS09613-05	25,721
RABINOWITZ, MURRAY	MITOCHONDRIAL ASSEMBLY AND REPLICATION	5R01 HL04442-18	106,540
RABINOWITZ, MURRAY	PROTEIN AND RNA SYNTHESIS IN HEART MUSCLE	5R01 HL09172-12	120,394
RABINOWITZ, MURRAY	PROTEIN AND RNA SYNTHESIS IN HEART MUSCLE	5R01 HL09172-13	131,899
RAMACHANDRAN, G. N.	THEORETICAL STUDIES ON PROTEIN STRUCTURE	5R01 AM11493-10	43,962
RAVIN, ARNOLD W.	DISCRIMINATION IN THE GENETIC TRANSFORMATION OF BACTERIA	5R01 AI09117-08	57,608
REFETOFF, SAMUEL	METABOLISM OF THYROID HORMONE BY CELLS IN TISSUE CULTURE	5R01 AM15070-05	84,831
RESNEKOV, LEON	STUDY OF ISCHEMIC HEART DISEASE	5P50 HL17648-02	1,133,948
RICE, STUART A.	WATER: EXPERIMENTAL AND THEORETICAL STUDIES	1R01 GM22728-01	60,273
RINGO, GEORGE R.	AN ION MICROPROBE ANALYZER FOR BIOLOGY	2R01 GM21184-03	89,732
ROBERTSON, ANTHONY D.	GENETIC ANALYSIS OF SLIME MOLD AGGREGATION	2R01 HD04722-04	112,174
ROIZMAN, BERNARD	MECHANISMS OF VIRAL INFECTION IN RELATION TO CANCER	2R01 CA08494-11	107,680
ROIZMAN, BERNARD	MECHANISMS OF VIRAL INFECTION IN RELATION TO CANCER	5R01 CA08494-12	120,184
ROSENBERG, IRWIN H.	ABSORPTION OF MONOGLUTAMYL AND POLYGLUTAMYL FOLATES	5R01 AM15351-05	126,543
ROSENBERG, IRWIN H.	ABSORPTION OF MONOGLUTAMYL AND POLYGLUTAMYL FOLATES	5R01 AM15351-06	135,722
ROSENFELD, ROBERT L.	FREE PLASMA SEX HORMONE AND ANDROGEN ACTION	5R01 HD06308-05	59,253
ROSSMANN, KURT	STUDY OF RADIOLOGIC IMAGES	5P50 GM18940-04	483,872
ROSSMANN, KURT	STUDY OF RADIOLOGIC IMAGES	5P50 GM18940-05	617,998
ROTHBERG, RICHARD M.	IMMUNE RESPONSES OF NEWBORNS TO INGESTED ANTIGENS	5R01 AI07854-09	35,765
ROTHMAN-DENES, LUCIA B.	NOVEL TRANSCRIBING ACTIVITIES IN N-4-INFECTED E. COLI	5R01 AI12575-02	63,337
ROWLEY, DONALD A.	SPECIFIC SUPPRESSION OF CELL-MEDIATED IMMUNE RESPONSE	5R01 AI09268-08	90,538
ROWLEY, DONALD A.	PATHOLOGIC STUDIES ON INFLAMMATION AND IMMUNITY	5R01 AI10242-16	63,190
ROWLEY, DONALD A.	ANTIBODY DEPENDENT CELL MEDIATED CYTOTOXICITY	5R01 AI12235-03	53,504
ROWLEY, JANET D.	CHROMOSOME ABERRATIONS IN CANCER	1R01 CA16910-01A1	68,480
RUBENSTEIN, ARTHUR H.	PROINSULIN AND C-PEPTIDE: SECRETION AND METABOLISM	5R01 AM13941-07	75,335
SCANU, ANGELO M.	NATURE AND FUNCTION OF PLASMA LIPOPROTEINS	3R01 HL08727-11S1	16,912
SCANU, ANGELO M.	LIPOPROTEINS—CELL SURFACE INTERACTIONS	1P01 HL18577-01	324,062
SCHOENBERG, HARRY W.	METHODS OF MANAGING THE NEUROGENIC BLADDER	7R01 AM19523-01	48,530
SIGLER, PAUL B.	STRUCTURAL ANALYSIS OF BIOLOGICAL MACROMOLECULES	5R01 GM15225-08	45,502
SIGLER, PAUL B.	MOLECULAR INTERACTIONS AT THE CELL SURFACE	5R01 GM22324-02	40,519
SLATKIN, MONTGOMERY W.	THE GENETICAL CONSEQUENCES OF DISPERSAL AND EXTINCTION	1R01 GM12523-01	54,105
SLAUGHTER, DIANA T.	STUDY OF PARENT-EDUCATION PROGRAMS	5R01 HD08533-03	55,337
SOLIN, STUART A.	RAMAN SPECTROSCOPIC STUDIES OF THE LENS OF THE EYE	1R01 EY01623-01A1	33,480
SPARGO, BENJAMIN H.	MEMBRANES AND PHOSPHOLIPIDS IN RENAL HYPERPLASIA	5R01 GM22328-02	74,446
SPARGO, BENJAMIN H.	ZONAL RENAL CHANGE WITH POTASSIUM DEFICIENCY	5R01 HL02986-20	41,156
SPARGO, BENJAMIN H.	ULTRASTRUCTURAL RENAL PATHOLOGY	5R01 HL10980-10	49,795
SPOFFORD, JANICE B.	MECHANISM OF POSITION-EFFECT VARIATION	5R01 GM22040-02	48,488
STECK, THEODORE L.	MEMBRANE DIFFERENTIATION IN AGGREGATING D. DISCOIDEUM	5R01 GM22321-02	64,092
STEINER, DONALD F.	STUDIES ON PANCREATIC HORMONES	5R01 AM13914-07	191,553
STEINER, DONALD F.	DIABETES ENDOCRINOLOGY CENTER	5P30 AM17046-03	367,042
STRAUSS, BERNARD S.	BIOLOGY OF HUMAN LYMPHOBLASTOID CELL LINES	5R01 AI12116-03	64,123
STRAUSS, BERNARD S.	A STUDY OF THE MODE OF ACTION OF CHEMICAL MUTAGENS	5R01 GM07816-17	75,387
STUART, FRANK P.	IMMUNOLOGICAL ENHANCEMENT OF RENAL ALLOGRAFTS	9R01 CA20091-09	114,356
TAGER, HOWARD S.	BIOSYNTHESIS AND SECRETION OF PEPTIDE HORMONES	5R01 AM18347-02	27,208
TAGER, HOWARD S.	BIOSYNTHESIS AND SECRETION OF PEPTIDE HORMONES	5R01 AM18347-03	28,593
TAYLOR, EDWIN W.	CHEMISTRY AND MECHANISM OF MOTILE SYSTEMS	5R01 GM10992-15	47,352
THROCKMORTON, LYNN H.	PROTEIN DIFFERENTIATION IN DROSOPHILA	1R01 GM23007-01	94,291
TOBACK, FREDERICK G.	BIOCHEMICAL REGULATION OF CONTROLLED RENAL GROWTH	5R01 AM18413-02	51,283
TOSTESON, DANIEL C.	MECHANISMS AND FUNCTIONS OF MEMBRANE ION TRANSPORT	1R01 HL19951-01	253,358
TOSTESON, DANIEL C.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05367-15	261,305
ULINSKI, PHILIP S.	LAMINAR STRUCTURES	5R01 NS12518-02	30,384
ULTMANN, JOHN E.	CANCER RESEARCH PROGRAM	5P30 CA14599-03	2,048,283
ULTMANN, JOHN E.	VIRAL ONCOLOGY RESEARCH CENTER PROGRAM	1P01 CA19264-01	653,182
ULTMANN, JOHN E.	CANCER BIOLOGY RESEARCH CENTER PROGRAM	1P01 CA19265-01	568,738
ULTMANN, JOHN E.	SUPPORT FOR CLINICAL CANCER RESEARCH	1P01 CA19266-01	484,548
WARNOCK, MARTHA L.	ASBESTOS AND CANCER	5R01 ES01122-02	23,420
WEISS, SAMUEL B.	VIRUS DEVELOPMENT AND TRANSLATIONAL CONTROL	5R01 AI12479-05	51,568
WESTLEY, JOHN L.	SULFANES IN METABOLISM	2R01 GM18939-05	91,667
WHITE, STEPHEN L.	THE PROPERTIES OF COBALTOUS HEMOGLOBIN DERIVATIVES	1R23 HL19562-01	46,992
WIED, GEORGE L.	AUTOMATED CANCER CELL DIAGNOSIS BY THE TICAS METHOD	5R01 CA13271-08	194,029

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
WILLIAMS-ASHMAN, HOWARD G.....	BIOCHEMISTRY OF THE MALE GENITAL TRACT.....	5R01 HD04592-08	114,914
WILLIAMS-ASHMAN, HOWARD G.....	SUPPORT FOR BIOMEDICAL CENTER FOR POPULATION RESEARCH.....	5P30 HD07110-04	215,256
WILLIAMS-ASHMAN, HOWARD G.....	SUPPORT FOR BIOMEDICAL CENTER FOR POPULATION RESEARCH.....	5P30 HD07110-05	346,312
WISSLER, ROBERT W.....	STUDY OF LIPOPROTEINS, ARTERY WALL, AND ATHEROSCLEROSIS.....	5P50 HL15062-05	906,443
WONG, TING-WA.....	EFFECT OF THYROXINE ON TRNA METABOLISM OF THE BRAIN.....	5R01 HD06477-05	34,367
WOOL, IRA G.....	ENDOCRINE REGULATION OF PROTEIN SYNTHESIS.....	5R01 AM04842-15	96,871
WOOL, IRA G.....	THE STRUCTURE AND FUNCTION OF EUKARYOTIC RIBOSOMES.....	5R01 GM21769-02	84,709
YANG, NIEN-CHU C.....	MOLECULAR MECHANISMS OF MUTAGENESIS AND CARCINOGENESIS.....	5R01 CA10220-08	62,654
YANG, NIEN-CHU C.....	PHOTOCHEMICAL SYNTHESIS OF ORGANIC COMPOUNDS.....	5R01 GM20329-09	76,701
YANG, NIEN-CHU C.....	PHOTOCHEMICAL SYNTHESIS OF ORGANIC COMPOUNDS.....	5R01 GM20329-10	91,034
ZAK, RADOVAN H.....	DEVELOPMENT AND REGRESSION OF CARDIAC HYPERTROPHY.....	5R01 HL16637-02	64,783
ZEITLER, ELMAR.....	1-MEV SCANNING TRANSMISSION ELECTRON MICROSCOPE.....	5R01 GM19079-05	160,059
ORGANIZATION TOTAL	190 24,505,894		
<b>UNIVERSITY OF HEALTH SCIENCES ZIP CODE 60612</b>			
ALBACH, RICHARD A.....	STUDIES ON THE NATURE OF ENTAMOEBA HISTOLYTICA.....	5R01 AI08004-09	32,960
BLIVAUS, BEN.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05366-15	31,836
EZDINLI, EDIZ Z.....	COOPERATIVE STUDY OF ONCOLOGY.....	5R10 CA14144-04	83,610
EZDINLI, EDIZ Z.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	5P20 CA16208-02	43,947
FREES, UWE E.....	ESTROGEN AND PROGESTERONE RECEPTORS IN MOUSE OVUIDUCT.....	1R01 HD10070-01	31,293
HANSEN, TIMOTHY R.....	VASCULAR SMOOTH MUSCLE IN HYPERTENSION.....	1R01 HL19226-01	34,242
KEMP, ROBERT G.....	ALLOSTERIC PROPERTIES OF PHOSPHOFRUCTOKINASE.....	7R01 AM19912-01	37,791
KEMP, ROBERT G.....	METABOLIC EVENTS IN VIRUS-INDUCED LEUKEMOGENESIS.....	7R01 CA21631-01	57,500
THAEMERT, JONA C.....	ULTRASTRUCTURE OF THE CONDUCTION SYSTEM OF THE HEART.....	5R01 HL18011-02	46,733
ORGANIZATION TOTAL	9 399,912		
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE ZIP CODE 60680</b>			
BOUCK, GEORGE B.....	STRUCTURAL AND FUNCTIONAL ORGANELLE INTERACTIONS.....	3R01 GM19537-04S1	8,534
BOUCK, GEORGE B.....	STRUCTURAL AND FUNCTIONAL ORGANELLE INTERACTIONS.....	5R01 GM19537-05	39,958
EWER, PHYLLIS A.....	THE ROLE OF TASTES IN THE ECONOMIC MODEL OF FERTILITY.....	5R01 HD09225-02	9,508
FERRO, ADOLPH J.....	THE ROLES OF SAM IN THE REGULATION OF MITOSIS.....	1R01 GM23307-01	56,818
GORENSTEIN, DAVID G.....	NMR PROBES OF ENZYMES COMPLEXES.....	5R01 GM17575-05	36,841
HULETT, F MARION.....	MEMBRANE PROTEIN-MEMBRANE REASSOCIATION STUDIES.....	1R01 GM21909-01A1	43,786
KOSOBUD, RICHARD F.....	SYSTEMS STUDY OF POPULATION AND ECONOMIC CHANGE.....	5R01 HD06966-04	40,498
MC CORMICK, BRUCE H.....	IMAGE PROCESSING FOR CLINICAL OPHTHALMOSCOPY.....	3R01 EY01261-01S1	31,333
MC CORMICK, BRUCE H.....	IMAGE PROCESSING FOR CLINICAL OPHTHALMOSCOPY.....	2R01 EY01261-02	241,786
OSCAI, LAWRENCE B.....	EFFECT OF EXERCISE ON ADIPOSE TISSUE CELLULARITY.....	5R01 AM17357-03	40,764
PENNEY, DAVID G.....	CARBON MONOXIDE: CHRONIC EFFECTS ON HEART.....	5R01 HL16367-02	23,680
ROCEK, JAN.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR07158-01	40,811
SCHULTZ, ALBERT B.....	BIOMECHANICAL STUDIES OF IDIOPATHIC SCOLIOSIS.....	5R01 AM15575-05	86,077
ORGANIZATION TOTAL	13 700,394		
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER ZIP CODE 60612</b>			
ANDERSON, CONWELL H.....	HYPOTHALAMIC MATURATION PARALLELING PUBERTY.....	2R01 HD05865-04	23,865
ARSENIS, CHARALAMPOS.....	CELLULAR MECHANISMS OF CALCIFICATION.....	5R01 AM14974-06	48,703
BARANY, MICHAEL.....	PROTEIN PHOSPHORYLATION IN MUSCLE.....	5R01 NS12172-02	39,112
BOMBICK, CHARLES T.....	PHYSIOLOGY & TREATMENT OF GASTROESOPHAGEAL INCOMPETENCE.....	5R01 AM11835-08	33,080
COHEN, CARL.....	THE IMMUNOBIOLOGY OF THE LABORATORY RABBIT.....	5R01 GM18350-06	50,163
COHEN, CARL.....	THE IMMUNOBIOLOGY OF THE LABORATORY RABBIT.....	5P40 RR00627-06	94,063
COTLER, EDWARD M.....	BIOCHEMICAL STUDIES IN NORMAL AND CATARACTOUS LENSES.....	5R01 EY00703-06	53,130
DAS GUPTA, TAPAS K.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA12277-05S1	40,086
DAS GUPTA, TAPAS K.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	2P20 CA14878-02	26,992
DAS GUPTA, TAPAS K.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17954-02	132,266
DOUGHTY, CLYDE C.....	ALDOSE REDUCTASE SUBUNITS.....	5R01 EY00449-06	36,316
DRAY, SHELTON.....	IMMUNOGLOBULIN ALLOTYPES.....	2R01 AI07043-11	146,446
DRAY, SHELTON.....	IMMUNOGLOBULIN ALLOTYPES.....	5R01 AI07043-12	158,958
DRAY, SHELTON.....	TUMOR IMMUNOTHERAPY WITH 'IMMUNE' RNA.....	1R01 CA18241-01	131,513
EISENMANN, DALE R.....	CELLULAR CONTROL OF MINERALIZATION.....	5R01 DE03312-05	21,660
EPSTEIN, SAMUEL S.....	CHEMICAL CARCINOGENS IN THE PANCREAS.....	1R26 CA20914-01	62,989
FRIEDENSON, BERNARD A.....	IGG ANTIBODIES WITH THE SAME HEAVY OR LIGHT CHAIN.....	5R01 AI12363-02	60,001

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
HAHN, JEROME J.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05369-15	174,310
HENDERSON, THOMAS O.	LIPIDS AND ALKYLPHOSPHONATES	5R01 GM20127-05	29,076
HERRING, SUSAN W.	PHYSIOLOGY OF FEEDING IN MINIATURE PIGS	5R23 DE03806-03	11,100
HILDING, DAVID A.	ELECTRON MICROSCOPY AND HISTOCHEMISTRY OF INNER EAR	7R01 NS13388-01	81,233
JACKSON, GEORGE G.	VIRAL RESPIRATORY DISEASES: CAUSES & IMMUNE RESPONSES	5R01 AI04059-15	56,603
JAFFE, RANDAL C.	THYROID HORMONE REGULATION OF TADPOLE METAMORPHOSIS	1R01 AM18985-01	34,468
JONASSON, OLGA.	DIABETES AND ISLET CELL STUDIES IN THE PRIMATE	1R01 AM18284-01A1	153,802
KATZ, NORMAN L.	PHYSIOLOGY AND PHARMACOLOGY OF MOTOR NERVE-TERMINALS	5R01 NS11901-02	19,889
KNIGHT, KATHERINE L.	STRUCTURE AND GENETIC CONTROL OF RABBIT IGA	2R01 AI11234-04	79,782
KUSEK, JUDITH C.	INTRACELLULAR CALCIUM METABOLISM IN SALIVARY GLANDS	5R01 DE04081-03	21,330
LASKIN, DANIEL M.	PSYCHOPHYSIOLOGY OF TMJ & OTHER FACIAL PAIN SYNDROMES	5R01 DE02899-08	101,984
LAZARUS, MARLENE L.	DEVELOPMENT OF NORMAL AND MYOPATHIC MAMMALIAN HEART	5R01 HL18032-02	49,032
LEVITSKY, SIDNEY	HEART TRACKING: NON-INVASIVE MEASURE OF CONTRACTILITY	2R01 HL14026-04A1	96,760
LOIZIZ, ROBERT F.	INTRAOPERATIVE PROTECTION OF THE MYOCARDIUM	5R01 HL18288-02	118,786
LOURENCO, RUY V.	CYCLIC NUCLEOTIDES AND THE REGULATION OF LACTATION	5R01 HD09035-02	37,724
MADISON, VINCENT S.	DEFENSE MECHANISMS IN PATHOGENESIS OF EMPHYSEMA	2R01 HL13824-04A1	28,653
MEYER, JULIA	ROLE OF PEPTIDE-SOLVENT AND PEPTIDE-LIPID COMPLEXES	1R01 GM22514-01	62,811
MOLNAR, JANOS	STUDIES ON NORMAL AND ALTERED ORAL MUCOSA	5R01 DE02342-08	79,239
MOLNAR, JANOS	BIOCHEMICAL STUDIES OF A MAJOR OPSONIC PROTEIN	5R01 AI12142-02	20,753
MORRIS, PAUL W.	BIOCHEMICAL STUDIES OF A MAJOR OPSONIC PROTEIN	5R01 AI12142-03	26,075
MUHL, ZANE F.	EUKARYOTE RNA POLYMERASE-DNA SITE SELECTION PROCESSES	5R01 GM22147-02	37,767
OMACHI, AKIRA	FUNCTIONAL PROPERTIES OF MAMMALIAN MASTICATORY MUSCLE	5R23 DE04164-02	14,921
PEYMAN, GHOLAM A.	ION TRANSPORT ACROSS MAMMALIAN CELL MEMBRANE	5R01 HL13567-05	36,029
PROUDFIT, HERBERT K.	INTRAVITREAL SURGERY TECHNIQUES	3R01 EY01107-03S1	1,601
PRUZANSKY, SAMUEL	BULBOSPINAL MECHANISMS INVOLVED IN MORPHINE ANALGESIA	5R01 NS12649-02	47,532
RABB, MAURICE F.	STUDY OF CRANIOFACIAL ANOMALIES	5P01 DE02872-07	287,518
RADULOVACKI, MIODRAG	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	5P60 HL15168-05	527,961
RAFFERTY, KEEN A, JR.	SLEEP, HYPNOTICS AND BRAIN MONOAMINE METABOLISM	5R01 NS10921-03	36,506
REBA, RICHARD C.	CELL ANALYSIS OF SOME VIRUS-ASSOCIATED TUMORS OF MAN	5R01 CA13494-04	30,187
REITER, HARVARD	SYNTHESIS OF MOLECULES FOR MYOCARDIAL IMAGING	7R01 HL19127-01	58,431
REITER, HARVARD	MEMBRANE-ACTIVE INHIBITORS OF DNA REPLICATION	5R01 CA17123-05	31,036
REYNOLDS, WYNETKA A.	MOLECULAR MECHANISM OF ALLELIC EXCLUSION	5R01 CA18645-02	45,846
RODGERS, CHARLES H.	TOXICITY OF ORGANIC MERCURY FOR THE FETUS AND NEWBORN	3R01 ES00820-03S1	30,178
RODGERS, CHARLES H.	NEURAL REGULATION OF SEX BEHAVIOR IN THE FEMALE	5R01 HD06926-03	26,306
ROSEN, KENNETH M.	NEURAL REGULATION OF SEX BEHAVIOR IN THE FEMALE	5R01 HL18794-02	99,478
ROTKIN, I D.	PROSPECTIVE STUDIES OF CONDUCTION DISEASE	5R26 CA16925-02	65,292
ROTKIN, I D.	EPIDEMIOLOGIC AND GENETIC STUDIES IN PROSTATIC CANCER	5R26 CA16925-03	101,877
SANDERS, DONALD R.	A BIOCHEMICAL CLASSIFICATION FOR CATARACTOUS LENSES	5R23 EY01446-02	11,100
SCHLUSELFELD, LOUIS H.	HEART, PLATELET, MUSCLE MYOSINS AND ACTOMYOSINS	5R01 HL18179-02	40,488
SHARP, JOHN T.	RESPIRATORY MUSCLES AND VENTILATORY CONTROL IN MAN	2R01 HL08789-09	50,840
TAO, MARIANO	PHOSPHORYLATION OF ADENOVIRAL-ASSOCIATED PROTEINS	5R01 CA17036-03	37,093
TEODORESCU, MARIUS	DIFFERENTIAL COUNTING OF LYMPHOCYTE SUBPOPULATIONS	1R01 AM19414-01	53,428
TSO, MARK O.	PATHOLOGY OF RETINAL DYSFUNCTION	7R01 EY01903-01	46,475
TSO, MARK O.	PATHOLOGY AND PATHOGENESIS OF EDEMA OF OPTIC DISC	7R01 EY01904-01	71,544
VAINISI, SAMUEL J.	STUDIES ON OPHTHALMIC DISEASES	5R01 EY00874-05	70,407
VAN ALTEN, PIERSON J.	ONTOGENY OF ADAPTIVE IMMUNITY	1R01 CA20172-01	54,281
WALTER, RODERICH W.	BIOFUNCTIONAL CONFORMATION OF PEPTIDE HORMONES	5R01 AM18399-02	161,497
WEISS, STEPHEN G.	BIOCHEMISTRY OF SPUTUM IN CYSTIC FIBROSIS	1R23 HL18348-01A1	44,400
WEISSMANN, BERNARD	ISOLATION AND STRUCTURE OF ACID MUCOPOLYSACCHARIDES	5R01 AM02479-18	34,907
ZANEVELD, LOURENS J.	HUMAN SPERM ENZYMES, INHIBITORS AND FERTILIZATION	1R01 HD09868-01	72,352
ORGANIZATION TOTAL	68	4,674,207	

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### NORTHERN ILLINOIS UNIVERSITY

ZIP CODE 60115

BRILES, WORTHIE E.	ISOHEMAGGLUTININS FOR AVIAN RNA TUMOR VIRUS RECEPTORS	5R01 CA12796-05	47,432
ERMAN, JAMES E.	THE MECHANISM OF CYTOCHROME C PEROXIDASE CATALYSIS	5R01 GM18648-05	38,695
HAMPEL, ARNOLD E.	AMINOACYL-TRNA SYNTHETASES AND RNAS IN CHO CELLS	2R01 GM19506-04	43,800



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
HAMPEL, ARNOLD E.....	TRANSFER RNA CHANGES INDUCED BY THYROID.....	5R01 HD06816-03	33,524
MITCHELL, JOHN L.....	REGULATION OF ORNITHINE DECARBOXYLASE ACTIVITY.....	5R01 AM17949-02	30,322
PIATAK, DAVID M.....	IDENTIFICATION OF CANCER INHIBITORS FROM ASCLEPIAS.....	5R01 CA12618-02	35,247
ORGANIZATION TOTAL	6 229,020		
<b>EDWARDSVILLE</b>			
<b>SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE ZIP CODE 62025</b>			
BAICH, ANNETTE.....	PROLINE, GLYCINE, AND COLLAGEN FORMATION IN ANIMALS.....	5R01 AM17783-03	50,904
BAIN, RALPH L.....	EQUILIBRIUM STUDIES WITH PLATINUM AMINE COMPLEXES.....	1R01 GM23203-01	13,743
LEVY, MICHAEL R.....	FACTORS INFLUENCING RATES OF ENZYME DEGRADATION.....	1R01 GM23281-01	48,261
MATTA, MICHAEL S.....	POLAR EFFECTS IN MODEL SUBSTRATES OF CHYMOTRYPSIN.....	5R01 GM18652-05	13,606
WHITSON, S WILLIAM.....	HISTOCHEMISTRY OF CADMIUM AND ZINC IODIDE OSMIUM.....	1R23 DE04509-01	11,944
ORGANIZATION TOTAL	5 138,458		
<b>EVANSTON</b>			
<b>AMERICAN ACADEMY OF PEDIATRICS ZIP CODE 60201</b>			
D'ANGIO, GIULIO J.....	NATIONAL WILMS' TUMOR STUDY.....	2R10 CA11722-08	162,165
ORGANIZATION TOTAL	1 162,165		
<b>EVANSTON HOSPITAL ZIP CODE 60201</b>			
GOLDSTICK, THOMAS K.....	ARTERIAL WALL OXYGEN TRANSPORT IN ATHEROSCLEROSIS.....	5R01 HL17517-02	40,154
SPRINGER, GEORG F.....	STRUCTURE AND TUMOR-VIRUS RELATION OF BLOOD GROUP MN.....	5R01 AI05681-14	112,874
SPRINGER, GEORG F.....	STRUCTURE AND TUMOR-VIRUS RELATION OF BLOOD GROUP MN.....	5R01 AI05681-15	121,506
SPRINGER, GEORG F.....	NATURE AND FUNCTION OF SHOCK RECEPTORS OF WHITE CELLS.....	3R01 AI11569-03S1	3,894
SPRINGER, GEORG F.....	NATURE AND FUNCTION OF SHOCK RECEPTORS OF WHITE CELLS.....	5R01 AI11569-04	92,123
SPRINGER, GEORG F.....	HUMAN BREAST CANCER-ASSOCIATED ANTIGENS AND CYTOTOXIN.....	1R01 CA19083-01	54,847
VICK, NICHOLAS A.....	FINE STRUCTURE OF VIRAL INDUCED BRAIN TUMORS.....	5R01 NS12745-02	52,938
ZUCKERMAN, LEON.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05629-09	30,334
ORGANIZATION TOTAL	8 508,670		
<b>NORTHWESTERN UNIVERSITY ZIP CODE 60201</b>			
BASOLO, FRED.....	SYNTHETIC OXYGEN CARRIERS.....	3R01 HL13412-13S1	37,048
BASOLO, FRED.....	SYNTHETIC OXYGEN CARRIERS.....	2R01 HL13412-14	34,645
BASOLO, FRED.....	SYNTHETIC OXYGEN CARRIERS.....	5R01 HL13412-15	76,468
BENDER, MYRON L.....	MECHANISMS OF ENZYME ACTION.....	5R01 GM20853-16	52,385
BLAKE, RANDOLPH.....	PSYCHOPHYSICAL STUDIES OF SPATIAL VISION.....	1R01 EY01596-01	6,722
CAMPBELL, CONSTANCE S.....	REPRODUCTIVE RHYTHMICITY: IMPACT OF THE ENVIRONMENT.....	1R01 HD10050-01	45,582
DALLOS, PETER J.....	STIMULUS-RELATED DC POTENTIALS OF THE COCHLEA.....	5R01 NS06730-10	75,225
DALLOS, PETER J.....	STIMULUS-RELATED DC POTENTIALS OF THE COCHLEA.....	2R01 NS06730-11	87,452
DALLOS, PETER J.....	COCHLEAR DISTORTION AND THE ROLE OF CM IN HEARING.....	5R01 NS08635-07	74,573
DUMAS, LAWRENCE B.....	ROLE OF HOST CELL PROTEINS IN SYNTHESIS OF VIRUS DNA.....	5R01 AI09882-05	49,707
ENROTH-CUGELL, CHRISTINA A.....	RETINAL GANGLION CELL RESPONSES TO TIME VARYING STIMULI.....	5R01 EY00206-15	56,785
ENROTH-CUGELL, CHRISTINA A.....	RETINAL GANGLION CELL RESPONSES TO TIME VARYING STIMULI.....	5R01 EY00206-16	102,821
EPSTEIN, MAX.....	MATERIALS AND COMPONENTS FOR MINIATURE FIBERSCOPES.....	5R01 GM21367-02	70,095
GILBERT, LAWRENCE I.....	BIOCHEMICAL ANALYSIS OF THE ACTION OF HORMONES.....	5R01 AM02818-18	76,279
GOLDBERG, ERWIN.....	REPRODUCTIVE BIOCHEMISTRY OF TESTES SPECIFIC LDH-X.....	5R01 HD05863-05	103,578
HOFFMAN, BRIAN M.....	COBOGLOBINS: COBALT SUBSTITUTED MYO - AND HEMOGLOBINS.....	2R01 HL13531-04A1	58,755
IBERS, JAMES A.....	MOLECULAR OXYGEN CARRIERS-SYNTHESIS, STRUCTURE, BONDING.....	2R01 HL13157-07	86,344
JACOBS, JOHN E.....	HIGH SPEED FAR INFRARED SYSTEM FOR THERMAL IMAGING.....	1R01 GM22471-01	40,393
JACOBS, JOHN E.....	NEW METHODS OF STUDYING BLOOD COAGULATION KINETICS.....	1R01 HL17769-01A2	68,094
KERTESZ, ANDREW E.....	FUNCTIONAL ASPECTS OF PANUM'S FUSIONAL AREAS.....	5R01 EY01055-05	37,016
KING, ROBERT C.....	STUDIES ON THE GENETIC CONTROL OF CYTOKINESIS.....	5R01 GM20036-02	51,615
KLOTZ, IRVING M.....	STABILITY OF HYDROGEN BONDS IN PROTEINS.....	5R01 GM09280-15	75,823
KLOTZ, IRVING M.....	MOLECULAR BIOLOGY OF HEMERYTHRIN AND HEMOCYANIN.....	5R01 HL08299-13	82,013
KLOTZ, IRVING M.....	MOLECULAR BIOLOGY OF HEMERYTHRIN AND HEMOCYANIN.....	2R01 HL08299-14	92,956
LETSINGER, ROBERT L.....	NEW METHODS FOR THE SYNTHESIS OF POLYNUCLEOTIDES.....	5R01 GM10265-14	78,170
LEWIS, JACK L.....	IN VIVO FRACTURE STIFFNESS MEASUREMENT.....	5R01 AM17974-02	37,398



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
LEWIS, JACK L.....	IN VIVO FRACTURE STIFFNESS MEASUREMENT.....	5R01 AM17974-03	16,058
LIPPINCOTT, JAMES A.....	SITE ATTACHMENT IN BACTERIAL INFECTION.....	5R01 AI12149-02	69,084
LIPPINCOTT, JAMES A.....	SITE ATTACHMENT IN BACTERIAL INFECTION.....	5R01 AI12149-03	69,927
LIPPINCOTT, JAMES A.....	TUMOR INITIATION IN VITRO.....	5R01 CA05387-13	51,163
LIPPINCOTT, JAMES A.....	TUMOR INITIATION IN VITRO.....	5R01 CA05387-14	52,129
LOACH, PAUL A.....	STRUCTURE AND FUNCTION OF PHOTOSYNTHETIC MEMBRANES.....	5R01 GM11741-10	47,107
LORAND, LASZLO.....	COAGULATION OF BLOOD.....	5R01 HL02212-21	118,611
LORAND, LASZLO.....	ENZYME ASSAYS IN BLOOD CLOTTING.....	5R01 HL16346-07	75,261
MACDONALD, ROBERT C.....	MEMBRANES AND THE ACTION OF VIRUSES.....	5R01 AI11428-03	41,199
MACDONALD, ROBERT C.....	NORMAL AND NEOPLASTICALLY TRANSFORMED CELL SURFACES.....	1R01 GM23153-01	68,668
MACK, RAYMOND W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07028-11	131,684
MARGOLIASH, EMANUEL.....	ANTIGENICITY OF GLOBULAR PROTEINS.....	5R01 AI12001-02	31,732
MARGOLIASH, EMANUEL.....	ANTIGENICITY OF GLOBULAR PROTEINS.....	5R01 AI12001-03	40,187
MARGOLIASH, EMANUEL.....	MITOCHONDRIAL MEMBRANE METABOLIC ROLE OF CYTOCHROME C.....	5R01 GM19121-05	115,258
MARGOLIASH, EMANUEL.....	AMINO ACID SEQUENCES—AUTOMATIC INTEGRATED PROCEDURES.....	5R01 GM20048-04	348,731
MARGOLIASH, EMANUEL.....	AMINO ACID ANALYZER FOR BIOCHEMICAL RESEARCH.....	5R01 HL11119-15	40,951
MARSHALL, JAMES A.....	SYNTHESIS OF TUMOR INHIBITORY COMPOUNDS.....	5R01 CA11089-14	92,790
MOCKROS, LYLE F.....	ARTIFICIAL LUNGS.....	3R01 HL16582-02S1	1,068
MOCKROS, LYLE F.....	ARTIFICIAL LUNGS.....	2R01 HL16582-03	95,479
NEUHAUS, FRANCIS C.....	BIOSYNTHESIS OF BACTERIAL CELL-WALL COMPONENTS.....	2R01 AI04615-15	111,673
OFFNER, FRANKLIN F.....	MEMBRANE ACTIVITY THEORY.....	2R01 NS08137-07	40,407
RANNEY, DAVID F.....	CHALONE REGULATION OF HUMAN LYMPHOID NEOPLASMS.....	2R01 CA15673-03	51,401
ROSENFELD, JOEL P.....	MORPHINE AND NOCICEPTIVE BRAIN STIMULATION.....	1R01 GM23696-01	28,532
ROUTTENBERG, ARYEH.....	SUBFORNICAL ORGAN CONTROL OF DRINKING BEHAVIOR.....	5R01 NS10768-04	28,963
SCHWARTZ, NEENA B.....	ENVIRONMENTAL AND HORMONAL INTERPLAY OF OVULATION.....	2R01 HD07504-04	107,575
SEKULER, ROBERT W.....	MOVEMENT AND CONTOUR PROCESSES IN HUMAN VISION.....	5R01 EY00321-11	71,548
SHEMIN, DAVID.....	PORPHYRINS: ENZYMIC MECHANISMS AND CONTROL OF SYNTHESIS.....	5R01 AM13091-08	85,114
SHEMIN, DAVID.....	PORPHYRINS: ENZYMIC MECHANISMS AND CONTROL OF SYNTHESIS.....	5R01 AM13091-09	89,575
SRIDHARA, S.....	RNA POLYMERASES DURING CELLULAR DIFFERENTIATION.....	5R01 HD08450-03	28,874
TILLMAN, TOM.....	PSYCHOPHYSICAL CHARACTERISTICS OF HEARING DISORDERS.....	5R01 NS10130-19	84,154
TILLMAN, TOM.....	FACTORS IN BINAURAL EFFICIENCY: UNAIDED AND AIDED.....	5R01 NS11857-02	89,226
TILLMAN, TOM.....	FACTORS IN BINAURAL EFFICIENCY: UNAIDED AND AIDED.....	5R01 NS11857-03	80,847
TUREK, FRED W.....	REPRODUCTION: ROLE OF PHOTOPERIOD AND GONADAL HORMONES.....	1R01 HD09885-01	41,668
WU, TAI T.....	ATTEMPTS TO PREDICT 3-D PROTEIN BACKBONE STRUCTURES.....	5R01 GM21482-02	15,241
ORGANIZATION TOTAL	60 4,119,827		

## GALESBURG

**KNOX COLLEGE ZIP CODE 61401**

GEER, BILLY W.....	GENETIC CONTROL OF TEMPERATURE ACCLIMATION IN INSECTS.....	5R01 GM20393-03	29,682
ORGANIZATION TOTAL	1 29,682		

## HINES

**VETERANS ADMINISTRATION HOSPITAL ZIP CODE 60141**

HELD, IRENE R.....	NEUROTROPIC REGULATION OF MUSCLE PROTEIN SYNTHESIS.....	5R01 NS11755-03	19,205
ORGANIZATION TOTAL	1 19,205		

## MACOMB

**WESTERN ILLINOIS UNIVERSITY ZIP CODE 61435**

MURNIK, MARY R.....	TESTING WIDELY USED HERBICIDES FOR MUTAGENIC ACTIVITY.....	5R01 ES00871-02	17,931
ORGANIZATION TOTAL	1 17,931		

## MAYWOOD

**LOYOLA UNIVERSITY MEDICAL CENTER ZIP CODE 60153**

BALIS, JOHN U.....	ULTRASTRUCTURE OF NORMAL AND ALTERED SURFACTANT.....	2R01 HD04434-06	67,000
BLOOR, BYRON M.....	CEREBRAL HEMODYNAMICS IN SUBARACHNOID HEMORRHAGE.....	2R01 NS11169-02	41,882

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
CASTRO, ANTHONY J.....	NEURAL PLASTICITY IN THE MOTOR SYSTEM.....	7R01 NS13230-01	8,339
CASTRO, ANTHONY J.....	NEURAL PLASTICITY IN THE MOTOR SYSTEM.....	5R01 NS13230-02	20,356
DAVIS, JOSEPH R.....	PHARMACOLOGICAL STUDIES ON THE TESTICULAR CAPSULE.....	1R01 HD09416-01	38,305
DURKIN, MARTIN G.....	BIOLOGIC PROPERTIES OF BASIC GASTRIN.....	5R01 AM16875-03	44,958
FARRAND, STEPHEN K.....	MOLECULAR GENETICS OF AGROBACTERIUM PLASMIDS.....	1R01 CA19402-01	38,787
GUNNAR, ROLF M.....	MYOCARDIAL INFARCTION AND SHOCK.....	3R01 HL15040-03S1	8,322
HOERMAN, KIRK C.....	AGING AND OPTICAL CHANGES IN TISSUES.....	7R01 DE04659-01	27,376
KARCZMAR, ALEXANDER G.....	ACTION OF CHOLINERGIC AND OTHER DRUGS AT SEVERAL SITES.....	2R01 NS06455-11	79,653
NORTH, RICHARD A.....	STUDIES ON SINGLE NEURON ACTIVITY.....	3R01 NS06672-10S1	37,432
O'MORCHOE, CHARLES C.....	THE ORIGIN AND FORMATION OF RENAL LYMPH.....	5R01 AM18473-02	47,891
PEREZ-TAMAYO, RUHERI.....	RADIATION THERAPY ONCOLOGY GROUP.....	1R10 CA19053-01	48,227
RANDALL, WALTER C.....	REGULATION OF THE CARDIOVASCULAR SYSTEM.....	2P01 HL08682-13	571,563
SCHMIDT, ROBERT S.....	ANURAN NEUROETHOLOGY.....	5R01 NS06673-11	35,083
SINHA, SACHCHIDA N.....	DEVELOPMENT OF CARDIAC AUTONOMIC CONTROL AND THE SIDS.....	5R01 HD08465-02	26,590
SPENCER, HERTA.....	INTERACTION OF FLUORIDE WITH MINERALS IN MAN.....	2R01 DE02486-08	58,013
SPENCER, HERTA.....	INTERACTION OF FLUORIDE WITH MINERALS IN MAN.....	5R01 DE02486-09	63,361
STODOLSKY, MARVIN.....	BACTERIAL GENE ACQUISITION BY PROPHAGE P1.....	5R01 GM21435-02	25,290
WELLS, JOSEPH A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05368-15	91,464
ORGANIZATION TOTAL	20	1,379,892	
<b>NORMAL</b>			
<b>ILLINOIS STATE UNIVERSITY ZIP CODE 61761</b>			
RICHARDSON, ARLAN G.....	EFFECT OF AGING ON RAT LIVER MESSENGER RNA.....	1R01 AG00344-01	33,397
WALSH, ROBERT H.....	ANTECEDENT VARIABLES PREDICTIVE OF FERTILITY.....	1R01 HD10687-01	9,076
ORGANIZATION TOTAL	2	42,473	
<b>PEORIA</b>			
<b>UNIVERSITY OF ILLINOIS SYSTEM—PEORIA SCHOOL OF MEDICINE ZIP CODE 61606</b>			
GRUNDBACHER, FRED J.....	GENETICS OF ISOANTIBODY AND IMMUNOGLOBULIN LEVELS.....	5R01 AI12460-03	13,521
ORGANIZATION TOTAL	1	13,521	
<b>SPRINGFIELD</b>			
<b>SOUTHERN ILLINOIS UNIVERSITY SCHOOL OF MEDICINE ZIP CODE 62702</b>			
TEWARI, RAM P.....	IMMUNOGENICITY OF HISTOPLASMA RIBOSOMES AND RNA.....	7R01 AI13400-01	42,625
TEWARI, RAM P.....	IMMUNOGENICITY OF HISTOPLASMA RIBOSOMES AND RNA.....	5R01 AI13400-02	45,964
ORGANIZATION TOTAL	2	88,589	
<b>URBANA</b>			
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN ZIP CODE 61801</b>			
ALGER, NELDA E.....	NOSEMA ALGERAE AS A BIOLOGICAL CONTROL OF MOSQUITOES.....	2R01 AI11123-04	61,710
BARR, LLOYD.....	IONIC CURRENTS OF CARDIAC MUSCLE.....	5R01 HL14125-05	73,761
BEAK, PETER A.....	NEW SYNTHETIC METHODS USEFUL FOR CHEMOTHERAPEUTICS.....	2R01 GM18874-05	58,208
BELL, ROMA RAINES.....	DIETARY FACTORS IN THE ETIOLOGY OF OSTEOPOROSIS.....	5R01 AM17169-03	33,903
BROWN, ANN L.....	MEMORY FOR STORIES, SEQUENCES, AND ORDER IN CHILDREN.....	2R01 HD06864-04	44,886
BROWN, ANN L.....	MEMORY FOR STORIES, SEQUENCES, AND ORDER IN CHILDREN.....	5R01 HD06864-05	45,650
BUETOW, DENNIS E.....	PROTEIN BIOSYNTHESIS IN MITOCHONDRIA.....	2R01 GM19641-03	50,548
BUETOW, DENNIS E.....	RESTRICTION AND NUCLEASE MAPPING OF ORGANELLE DNA.....	1R01 GM22431-01	47,568
CAMPIONE, JOSEPH C.....	STUDY OF COGNITION IN THE RETARDED CHILD.....	5P01 HD05951-05	395,746
CAMPIONE, JOSEPH C.....	STUDY OF COGNITION IN THE RETARDED CHILD.....	5P01 HD05951-06	361,794
CARL, PHILIP L.....	DNA REPLICATION IN E. COLI AND BACTERIOPHAGE T4.....	5R01 GM21536-02	46,353
CHOLDIN, HARVEY M.....	DENSITY AND PATHOLOGY IN URBAN AREAS.....	2R01 HD08031-02	9,120
CLARK, JOHN M., JR.....	THE MECHANISM OF MESSENGER-RNA TRANSLATION.....	5R01 GM08647-15	31,616
COATES, ROBERT M.....	BIOSYNTHESIS AND BIOSYNTHESIS OF TERPENES AND STEROLS.....	5R01 GM13956-11	57,392
COHEN, LESLIE B.....	HABITUATION AND MEMORY IN THE HUMAN INFANT.....	5R01 HD03858-07	50,496
CONRAD, H EDWARD.....	STRUCTURE AND BIOLOGICAL ACTIVITY OF PROTEOGLYCANS.....	5R01 AI09551-07	41,529

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
CONRAD, H. EDWARD.....	VARIABILITY OF CARBOHYDRATE STRUCTURE AND ACTIVITY.....	5R01 HD08057-13	90,003
DE VRIES, ARTHUR L.....	SERUM GLYCOPROTEINS AS CRYOPROTECTIVE AGENTS.....	7R01 GM24016-01	33,444
DEBRUNNER, PETER G.....	RESONANCE SPECTROSCOPY OF ENZYMES.....	5R01 GM16406-08	88,437
DELCONYIN, FRED.....	NEURAL MECHANISMS UNDERLYING BEHAVIOR.....	5R01 NS12142-02	27,348
DICKINSON, DAVID B.....	REPRODUCTIVE PHYSIOLOGY OF RAGWEEDS.....	1R01 AI12879-01	45,367
DIERKS, RICHARD E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05460-14	23,803
DRAKE, JOHN W.....	VIRUS GROWTH AND GENETICS.....	9R01 GM23747-14	77,838
DUCCOFF, HOWARD S.....	SPLIT-DOSE REPAIR-DIVIDING VS. POSTMITOTIC CELLS.....	5R01 CA13779-04	49,508
DUNN, FLOYD.....	ULTRASONIC ABSORPTION BY BIOLOGICAL MATERIALS.....	5R01 GM12281-12	42,150
DUNN, FLOYD.....	ULTRASONIC ABSORPTION BY BIOLOGICAL MATERIALS.....	5R01 GM12281-13	48,758
DZIU, PHILIP J.....	DEVELOPMENT AND PARTURITION OF PORCINE FETUSES.....	5R01 HD07915-03	26,114
EBREY, THOMAS G.....	STUDIES ON THE MECHANISM OF VISUAL EXCITATION.....	5R01 EY01323-04	48,730
EVANS, CHARLES A. JR.....	MASS SPECTROMETRY OF NONVOLATILE ORGANIC COMPOUNDS.....	5R01 GM19749-02	31,018
FRAUENFELDER, HANS.....	HEME PROTEIN REACTIONS.....	5R01 GM18051-05	57,735
GABRIDGE, MICHAEL G.....	MECHANISM OF PATHOGENESIS IN MYCOPLASMA PNEUMONIAE.....	5R01 AI2559-02	28,536
GENNIS, ROBERT B.....	PROTEIN-LIPID INTERACTION.....	5R01 HL16101-03	28,146
GETZ, LOWELL L.....	DISPERSAL AS A POPULATION REGULATORY MECHANISM.....	5R01 HD09328-02	28,378
GLASER, MICHAEL.....	LIPID METABOLISM AND MEMBRANE STRUCTURE AND FUNCTION.....	5R01 GM21953-02	42,188
GREENOUGH, WILLIAM T.....	ENVIRONMENTAL EFFECTS ON RAT BRAIN SYNAPSES.....	3R01 HD08682-03S1	3,814
GUMPORT, RICHARD I.....	FUNCTION AND MECHANISM OF DNA LIGASE.....	5R01 GM19442-05	38,156
GUNSALUS, IRWIN C.....	METABOLIC MECHANISMS.....	2R01 AM00562-23	187,780
GUNSALUS, IRWIN C.....	METABOLIC MECHANISMS.....	5R01 AM00562-24	227,277
GUNSALUS, IRWIN C.....	PROTEIN STRUCTURE MODIFICATION AND OXIDATION.....	5R01 GM21161-02	59,705
HAGER, LOWELL P.....	ENZYMATIC ACTIVATION MECHANISMS.....	5R01 GM07768-16	91,838
HAGER, LOWELL P.....	ENZYMATIC ACTIVATION MECHANISMS.....	5R01 GM07768-17	108,726
HAIGHT, GILBERT P.....	BIOENERGY CYCLES: REDOX-INDUCED P-O-P BOND REACTIONS.....	1R01 GM22887-01	55,061
HARTLINE, PETER H.....	INTEGRATION OF VISUAL AND INFRARED NEURAL IMAGES.....	5R01 EY01539-02	37,305
HARTLINE, PETER H.....	INTEGRATION OF VISUAL AND INFRARED NEURAL IMAGES.....	5R01 EY01539-03	45,336
HASKELL, BETTY E.....	HUMAN AMINO ACID REQUIREMENTS: THEIR ENZYMIC BASIS.....	1R01 AM19303-01	67,350
HASKELL, BETTY E.....	METABOLIC STUDIES ON NEUROLATHYRISM.....	5R01 NS08947-07	55,891
HELMAN, SANDY I.....	ELECTROPHYSIOLOGY OF FROG SKIN AND KIDNEY TUBULES.....	5R01 AM16663-05	35,934
HENDRICKSON, DAVID N.....	METAL SITES IN METALLOPROTEINS.....	5R01 HL13652-06	42,718
JACKSON, GARY L.....	NEUROENDOCRINE CONTROL OF GONADOTROPIN SECRETION.....	5R01 HD06787-03	33,983
JACKSON, GARY L.....	CONTROL OF LUTEINIZING HORMONE BIOSYNTHESIS.....	1R01 HD09659-01A1	56,918
JONAS, ANA.....	STRUCTURE AND FUNCTION OF SERUM LIPOPROTEINS.....	5R01 HL16059-03	27,883
JONAS, ANA.....	STRUCTURE AND FUNCTION OF SERUM LIPOPROTEINS.....	2R01 HL16059-04	37,653
KAPLAN, SAMUEL.....	INDUCTION AND BIOGENESIS OF SUBCELLULAR ORGANELLES.....	5R01 GM15590-10	56,996
KAPLAN, SAMUEL.....	TRNA AND THE DIFFERENTIAL CONTROL OF RNA SYNTHESIS.....	5R01 HD03521-08	44,919
KATZENELLENBOGEN, BENITA S.....	ANTIESTROGENS: REPRODUCTIVE TISSUE AND TUMOR GROWTH.....	1R01 CA18119-01	69,903
KATZENELLENBOGEN, BENITA S.....	EFFECTS OF ESTROGEN ON HUMAN UTERUS TISSUE IN VITRO.....	5R01 HD06726-05	68,835
KATZENELLENBOGEN, JOHN A.....	UTERINE ESTROGEN RECEPTOR: AFFINITY LABELING.....	5R01 AM15556-05	41,718
KATZENELLENBOGEN, JOHN A.....	UTERINE ESTROGEN RECEPTOR: AFFINITY LABELING.....	5R01 AM15556-06	43,739
KATZENELLENBOGEN, JOHN A.....	NEW APPROACHES TO STEREOSPECIFIC ISOPRENOID SYNTHESIS.....	5R01 GM17061-06	40,533
KEMPER, BYRON W.....	BIOSYNTHESIS OF PARATHYROID HORMONE.....	1R01 AM18866-01	42,630
KICLITER, E. EARL, JR.....	RETINAL PROJECTIONS FOR WAVELENGTH DISCRIMINATION.....	1R01 EY01736-01	43,354
KONISKY, JORDAN.....	MODE OF ACTION OF I-COLICINS ON ESCHERICHIA COLI.....	5R01 AI10106-06	36,958
KUMMEROW, FRED A.....	FUNCTION OF ELONGATED T-FATTY ACIDS IN TISSUE LIPIDS.....	5R01 HL14273-05	43,973
KUMMEROW, FRED A.....	FUNCTION OF ELONGATED T-FATTY ACIDS IN TISSUE LIPIDS.....	5R01 HL14273-06	45,345
LARSEN, JOSEPH R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07030-11	184,380
LEONARD, NELSON J.....	NUCLEOSIDES, NUCLEIC ACIDS, AND CELL DIVISION FACTORS.....	5R01 GM20589-18	131,338
LEVINE, NORMAN D.....	MICROMETEOROLOGY AND ECOLOGY OF PARASITIC NEMATODES.....	5R01 AI06197-13	60,188
MALMSTADT, HOWARD V.....	NEW CLINICAL/ANALYTICAL METHODOLOGY.....	5R01 GM21984-02	87,556
MANGEL, WALTER F.....	CONTROL OF GENE EXPRESSION BY THE DNA TUMOR VIRUSES.....	1R01 CA19084-01	64,827
MARTIN, JAMES C.....	SYNTHETIC AND PHYSICAL STUDIES OF ANTICANCER AGENTS.....	5R01 CA13963-04	41,268
MEINS, FREDERICK, JR.....	HERITABLE CHANGES IN PLANT TUMOR DEVELOPMENT.....	1R01 CA20053-01	47,682
MISTRY, SORAB P.....	BIOCHEMICAL STUDIES ON BIOTIN.....	5R01 AM08373-10	39,586
NALBANDOV, ANDREW V.....	ENDOCRINOLOGY OF REPRODUCTION.....	5R01 HD03043-14	67,933
NANNEY, DAVID L.....	GENETIC STUDIES WITH TETRAHYMENA.....	5R01 GM07779-14	75,494
NANNEY, DAVID L.....	GENETIC STUDIES WITH TETRAHYMENA.....	2R01 GM07779-15	96,323
NISHIDA, TOSHIRO.....	ROLE OF PLASMA LIPOPROTEINS IN ATHEROSCLEROSIS.....	5R01 HL17597-02	60,491



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>ILLINOIS—Continued</b>			
NISHIDA, TOSHIRO.....	ROLE OF PLASMA LIPOPROTEINS IN ATHEROSCLEROSIS.....	5R01 HL17597-03	63,603
OLDFIELD, ERIC.....	HIGH-FIELD NMR STUDIES OF RESPIRATORY PROTEINS.....	1R01 HL19481-01	75,017
ORDAL, GEORGE W.....	PHOTOTACTIC AND CHEMOTACTIC BEHAVIOR OF BACTERIA.....	5R01 GM21130-03	31,492
PAUL, IAN C.....	X-RAY STUDIES ON BIOLOGICALLY IMPORTANT MOLECULES.....	2R01 GM19336-05	72,255
PIRKLE, WILLIAM H.....	STUDY OF ENANTIOMERS IN ASYMMETRIC ENVIRONMENTS.....	5R01 GM14518-09	26,257
PROSSER, C LADD.....	INTESTINAL MOTILITY; MYOGENICITY, NEURAL CONTROL.....	5R01 AM12768-08	46,826
REICHMANN, MANFRED E.....	AUTOINTERFERENCE IN VIRUS INFECTIONS AND MALIGNANCY.....	5R01 AI12070-03	40,565
RINEHART, KENNETH L, JR.....	CHEMISTRY AND BIOCHEMISTRY OF CERTAIN ANTIBIOTICS.....	5R01 AI01278-20	79,463
RINEHART, KENNETH L, JR.....	MASS SPECTRA OF ANTIBIOTICS AND RELATED COMPOUNDS.....	5R01 AI04769-15	64,919
RINEHART, KENNETH L, JR.....	HIGH RESOLUTION MASS SPECTRA OF BIOORGANIC COMPOUNDS.....	5R01 CA11388-07	74,134
SARGENT, MALCOLM L.....	BIOCHEMICAL GENETICS OF NEUROSPORA CIRCADIAN RHYTHMS.....	5R01 GM16541-08	28,455
SAVAGE, DWAYNE C.....	INFLUENCES OF NORMAL MICROFLORA ON GUT HISTOLOGY.....	5R01 AI11858-03	33,526
SAVAGE, DWAYNE C.....	INFLUENCES OF NORMAL MICROFLORA ON GUT HISTOLOGY.....	2R01 AI11858-04	55,669
SCHMIDT, PAUL G.....	NMR STUDIES OF ASPARTATE TRANSCARBAMYLASE AND TRNA.....	5R01 GM18038-06	30,300
SEGRE, DIEGO.....	PARAMETERS OF THE IMMUNE RESPONSE IN AGED MICE.....	2R01 AG00451-04	60,906
SEGRE, DIEGO.....	ANTIBODY PLAQUES IN IMMUNOLOGIC INVESTIGATIONS.....	5R01 AI09743-06	39,594
SHAPIRO, DAVID J.....	CHOLESTEROL REGULATION OF HMG-COA REDUCTASE SYNTHESIS.....	5R01 HL17882-02	50,299
SHERWOOD, ORRIN D.....	RELAXIN: STRUCTURAL AND PHYSIOLOGICAL STUDIES.....	5R01 HD08700-02	51,687
STEFFENSEN, DALE M.....	GENE LOCALIZATION IN MAN USING RNA: DNA HYBRIDIZATION.....	5R01 GM21123-03	38,978
STORM, DANIEL R.....	MECHANISM OF ACTION FOR BACITRACIN, POLYMYXIN AND EM49.....	5R01 AI12821-02	37,784
SWITZER, ROBERT L.....	NOVEL CONTROL MECHANISMS IN ENDOSPORE FORMATION.....	2R01 AI11121-04A1	49,162
SWITZER, ROBERT L.....	REGULATION AND MECHANISM OF PRPP SYNTHETASE.....	5R01 AM13488-08	53,918
TEITELBAUM, PHILIP.....	EFFECT OF LEARNING ON LATERAL HYPOTHALAMIC RECOVERY.....	2R01 NS11671-03	99,425
TEITELBAUM, PHILIP.....	EFFECT OF LEARNING ON LATERAL HYPOTHALAMIC RECOVERY.....	5R01 NS11671-04	92,767
TERJUNG, RONALD L.....	CARDIOVASCULAR ADAPTATIONS INDUCED BY EXERCISE.....	5R01 AM17666-03	48,669
TOMPKINS, WAYNE A.....	CELLULAR IMMUNITY TO FIBROMA VIRUS AND FIBROMA INDUCTION.....	5R01 CA12507-05	41,684
TUVESON, ROBERT W.....	VIRUSES AND MATERNAL INHERITANCE IN NEUROSPORA CRASSA.....	5R01 AI11152-03	30,883
UHLENBECK, OLKE C.....	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACID.....	5R01 GM19059-05	60,103
WEBER, GREGORIO.....	PROTEIN CONFIGURATION BY FLUORESCENCE TECHNIQUES.....	5R01 GM11223-14	135,610
WEBER, MICHAEL J.....	EARLY CELL-SURFACE CHANGES IN VIRAL ONCOGENESIS.....	5R01 CA12467-05	69,432
WILLIS, JOHN S.....	ION TRANSPORT IN CELLS OF HIBERNATING MAMMALS.....	5R01 GM11494-13	64,462
WILLIS, JUDITH H.....	ANALYSIS OF DEVELOPMENT IN INSECTS.....	5R01 AG00248-05	55,965
WOESE, CARL R.....	MACROMOLECULAR SYNTHESIS IN PROCARYOTES.....	5R01 AI06457-11	50,359
WOESE, CARL R.....	MACROMOLECULAR SYNTHESIS IN PROCARYOTES.....	5R01 AI06457-12	52,183
WOLFE, RALPH S.....	A NEW MICROBIAL VITAMIN-COENZYME RELATIONSHIP.....	5R01 AI12277-02	38,887
WOLFE, RALPH S.....	A NEW MICROBIAL VITAMIN-COENZYME RELATIONSHIP.....	5R01 AI12277-03	40,373
WONG, PAUL K.....	GENETIC STUDIES OF MURINE LEUKEMIA VIRUSES.....	3R01 CA17695-01S1	4,500
WONG, PAUL K.....	GENETIC STUDIES OF MURINE LEUKEMIA VIRUSES.....	5R01 CA17695-02	34,850
WONG, PAUL K.....	GENETICS OF HELPER-INDEPENDENT MOUSE SARCOMA VIRUS.....	1R01 CA19723-01	58,892
YANKWICH, PETER E.....	MODELING THE TRANSITION STATE OF ENZYMIC REACTIONS.....	5R01 GM18362-03	33,268
ZEHR, JOHN E.....	CENTRAL NERVOUS CONTROL OF RENIN AND BLOOD PRESSURE.....	3R01 HL15307-03S1	7,733
ZEHR, JOHN E.....	CENTRAL NERVOUS CONTROL OF RENIN AND BLOOD PRESSURE.....	2R01 HL15307-04	64,980
ORGANIZATION TOTAL	118 7,166,912		
STATE TOTAL	722 59,242,806		

## INDIANA

### BLOOMINGTON

INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT BLOOMINGTON ZIP CODE 47401

ALLERHAND, ADAM.....	CARBON-13 NMR STUDIES OF SPECIFIC SITES IN PROTEINS.....	1R01 GM22620-01	54,971
BLUMENTHAL, THOMAS.....	QBETA REPLICASE AND PROTEIN SYNTHESIS T-FACTOR.....	5R01 GM21024-03	31,315
BOSIN, TALMAGE R.....	STUDIES ON PULMONARY SEROTONIN.....	1R23 HL19573-01	41,578
BRIGGS, ROBERT W.....	GENE ACTION IN OÖGENESIS AND EMBRYONIC DEVELOPMENT.....	2R01 GM05850-18	60,574
CAMPAIGNE, ERNEST E.....	BIOISOSTERES OF BIOLOGICALLY ACTIVE INDOLES.....	5R01 GM10366-13	48,781
CAMPAIGNE, ERNEST E.....	BIOISOSTERES OF BIOLOGICALLY ACTIVE INDOLES.....	5R01 GM10366-14	67,640
CORDES, EUGENE H.....	REACTION KINETICS AT AMPHIPATHIC SURFACES.....	3R01 GM19631-12S1	5,000



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>INDIANA—Continued</b>			
CORDES, EUGENE H.	REACTION KINETICS AT AMPHIPATHIC SURFACES	5R01 GM19631-13	45,062
CRAIG, JAMES C.	CUTANEOUS CODING AND PATTERN PERCEPTION	5R01 NS09783-06	32,096
ELIZONDO, REYNALDO S.	MECHANISMS OF HEAT ACCLIMATION IN MACACA MULATTA	5R01 AM16703-02	39,625
GURD, FRANK R.	STRUCTURE AND REACTIVITY OF PROTEINS AND LIPOPROTEINS	3R01 HL05556-15S1	70,200
GURD, FRANK R.	STRUCTURE AND REACTIVITY OF PROTEINS AND LIPOPROTEINS	2R01 HL05556-16A1	36,893
GURD, FRANK R.	STRUCTURE AND REACTIVITY OF PROTEINS AND LIPOPROTEINS	5R01 HL05556-17	112,850
GURD, FRANK R.	SPECIFIC ENRICHMENT OF MYOGLOBINS FOR CARBON-13 NMR	5R01 HL14680-05	65,781
HAUROWITZ, FELIX	ALLOTYPE AND DIVERSITY OF HAPTEN-SPECIFIC ANTIBODIES	2R01 AI09752-27	16,143
HAYES, JOHN M.	STABLE ISOTOPE RATIO MEASUREMENT	5R01 GM18979-05	64,105
HIEFTJE, GARY M.	CYBERNATION PROCEDURES IN INSTRUMENTAL ANALYSIS	2R01 GM17904-04A1	39,361
HIRS, CHRISTOPHE H.	STRUCTURE AND FUNCTION OF PANCREATIC ENZYMES	5R01 AM14307-07	107,912
MAHLER, HENRY R.	THE BIOSYNTHESIS OF RESPIRATORY ENZYMES	5R01 GM12228-13	97,866
MAHLER, HENRY R.	DYNAMICS OF NEURONAL MEMBRANE PROTEINS	5R01 NS08309-06	68,736
MAHOWALD, ANTHONY P.	ULTRASTRUCTURAL STUDIES OF EMBRYONIC DETERMINATION	5R01 HD07983-03	39,272
MALACINSKI, GEORGE M.	DEVELOPMENTAL GENETICS OF EARLY EMBRYO - CONFERENCE	1R13 HD10905-01	5,613
MC CLUNG, LELAND S.	SUBJECT BIBLIOGRAPHY ON ANAEROBIC BACTERIA, 1970-1975	1R01 LM02604-01	24,984
MC CLUNG, LELAND S.	SUBJECT BIBLIOGRAPHY ON ANAEROBIC BACTERIA, 1970-1975	5R01 LM02604-02	24,116
MC QUARRIE, DONALD A.	FORCE BALANCE IN POLYELECTROLYTE SYSTEMS	5R01 GM20800-03	31,225
MERRITT, LYNN L, JR.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07031-11	122,352
MURRAY, RAYMOND G.	FINE STRUCTURE OF TASTE BUDS AND RELATED RECEPTORS	5R01 NS07472-06	50,242
PISONI, DAVID B.	AUDITORY AND PHONETIC PROCESSES IN SPEECH PERCEPTION	5R01 NS12179-02	58,096
POTTER, H DAVID	DYNAMIC ASPECTS OF NEUROFILAMENTS AND MICROTUBULES	5R01 NS08964-07	58,130
PREER, JOHN R, JR.	GENETICS AND GENERAL BIOLOGY OF PARAMECUM	2R01 GM20038-03	52,105
PUTNAM, FRANK W.	BLOOD PLASMA PROTEINS: STRUCTURE AND FUNCTION	1R01 AM19221-01	89,245
PUTNAM, FRANK W.	ABNORMAL PROTEINS IN MULTIPLE MYELOMA	5R01 CA08497-11	186,997
PUTNAM, FRANK W.	ABNORMAL PROTEINS IN MULTIPLE MYELOMA	5R01 CA08497-12	163,153
RAFF, RUDOLF A.	REGULATION OF PROTEIN SYNTHESIS IN EARLY DEVELOPMENT	2R01 HD06902-04	68,109
RAFF, RUDOLF A.	REGULATION OF PROTEIN SYNTHESIS IN EARLY DEVELOPMENT	5R01 HD06902-05	58,945
RICHARDSON, JOHN P.	FACTORS THAT CONTROL RNA TRANSCRIPTION	5R01 AI10142-06	36,402
RICHMOND, ROLLIN C.	ADAPTIVE SIGNIFICANCE OF ALLOZYME VARIATION	7R01 GM23706-01	39,399
SCANZONI, JOHN H.	FOLLOW-UP STUDY OF SEX ROLE NORMS AND FERTILITY CONTROL	5R01 HD09268-02	9,540
SCHWARTZ, ILSA R.	DYNAMIC ASPECTS OF AUDITORY SYNAPTIC TERMINALS	5R01 NS09996-03	32,210
SINCLAIR, JOHN H.	COMPOSITION AND REGULATION OF THE RIBOSOMAL GENOME	5R01 GM20532-03	22,105
SONNEBORN, TRACY M.	NORMAL AND ABNORMAL CELL GROWTH AND HEREDITY	5R01 GM15410-09	113,681
STARR, RICHARD C.	CONTROL OF CELLULAR DIFFERENTIATION	5R01 GM21029-03	23,096
STRICKHOLM, ALFRED	MEMBRANE STRUCTURE AND FUNCTION IN MUSCLE AND NERVE	5R01 GM14907-09	23,172
SURZYCKI, STEFAN J.	ADENOVIRUS GENE EXPRESSION IN VITRO AND IN VIVO	7R01 AI13382-01	41,085
SURZYCKI, STEFAN J.	TRANSCRIPTION OF CHLOROPLAST DNA OF C. REINHARDI	7R01 GM22968-01	58,124
TAYLOR, MILTON W.	MUTANTS OF MAMMALIAN CELL LINES	5R01 GM18924-05	56,661
ORGANIZATION TOTAL	46	2,594,548	

## GOSHEN

GOSHEN COLLEGE      ZIP CODE 46526

JACOBS, MERLE E.	EFFECTS OF BETA-ALANINE AND DOPAMINE ON BEHAVIOR	5R01 GM18680-05	26,483
JACOBS, MERLE E.	EFFECTS OF BETA-ALANINE AND DOPAMINE ON BEHAVIOR	5R01 GM18680-06	28,738
ORGANIZATION TOTAL	2	55,221	

## INDIANAPOLIS

INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS      ZIP CODE 46202

ARMSTRONG, WILLIAM M.	ION TRANSPORT IN SMALL INTESTINE	5R01 AM12715-08	47,843
ASHMORE, JAMES	STUDIES ON EXPERIMENTAL DIABETES	5R01 AM14340-07	62,540
BAEHNER, ROBERT L.	LEUKOCYTE METABOLISM RELATED TO RECURRENT INFECTION	2R01 AI10892-04	66,435
BAEHNER, ROBERT L.	COOPERATIVE STUDY OF CHILDREN'S CANCER	5R10 CA13809-04	83,586
BAEHNER, ROBERT L.	BIOCHEMICAL BASIS OF OXYGEN DAMAGE TO LUNG CELLS	1R01 HL19779-01	75,167
BAILEY, JOHN C.	THE ROLE OF ELECTROTONUS IN HIS-PURKINJE FUNCTION	1R01 HL18538-01	22,395
BAILEY, JOHN C.	THE ROLE OF ELECTROTONUS IN HIS-PURKINJE FUNCTION	5R01 HL18538-02	26,618
BEERING, STEVEN C.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05371-15	186,728

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>INDIANA—Continued</b>			
BOCKRATH, RICHARD C.	RADIATION INDUCED CELLULAR MUTAGENESIS AND DNA REPAIR	5R01 GM21788-02	17,195
BOXER, LAURENCE A.	THE MECHANICS OF MOVEMENT IN THE LEUKOCYTE	1R01 AI13586-01	66,630
BRANDT, KENNETH D.	PROTEOGLYCANS IN AGING AND OSTEOARTHRITIC CARTILAGE	7R01 AM19456-01	12,775
BRANDT, KENNETH D.	PROTEOGLYCANS IN AGING AND OSTEOARTHRITIC CARTILAGE	5R01 AM19456-02	60,730
CAMPBELL, ROBERT L.	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE	5R01 NS12498-02	17,585
CHRISTIAN, JOE C.	INDIANA MEDICAL SCHOOL HUMAN GENETICS CENTER	5P50 GM21054-02	521,133
DAVIS, ELDRED J.	REGULATORY MECHANISMS IN ENERGY METABOLISM	5R01 AM13939-06	40,712
FISCH, CHARLES	MECHANISMS AND THERAPY OF CIRCULATORY DISEASE	5P01 HL06308-16	419,596
FRIEDMAN, JULIUS J.	THE DYNAMICS OF MICROCIRCULATORY FUNCTION	5R01 HL16094-03	23,222
FRIEDMAN, JULIUS J.	THE DYNAMICS OF MICROCIRCULATORY FUNCTION	2R01 HL16094-04	26,537
GIBSON, DAVID M.	INSULIN INDUCTION OF LIPOGENIC ENZYMES IN HEPATOCYTES	1R01 AM19299-01	63,377
GREENSPAN, KALMAN	CARDIAC DYSRHYTHMIAS: INDUCTION AND THERAPY	5R01 HL16747-02	28,665
GREENSPAN, KALMAN	CARDIAC DYSRHYTHMIAS: INDUCTION AND THERAPY	5R01 HL16747-03	29,978
GRIM, CLARENCE E.	HYPERTENSION: PSYCHOPHYSIOLOGIC & GENETIC PRECURSORS	1R01 HL20034-01	113,066
HARPER, EDWIN T.	ION-AFFINITY ELECTROPHORESIS OF HEMOGLOBIN VARIANTS	5R01 AM18057-02	25,664
HARRIS, ROBERT A.	REGULATION OF LEUCINE OXIDATION	1R01 AM19259-01	37,202
IATRIDIS, PANAYOTIS G.	THE ROLE OF HAGEMAN FACTOR IN FIBRINOLYSIS	5R01 HL15425-03	41,736
INGRAHAM, JOSEPH S.	FORMATION OF ANTIBODIES BY INDIVIDUAL CELLS	5R01 AI06057-12	29,907
INGRAHAM, JOSEPH S.	FORMATION OF ANTIBODIES BY INDIVIDUAL CELLS	5R01 AI06057-13	37,073
JACKSON, ROBERT C.	EXPERIMENTAL CHEMOTHERAPY OF HEPATOMAS BY ANTIFOLATES	1R01 CA18129-01	59,612
JOHNSTON, CYRUS C, JR.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00750-04	370,560
LI, TING-KAI	METABOLIC CONTROL MECHANISMS IN AGING OF SPERMATOZOEA	5R01 HD07231-03	48,660
LINDSETH, RICHARD E.	A DYNAMIC ORTHOTIC DEVICE TO ASSIST PELVIC EXTENSION	1R01 AM18701-01	45,969
LLOYD, THOMAS C, JR.	PULMONARY VASCULAR AND LEFT ATRIAL BAROREFLEXES	5R01 HL15694-03	41,168
LLOYD, THOMAS C, JR.	PULMONARY FACTORS IN CIRCULATORY REGULATION	2R01 HL15694-04	38,748
MEALEY, JOHN, JR.	CHEMOTHERAPY OF INTRACRANIAL NEOPLASMS	5R01 CA06145-15	52,839
MERRITT, A DONALD	GENETIC AND BIOCHEMICAL STUDIES OF HUMAN AMYLASE	5R01 HL19178-05	58,120
MERRITT, DORIS H.	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	5P60 HL15166-05	485,067
OCHS, SIDNEY	ANALYSIS OF AXOPLASMIC TRANSPORT	5R01 NS08706-07	80,404
OCHS, SIDNEY	ANALYSIS OF AXOPLASMIC TRANSPORT	5R01 NS08706-08	86,382
PHILLIPS, RALPH W.	INFLUENCE OF FLUORIDE ON WETTABILITY AND RESTORATIVES	5R01 DE00433-20	79,912
PHILLIPS, RALPH W.	CREEP AND EVALUATION TECHNIQS OF AMALGAM FAILURE	1R01 DE04367-01	57,111
RHOADES, RODNEY A.	NUTRITION & HORMONAL INTERACTION IN LUNG DEVELOPMENT	1R01 HD10670-01	56,899
ROESKE, ROGER W.	DESIGN & DEVELOPMENT OF CHELATORS FOR LEAD & MERCURY	5R01 ES00942-02	50,278
ROMAN, ANN	INTRACELLULAR CONTROL OF DNA TUMOR VIRUS REPLICATION	1R01 CA19708-01	52,888
ROTHE, CARL F.	CONTROL OF CENTRAL VENOUS PRESSURE IN SHOCK	5R01 HL07723-13	26,974
SAWYER, WILLIAM D.	PATHOBIOLOGY OF GONOCOCCAL INFECTION	5R01 AI12087-03	63,597
SCHLOEMER, ROBERT H.	ARBOVIRUS REPLICATION IN MOSQUITO CELL CULTURES	5R22 AI12078-02	29,942
SCHLOEMER, ROBERT H.	ARBOVIRUS REPLICATION IN MOSQUITO CELL CULTURES	5R22 AI12078-03	26,510
SCHLOEMER, ROBERT H.	GLYCOPROTEINS OF RHABDO AND ONCOGENIC VIRUSES	1R01 CA19292-01	60,332
SHAFFER, WILLIAM G.	CLINICAL CANCER-DENTAL	1R25 CA19194-01	39,976
SNODGRASS, PHILIP J.	INDUCTION AND SUPPRESSION OF UREA CYCLE ENZYMES	5R01 AM17299-04	32,684
TANNER, GEORGE A.	SINGLE NEPHRON RESPONSE TO CHRONIC OBSTRUCTION	2R01 HL13929-05	26,037
THOMPSON, RICHARD M.	DETERMINATION OF GLUCURONIDES BY GAS PHASE ANALYSIS	5R01 AM17665-02	48,691
VON SCHUCHING, SUSANNE L.	A 123-IODINE RADIOPHARMACEUTICAL FOR ADRENAL IMAGING	1R01 GM23692-01	22,759
WATANABE, AUGUST M.	ISCHEMIC ARRHYTHMIAS: EFFECT OF AUTONOMIC TONE	5R01 HL18795-02	67,200
WATSON, RONALD R.	MALNUTRITION AND SECRETORY IMMUNOGLOBULIN A	5R22 HD09098-03	22,139
WEBER, GEORGE	METABOLIC PATTERNS IN NORMAL AND NEOPLASTIC TISSUES	5R01 CA05034-16	126,439
WEBER, GEORGE	CORRELATED STUDY OF METABOLIC REGULATION IN NEOPLASIA	5P01 CA13526-05	393,120
WEINBERGER, MYRON H.	SPECIALIZED CENTER OF RESEARCH IN HYPERTENSION	2P50 HL14159-06	763,176
YOUNG, PETER C.	PROGESTERONE RECEPTORS IN HUMAN ENDOMETRIAL CANCER	3R01 CA17235-01S1	2,808
YOUNG, PETER C.	PROGESTERONE RECEPTORS IN HUMAN ENDOMETRIAL CANCER	5R01 CA17235-02	24,156
ZEMAN, WOLFGANG	STUDY OF DIFFUSE DEGENERATIVE CNS DISEASES	5R01 NS04607-12	60,342
ORGANIZATION TOTAL	61	5,685,594	
<b>INDIANAPOLIS CENTER FOR ADVANCED RESEARCH ZIP CODE 46202</b>			
EGGLETON, REGINALD C.	BIOMEDICAL RESEARCH SUPPORT GRANT	1S07 RR05781-01	20,669
ORGANIZATION TOTAL	1	20,669	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>INDIANA—Continued</b>			
<b>MUNCIE</b>			
JALL STATE UNIVERSITY	ZIP CODE 47306		
COSTILL, DAVID L.	HYPERLIPIDEMIA IN DIABETICS DURING MUSCULAR TRAINING	1R01 HL20408-01	42,888
ORGANIZATION TOTAL	1	42,888	
<b>NOTRE DAME</b>			
UNIVERSITY OF NOTRE DAME	ZIP CODE 46556		
BASU, SUBHASH C.	GLYCOLIPID METABOLISM IN TUMOR AND TRANSFORMED CELLS	5R01 CA14764-02	44,245
BASU, SUBHASH C.	METABOLISM OF GLYCOPHINGOLIPIDS	5R01 NS09541-06	28,680
CASTELLINO, FRANCIS J.	STRUCTURE-FUNCTION STUDIES ON PLASMINOGEN AND PLASMIN	5R01 HL13423-06	50,299
CRAIG, GEORGE B, JR.	GENETICS AND REPRODUCTIVE BIOLOGY OF AEDES MOSQUITOES	5R01 AI02753-17	116,662
CRAIG, GEORGE B, JR.	GENETICS AND REPRODUCTIVE BIOLOGY OF AEDES MOSQUITOES	5R01 AI02753-18	124,704
FUCHS, MORTON S.	REPRODUCTIVE PHYSIOLOGY OF AEDES MOSQUITOES	5R01 AI10707-05	61,935
GORDON, ROBERT E.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07033-11	61,587
HAYES, ROBERT G.	X-RAY PHOTOELECTRON SPECTROSCOPY OF HEME COMPOUNDS	5R01 HL13651-05	52,728
MARTINEZ-CARRION, MARINO	PROBES OF MOLECULAR FUNCTION IN PYRIDOXAL ENZYMES	5R01 GM20727-03	36,094
MARTINEZ-CARRION, MARINO	ISOZYMES OF HEART GLUTAMATE ASPARTATE TRANSAMINASE	2R01 HL11448-09	53,518
MARTINEZ-CARRION, MARINO	ISOZYMES OF HEART GLUTAMATE ASPARTATE TRANSAMINASE	5R01 HL11448-10	55,440
NOWAK, THOMAS	NMR STUDIES OF METALS IN KINASES AND RELATED ENZYMES	5R01 AM17049-03	28,811
NOWAK, THOMAS	NMR STUDIES OF METALS IN KINASES AND RELATED ENZYMES	2R01 AM17049-04	59,817
POLLARD, MORRIS	DEVELOPMENT AND MAINTENANCE OF GERM-FREE BUFFALO RATS	3R26 CA15957-02S1	5,788
POLLARD, MORRIS	COLORECTAL CARCINOGENESIS IN GERM-FREE RATS	2R26 CA15957-03	63,120
POLLARD, MORRIS	INVESTIGATIONS ON PROSTATE ADENOCARCINOMAS IN RATS	5R26 CA17559-02	56,684
POLLARD, MORRIS	DEVELOPMENT AND MAINTENANCE OF GERM-FREE ANIMAL COLONIES	5P40 RR00294-11	104,647
SAZ, HOWARD J.	INTERMEDIARY METABOLISM OF HELMINTHS	5R01 AI09483-07	99,291
SAZ, HOWARD J.	CHEMOTHERAPY AND METABOLISM OF FILARIDS	5R22 AI10512-05	29,806
SAZ, HOWARD J.	CHEMOTHERAPY AND METABOLISM OF FILARIDS	5R22 AI10512-06	25,095
SCHEIDT, W. ROBERT	X-RAY AND CHEMICAL STUDIES OF METALLOPORPHYRINS	2R01 HL15627-04	53,474
WEINSTEIN, PAUL P.	DEVELOPMENT OF PARASITIC HELMINTHS IN VITRO	5R01 AG09625-07	80,554
WOSTMANN, BERNARD S.	ROLE OF ENTERIC ANTIGEN IN AGE-RELATED IMMUNE CHANGES	1R01 AG00022-01A1	84,005
WOSTMANN, BERNARD S.	ANTIBIOTICS: EFFECTS ON BILE ACIDS AND CHOLESTEROL	5R01 AI12593-02	47,722
WOSTMANN, BERNARD S.	MICROBIAL EFFECTS IN CHOLESTEROL METABOLISM	3R01 HL08351-09S1	6,227
WOSTMANN, BERNARD S.	CHARACTERIZATION OF NUTRITIONALLY DEFINED GNOTOBIOTE	2P40 RR00640-04	89,405
ORGANIZATION TOTAL	26	1,520,338	
<b>WEST LAFAYETTE</b>			
PURDUE UNIVERSITY	ZIP CODE 47907		
ANDREWS, FREDERICK N.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07032-11	157,071
ARNOTT, STRUTHER	MOLECULAR GEOMETRIES OF NUCLEIC ACIDS	5R01 GM17371-05	68,398
ARNOTT, STRUTHER	MOLECULAR GEOMETRIES OF MUCOPOLYSACCHARIDES	5R01 GM20682-03	41,157
ARONSON, ARTHUR I.	MORPHOGENESIS OF BACTERIAL SPORES	5R01 GM20606-03	45,312
ARONSON, ARTHUR I.	MECHANISM AND FUNCTION OF NUCLEAR RNA TURNOVER	1R01 GM23226-01	54,522
AUNON, JORGE I.	QUANTIFICATION OF SINGLE EVOKED RESPONSES	5R01 NS12298-02	37,662
AXELROD, BERNARD	ROLE OF LYSOSOMAL L-TARTRATE-INHIBITABLE PHOSPHATASE	5R01 GM21368-03	24,187
AXELROD, BERNARD	MECHANISM OF ACTION OF GLYCOSIDASES	5R01 GM22189-02	46,568
BARILE, RONALD G.	AUTOMATED DRUG DELIVERY	1R01 GM22861-01	34,347
BRANDT, KARL G.	ELECTRON TRANSPORT IN PYRUVATE DEHYDROGENASE COMPLEX	5R01 GM19458-05	34,017
BROWN, HERBERT C.	STEREOSPECIFIC SYNTHESSES VIA HYDROBORATION	3R01 GM10937-13S1	4,321
BROWN, HERBERT C.	STEREOSPECIFIC SYNTHESSES VIA HYDROBORATION	2R01 GM10937-14	99,605
BUTLER, LARRY G.	RELATIONSHIPS OF TWO INTESTINAL PHOSPHOHYDROLASES	1R01 GM23028-01	57,078
BYRN, STEPHEN R.	STRUCTURAL STUDIES OF PHYSIOLOGICALLY ACTIVE AGENTS	5R01 ES00929-03	39,943
BYRN, STEPHEN R.	SOLID STATE REACTIONS IN MEDICINAL CHEMISTRY	5R01 GM21174-02	35,273
CAPALDI, EGIDIO J.	SEQUENTIAL PROCESSES IN INSTRUMENTAL LEARNING	5R01 HD04379-08	51,459
CARLSON, DON M.	CHEMISTRY AND BIOSYNTHESIS OF GLYCOPROTEINS	7R01 AM19175-01	14,270
CARLSON, DON M.	CHEMISTRY AND BIOSYNTHESIS OF GLYCOPROTEINS	5R01 AM19175-02	110,800
CASSADY, JOHN M.	CHEMICAL-ANTITUMOR ACTIVITY OF LACTONES AND EPOXIDES	2R01 CA11715-04A1	51,655



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>INDIANA—Continued</b>			
CASSADY, JOHN M.	CHEMICAL-ANTITUMOR ACTIVITY OF LACTONES AND EPOXIDES	5R01 CA11715-05	57,219
CASSADY, JOHN M.	CONFERENCE ON NATURALLY OCCURRING ANTITUMOR AGENTS	1R13 CA20248-01	2,854
CLARK, HELEN E.	UTILIZATION OF ESSENTIAL AMINO ACIDS BY MAN	5R01 AM08533-12	41,443
CLEGG, ERIC D.	SUBCELLULAR INVESTIGATION OF PIG SPERM CAPACITATION	2R01 HD07013-04	89,877
COPPOC, GORDON L.	ORNITHINE DECARBOXYLASE REGULATION IN TUMORS	5R01 CA15873-02	29,097
CRAMER, WILLIAM A.	THE MECHANISM OF ACTION OF COLICIN	5R01 GM18457-05	55,073
CRAMER, WILLIAM A.	THE MECHANISM OF ACTION OF COLICIN	5R01 GM18457-06	52,985
CUSHMAN, MARK S.	NEW BENZOPHENANTHRIDINE AND PROTOBERBERINE SYNTHESIS	1R01 CA19204-01	41,827
DAS, GOPAL D.	EXPERIMENTAL BRAIN TUMORS: DEVELOPMENTAL STUDIES	5R01 CA14650-03	36,231
DAS, GOPAL D.	NEUROGENESIS: NORMATIVE AND EXPERIMENTAL STUDIES	5R01 NS08817-06	54,719
DE WITT, DAVID P.	OPTICAL DETECTION OF NEONATAL JAUNDICE	1R01 AM18871-01	55,774
DILLEY, RICHARD A.	CHEMICAL MODIFICATION OF ENERGY 'TRANSDUCING' MEMBRANES	5R01 GM19595-04	39,356
DILLEY, RICHARD A.	CHEMICAL MODIFICATION OF ENERGY 'TRANSDUCING' MEMBRANES	5R01 GM19595-05	47,204
DIXON, JACK E.	THE MECHANISM OF INSULIN DEGRADATION	1R01 AM18024-01A1	36,956
DIXON, JACK E.	THYROTROPIN RELEASING HORMONE: SYNTHESIS, DEGRADATION	1R01 AM18849-01	43,898
FETH, LAWRENCE L.	FREQUENCY DISCRIMINATION AND PITCH OF COMPLEX TONES	5R01 NS12235-02	23,896
FETH, LAWRENCE L.	THE ACOUSTICS OF HEARING AIDS	5R01 NS12526-02	16,757
FLOSS, HEINZ G.	STUDY OF BIOLOGICALLY ACTIVE MICROBIAL METABOLITES	5R01 AI11728-03	97,594
FLOSS, HEINZ G.	EXPLORATORY STUDIES IN CANCER RESEARCH	5P20 CA16971-02	28,563
FLOSS, HEINZ G.	BIO SYNTHESIS OF ERGOT ALKALOIDS	5R01 CA17482-08	62,970
FLOSS, HEINZ G.	STEREOCHEMISTRY OF ENZYME REACTIONS	5R01 GM18852-05	45,682
FLOSS, HEINZ G.	STEREOCHEMISTRY OF ENZYME REACTIONS	5R01 GM18852-06	45,920
FUCHS, PHILIP L.	TOTAL SYNTHESIS OF ALKALOIDAL ANTILEUKEMIA AGENTS	1R01 CA19689-01	60,831
GEDDES, LESLIE A.	PREDICTIVE VENTRICULAR DEFIBRILLATION	5R01 HL17855-02	45,288
GEDDES, LESLIE A.	PREDICTIVE VENTRICULAR DEFIBRILLATION	5R01 HL17855-03	47,592
GEDDES, LESLIE A.	INDIRECT MEAN ARTERIAL PRESSURE	1R01 HL18947-01	93,955
GILHAM, PETER T.	STUDIES ON THE FINE STRUCTURE OF NUCLEIC ACIDS	5R01 GM11518-12	49,217
GILHAM, PETER T.	METHODS FOR THE SEQUENCE ANALYSIS OF DNA	5R01 GM18533-05	48,945
GILHAM, PETER T.	SYNTHESIS OF POLYRIBONUCLEOTIDES OF DEFINED SEQUENCE	5R01 GM19395-05	69,328
GOLUB, EDWARD S.	THE INDUCTION OF IMMUNOLOGICAL TOLERANCE	2R01 AI08800-07	77,426
GOLUB, EDWARD S.	BRAIN ASSOCIATED HEMATOPOIETIC ANTIGENS	5R01 CA18641-02	51,533
GRAHAM, DALE E.	THE EUKARYOTE GENOME: EVOLVING STRUCTURE AND FUNCTION	5R01 GM21954-02	67,241
GREGER, JANET L.	EFFECT OF ZINC NUTRITION ON TASTE ACUITY IN THE AGED	1R01 AG00176-01	12,654
HARTL, DANIEL L.	EVOLUTION OF NEW BETA-GALACTOSIDASES IN E. COLI	5R01 GM21623-02	36,673
HARTL, DANIEL L.	GENETIC AND POPULATION STUDIES OF SPERM DYSFUNCTION	5R01 GM21732-03	15,330
HEINSTEIN, PETER.	BIO SYNTHESIS OF GOSSYPOL	1R01 GM23249-01	61,037
HERRMANN, KLAUS M.	BIOCHEMICAL AND GENETIC STUDIES OF DAHP-SYNTHEASE	5R01 GM17678-05	31,795
HOLTON, ROBERT A.	SYNTHESIS OF ALKALOIDS AND MACROCYCLES	5R01 GM21992-02	25,882
HORNEMANN, ULFERT	BIO SYNTHESIS OF THE MITOMYCIN ANTIBIOTICS	2R01 CA14378-07	84,128
HORNEMANN, ULFERT	BIO SYNTHESIS OF ANTIBIOTICS CONTAINING N-N BONDS	1R01 CA18587-01	57,210
JAFFE, LIONEL F.	ENDONEUROUS ELECTRICAL CONTROLS OF NEURITE GROWTH	5R01 NS11545-03	73,537
KAK, A. C.	DECONVOLUTION OF THE MEDICAL ULTRASOUND DATA	1R01 GM23116-01	57,229
KIM, KI-HAN.	MODE OF INSULIN ACTION AND ENZYME MODIFICATION	5R01 AM12865-08	39,517
KIM, KI-HAN.	NUCLEAR ACCEPTOR SITE FOR THE ESTROGEN-RECEPTOR	5R01 AM18464-02	38,753
KISSINGER, PETER T.	ANALYSIS OF TYROSINE METABOLITES IN BODY FLUIDS	7R01 GM22713-01	39,587
KISSINGER, PETER T.	ANALYSIS OF TYROSINE METABOLITES IN BODY FLUIDS	5R01 GM22713-02	44,015
KOHLHAW, GUNTER B.	REGULATION OF LEUCINE BIOSYNTHESIS	5R01 GM15102-09	57,811
KRAMER, PAUL A.	TISSUE-SPECIFIC DELIVERY OF ANTICANCER AGENTS	5R01 CA17866-02	38,187
LASKOWSKI, MICHAEL, JR.	CHEMISTRY OF LOCAL ENVIRONMENTS IN PROTEIN	5R01 GM10831-17	160,848
LASKOWSKI, MICHAEL, JR.	CHEMISTRY OF LOCAL ENVIRONMENTS IN PROTEIN	5R01 GM10831-18	184,028
LEVINTHAL, MARK	ORIGIN AND REPLICATION OF PI-HISTIDINE FACTOR	5R01 GM19413-03	34,741
LIGHT, ALBERT	INTESTINAL BOVINE ENTEROKINASE	5R01 GM22261-02	41,304
MALVEN, PAUL V.	HYPOTHALAMIC CONTROL OF PRL, GH AND LH RELEASE	1R01 HD09591-01	52,309
MARGERUM, DALE W.	METAL ION TRANSFER AND CATALYSIS IN PEPTIDE COMPLEXES	5R01 GM12152-12	60,905
MARGERUM, DALE W.	ACTIVATION OF MOLECULAR OXYGEN BY METAL PEPTIDES	2R01 GM19775-04	50,457
MARGERUM, DALE W.	ACTIVATION OF MOLECULAR OXYGEN BY METAL PEPTIDES	5R01 GM19775-05	45,708
MARKLEY, JOHN L.	NMR SPECTROSCOPY IN PROTEIN CHEMISTRY	2R01 GM19907-04	76,942
MARKLEY, JOHN L.	CONFIGURATIONAL CHANGES IN PROTEIN MOLECULES	5R01 HL14972-22	107,438
MARKLEY, JOHN L.	CONFIGURATIONAL CHANGES IN PROTEIN MOLECULES	5R01 HL14972-23	105,447
MC LAUGHLIN, JERRY L.	CACI AS DRUGS OF ABUSE	5R01 GM21211-03	31,253



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>INDIANA—Continued</b>			
MC MILLIN, DAVID R.	CHEMICAL AND PHYSICAL STUDIES OF COPPER PROTEINS.	1R01 GM22764-01	43,000
MENNEAR, JOHN H.	MECHANISMS OF DRUG-INDUCED DIABETES.	5R01 AM14134-05	22,615
MENNEAR, JOHN H.	STUDIES ON THE PANCREOTOXIC EFFECTS OF CADMIUM.	5R01 ES01123-02	53,913
MITTENTHAL, JAY E.	SYNAPTIC CONNECTIVITY IN MOTOR SYSTEMS.	5R01 NS11383-03	39,157
MIVA, TOM S.	CIRCADIAN RHYTHMS IN DRUG RESPONSE AND DRUG METABOLISM.	5R01 GM20340-03	28,768
MORTENSON, LEONARD E.	STUDY OF INORGANIC NITROGEN METABOLISM.	5R01 A104865-14	82,563
MORTENSON, LEONARD E.	STUDY OF INORGANIC NITROGEN METABOLISM.	5R01 A104865-15	89,284
MOSKOWITZ, MERWIN	LOW MOLECULAR WEIGHT CELL GROWTH FACTORS IN SERUM.	5R01 GM15076-02	84,128
NAKAJIMA, SHIGEHIRO.	CELLULAR BIOPHYSICS OF NEUROMUSCULAR FUNCTION.	2R01 NS08601-07	85,126
NAKAJIMA, SHIGEHIRO.	CELLULAR BIOPHYSICS OF NEUROMUSCULAR FUNCTION.	5R01 NS08601-08	85,579
NAKAJIMA, YASUKO	ULTRASTRUCTURE AND FUNCTION OF NERVE AND MUSCLE.	5R01 NS10457-05	49,717
OFFENBACH, STUART I.	DEVELOPMENT OF COLOR-FORM PREFERENCE AND PERCEPTION.	5R01 HD09514-02	28,227
OSTROY, SANFORD E.	RELATED MOLECULAR AND PHYSIOLOGICAL EVENTS IN VISION.	5R01 EY00413-08	43,488
PAK, WILLIAM L.	SENSORY EXCITATION AND INFORMATION FLOW IN THE RETINA.	5R01 EY00033-07	95,354
PARDUE, HARRY L.	INSTRUMENTATION FOR FAST CLINICAL ANALYSES.	5R01 GM13326-10	97,653
PASCHKE, JOHN D.	VIRAL PATHOGENS.	5R01 A109972-06	58,254
PINTO, LAWRENCE H.	IONIC MECHANISMS FOR RETINAL NEURON POTENTIALS.	5R01 EY01221-03	29,900
RAY, WILLIAM J, JR.	MECHANISM OF THE GROUP TRANSFER PROCESS.	5R01 GM08963-14	93,065
REMERS, WILLIAM A.	ANTITUMOR AGENTS—SYNTHESIS OF MITOMYCIN ANALOGS.	5R01 CA11686-06	47,139
RODWELL, VICTOR W.	CONTROL OF CHOLESTEROLENEMESIS IN LEUKOCYTES AND LIVER.	1R01 HL19223-01	59,041
ROSSMANN, MICHAEL G.	STRUCTURE OF A SMALL SPHERICAL VIRUS.	2R01 A111219-04	92,511
ROSSMANN, MICHAEL G.	STRUCTURAL STUDIES OF PROTEIN SUBUNITS.	5R01 GM10704-14	103,697
SIMON, EDWARD H.	INTERFERON: PRODUCTION AND ACTION IN SINGLE CELLS.	5R01 A111270-02	36,479
SIMON, EDWARD H.	INTERFERON: PRODUCTION AND ACTION IN SINGLE CELLS.	5R01 A111270-03	29,516
SMITH, L DENNIS	CYTOPLASMIC REGULATION AT EARLY CELL DIFFERENTIATION.	5R01 HD04229-08	93,932
SOMERVILLE, RONALD L.	REGULATORY MECHANISMS IN TRYPTOPHAN BIOSYNTHESIS.	5R01 GM22131-02	45,008
TESSMAN, ETHEL S.	REGULATORY MECHANISMS IN SMALL DNA PHAGES.	5R01 A111853-03	65,313
TOBIAS, R STUART	HEAVY METAL AND RELATED CHEMOTHERAPEUTIC AGENTS.	5R01 AM16101-05	67,606
TYLER, VARRO E.	BIOMEDICAL RESEARCH SUPPORT GRANT.	5S07 RR05586-09	59,003
UMBARGER, H EDWIN	BACTERIAL FLAGELLA.	5R01 A10685-21	33,030
UMBARGER, H EDWIN	ENZYMIC MECHANISMS IN BIOSYNTHETIC PATHWAYS.	5R01 GM12522-12	208,081
VAN ETEN, ROBERT L.	THE ACTIVE SITES OF ACID PHOSPHATASES.	2R01 CA10585-07	75,819
VAN ETEN, ROBERT L.	AN IMPROVED CLINICAL TEST FOR PROSTATIC ACID PHOSPHATASE.	1R01 CA19231-01	16,452
VAN ETEN, ROBERT L.	THE ANOMALOUS KINETICS OF ARYL SULFATASE A.	1R01 GM22933-01	56,476
WASSERMAN, GERALD S.	INTRACELLULAR STUDIES OF TEMPORAL SUMMATION.	7R01 NS12963-01	31,292
WASSERMAN, GERALD S.	INTRACELLULAR STUDIES OF TEMPORAL SUMMATION.	5R01 NS12963-02	32,859
WHISTLER, ROY L.	5-THIO-D-GLUCOSE IN THE GLYCOLYTIC PATHWAY.	5R01 AM18482-02	48,613
WHISTLER, ROY L.	4'-THIONUCLEOSIDES.	5R01 CA12422-05	58,502
WILLIAMS, LUTHER S.	REGULATION OF AMINOACYL-TRNA SYNTHETASE FORMATION.	5R01 GM21878-02	36,911
WILLIAMS, LUTHER S.	REGULATION OF AMINOACYL-TRNA SYNTHETASE FORMATION.	2R01 GM21878-03	69,066
YIM, GEORGE K.	MECHANISM OF LOCAL ANESTHETIC SEIZURES.	5R01 NS12077-02	32,190
ZALKIN, HOWARD	REGULATORY ENZYMES IN TRYPTOPHAN BIOSYNTHESIS.	5R01 CA11442-06	57,236
ORGANIZATION TOTAL	121	6,855,184	
STATE TOTAL	258	16,774,442	

## IOWA

### AMES

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ANGELICI, ROBERT J.	METAL COMPLEX CATALYSIS OF BIOLOGICAL REACTIONS.	2R01 GM12626-12	37,734
APPLEQUIST, JON B.	THEORY OF MOLECULAR OPTICAL PROPERTIES.	5R01 GM13684-10	27,896
APPLEQUIST, JON B.	CONFORMATIONAL INDUCTION IN COPOLYPEPTIDES.	3R01 GM21585-01S1	1,561
BARTON, THOMAS J.	SYNTHESIS AND STUDY OF HETEROCYCLOHEPTATRIENES.	5R01 GM16689-05	30,656
BARTON, THOMAS J.	SYNTHESIS AND STUDY OF HETEROCYCLOHEPTATRIENES.	5R01 GM16689-06	30,874
DAHM, PAUL A.	INSECTICIDE METABOLISM IN ANIMALS AND MICROORGANISMS.	5R01 ES00205-23	23,103
DELLMANN, HORST-DIETER	BRAIN-PARS INTERMEDIA AND ADRENAL CORTEX ACTIVITY.	7R01 NS12974-01	27,155

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>IOWA—Continued</b>			
FRENCH, DEXTER.....	MECHANISM OF AMYLASE ACTION.....	5R01 GM08822-15	69,604
FROMM, HERBERT J.....	REGULATION OF BRAIN AND TUMOR PHOSPHOTRANSFERASE.....	2R01 NS10546-10	39,548
FROMM, HERBERT J.....	REGULATION OF BRAIN AND TUMOR PHOSPHOTRANSFERASE.....	5R01 NS10546-11	42,479
GRAVES, DONALD J.....	ENZYMIC INTERCONVERSION AND REGULATION.....	5R01 GM09587-15	54,857
HARRIS, DELBERT L.....	CULTIVATION OF TREPONEMES AND IMMUNITY TO SYPHILIS.....	5R01 AI12129-03	43,599
HOROWITZ, JACK.....	STRUCTURAL BASIS OF RIBONUCLEIC ACID SPECIFICITY.....	5R01 GM09042-14	43,288
HOROWITZ, JACK.....	STRUCTURAL BASIS OF RIBONUCLEIC ACID SPECIFICITY.....	5R01 GM09042-15	50,448
MASON, MILDRED.....	SPATIAL REDUNDANCY, ITEM IDENTIFICATION, AND READING.....	1R01 EY01813-01	20,677
MC GILLIARD, A DARE.....	DIET, CHOLESTEROL ABSORPTION AND ATHEROSCLEROSIS.....	5R01 HL04969-15	55,460
METZLER, DAVID E.....	THE ACTION OF B VITAMINS IN ENZYMIC CATALYSIS.....	5R01 AM01549-20	82,877
NORDSKOG, ARNE W.....	HISTOCOMPATIBILITY IMMUNE RESPONSE GENES IN CHICKENS.....	5R01 AI12746-02	69,756
PATTEE, PETER A.....	GENETICS OF BIOSYNTHESIS IN STAPHYLOCOCCUS AUREUS.....	5R01 AI06647-10	16,045
POLLAK, EDWARD.....	RESEARCH IN MATHEMATICAL AND STATISTICAL GENETICS.....	2R01 GM13827-10	44,878
POLLAK, EDWARD.....	INTERNATIONAL CONFERENCE ON QUANTITATIVE GENETICS.....	1R13 GM23339-01	4,074
RANDIC, MIRJANA.....	SPINAL CORD CHEMICAL SENSITIVITY/FUNCTIONAL ORGANIZATION.....	7R01 NS12972-01	13,623
ROBSON, RICHARD M.....	HEART & SMOOTH MUSCLE CONTRACTILE PROTEIN STUDIES.....	5R01 HL15679-04	38,134
ROBSON, RICHARD M.....	HEART & SMOOTH MUSCLE CONTRACTILE PROTEIN STUDIES.....	5R01 HL15679-05	35,532
ROBYT, JOHN F.....	BIOSYNTHETIC STUDY OF DENTAL PLAQUE POLYSACCHARIDES.....	5R01 DE03578-05	53,284
STADLER, JOAN K.....	GENETIC ANALYSIS OF HUMAN LYMPHOCYTES IN CULTURE.....	5R01 GM20739-03	20,456
THOMAS, JAMES A.....	CONTROL OF GLYCOGEN SYNTHESIS IN HEART.....	5R01 HL13630-06	30,901
VERKADE, JOHN G.....	ELECTROSTEREOCHEMICAL PROPERTIES OF CYCLIC CARCINOSTATS.....	2R01 CA13968-04	36,006
VERKADE, JOHN G.....	ELECTROSTEREOCHEMICAL PROPERTIES OF CYCLIC CARCINOSTATS.....	5R01 CA13968-05	36,262
WAGNER, WILLIAM C.....	EFFECT OF ACTH OR STEROIDS ON GONADAL FUNCTION.....	5R01 HD08698-02	46,470
WAGNER, WILLIAM C.....	MECHANISM OF FETAL INITIATION AND CONTROL OF PARTURITION.....	5R01 HD08829-02	27,660
WARNER, CAROL M.....	THE IMMUNE RESPONSE OF ALLOPHENIC MICE.....	5R01 AI1752-03	31,322
YOUNG, DONALD F.....	EFFECT OF STENOTIC OBSTRUCTIONS ON FLOW IN ARTERIES.....	5R01 HL11717-08	32,798
YOUNG, JERRY W.....	GLUCONEOGENESIS IN RUMINANTS.....	5R01 AM10706-08	45,140
ZAFFARANO, DANIEL J.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07034-11	66,655
ORGANIZATION TOTAL	35	1,330,812	

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ABBOUD, FRANCOIS M.....	REGULATION OF THE CIRCULATION IN PATHOLOGICAL STATES.....	5P01 HL14388-05	963,421
ABRAMSON, MAXWELL.....	PATHOGENESIS AND BONE RESORPTION IN AURAL CHOLESTEATOMA.....	5R01 NS10608-04	67,534
ABRAMSON, MAXWELL.....	PATHOGENESIS AND BONE RESORPTION IN AURAL CHOLESTEATOMA.....	5R01 NS10608-05	70,325
AL-AWOATI, QAIS.....	CONTROL OF SODIUM TRANSPORT AND CELLULAR RESPIRATION.....	1R01 HL19071-01	53,431
ARNONE, ARTHUR.....	X-RAY STUDIES OF HEMOGLOBIN AND REGULATORY ENZYMES.....	5R01 AM17563-03	46,490
AUTOR, ANNE P.....	BIOCHEMICAL MECHANISMS OF PARAQUAT TOXICITY.....	1R13 GM23330-01	4,400
BAKER, ROBERT G.....	EYE MOVEMENT: PHYSIOLOGICAL ORGANIZATION.....	3R01 EY01074-03S1	5,115
BEAMS, H W.....	EFFECTS OF ULTRACENTRIFUGATION ON BACTERIA.....	5R01 GM22171-02	21,382
BENTON, ARTHUR L.....	PERFORMANCE TESTS IN CEREBRAL DISEASE.....	5R01 NS00616-22	25,601
BENTON, ARTHUR L.....	PERFORMANCE TESTS IN CEREBRAL DISEASE.....	2R01 NS00616-23	45,014
BHALLA, RAMESH C.....	CAO AND CYCLIC AMP IN CAUSATION OF HYPERTENSION.....	1R01 HL19027-01	48,413
BHATNAGAR, RANBIR K.....	EFFECTS OF DRUGS ON NEUROCHEMICAL MATURATION OF BRAIN.....	5R01 NS12121-02	35,616
BLAKLEY, RAYMOND L.....	ALLOSTERIC REGULATION OF MONOMERIC ENZYMES.....	5R01 CA11165-08	50,339
BLAKLEY, RAYMOND L.....	STRUCTURAL STUDIES ON DIHYDROFOLATE REDUCTASE.....	2R01 CA13840-04	79,377
BLAKLEY, RAYMOND L.....	STRUCTURAL STUDIES ON DIHYDROFOLATE REDUCTASE.....	5R01 CA13840-05	85,433
BLAKLEY, RAYMOND L.....	INHIBITORS OF HUMAN RIBONUCLEOTIDE REDUCTASE.....	5R01 CA16254-02	14,319
BONNEY, WILLIAM W.....	WORKSHOP IN GU CANCER IMMUNOLOGY.....	1R13 CA20684-01	17,707
BURNS, CHARLES P.....	LIPID METABOLISM OF LEUKOCYTES.....	1R01 CA17283-01A1	61,982
BURNS, CHARLES P.....	LIPID METABOLISM OF LEUKOCYTES.....	5R01 CA17283-02	61,109
BUTLER, JOHN E.....	BAMP TUMOR ANTIGEN: DISTRIBUTION AND IMMUNOCHEMISTRY.....	5R01 CA16932-02	35,812
CAPLAN, RICHARD M.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA18017-02	140,940
CHALKLEY, ROGER G.....	STRUCTURE AND FUNCTION OF CHROMOSOMAL NUCLEOHISTONE.....	2R01 CA10871-09	67,600
CHALKLEY, ROGER G.....	ORGANIZATION OF DNA AND HISTONE IN TUMOR CELL CHROMATIN.....	5R01 CA17224-02	24,978
CHRISTENSEN, JAMES.....	STUDIES OF THE SMALL INTESTINAL SLOW WAVE.....	5R01 AM08901-11	96,713
CHRISTENSEN, JAMES.....	REGULATION OF THE LOWER ESOPHAGEAL SPHINCTER.....	5R01 AM11242-10	30,563
CONWAY, THOMAS W.....	PROTEIN SYNTHESIS IN T4 BACTERIOPHAGE-INFECTED CELLS.....	2R01 AI1301-04	60,480

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>IOWA—Continued</b>			
COOKE, ALLAN R.	MECHANISMS REGULATING GASTRIC EMPTYING AND MOTILITY	5R01 AM15886-05	23,267
DAVIS, LEODIS	SERINE AND THREONINE METABOLISM	5R01 AM16950-03	34,403
DAWSON, DAVID C.	ION TRANSPORT BY THE COLON AND HORMONAL CONTROL	1R01 AM18776-01	41,669
DE GOWIN, RICHARD L.	HEMOPOIETIC CONTROL MECHANISMS	5R01 CA11472-05	45,089
DE GOWIN, RICHARD L.	EFFECTS OF RADIATION ON REPLICATING ENDOTHELIAL CELLS	5R01 CA15594-03	51,247
DE GOWIN, RICHARD L.	CANCER THERAPY AND THE HEMOPOIETIC MICROENVIRONMENT	5R01 CA18102-02	46,748
DI BONA, GERALD F.	NEUROGENIC CONTROL OF RENAL SODIUM HANDLING	5R01 AM15843-05	59,604
DIANA, JOHN N.	CAPILLARY PERMEABILITY IN HEART FAILURE AND SHOCK	5R01 HL16697-02	29,422
DIANA, JOHN N.	CAPILLARY PERMEABILITY IN HEART FAILURE AND SHOCK	5R01 HL16697-03	27,196
DONELSON, JOHN E.	DNA SEQUENCE AT REPLICATION ORIGINS OF PHIX174 AND M13	5R01 GM12696-02	66,275
DONHAM, KELLEY J.	THE PATHOGENESIS OF ASBESTOS RELATED BOWEL CANCER	5R26 CA16762-02	89,561
DONTA, SAM T.	CHOLERA TOXIN AND ADRENAL CELLS IN TISSUE CULTURE	5R22 AI11416-04	49,876
DONTA, SAM T.	ISOLATION AND STUDY OF E COLI ENTEROTOXINS	5R22 AI11794-02	34,795
DRYER, ROBERT L.	METABOLIC REGULATION IN BROWN ADIPOSE MITOCHONDRIA	1R01 GM22035-01A1	49,904
ECKBERG, DWAIN L.	BARORECEPTOR REFLEX MECHANISMS IN MAN	5R01 HL18083-02	29,834
ECKSTEIN, JOHN W.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00059-15	662,518
ECKSTEIN, JOHN W.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05372-15	261,305
ERNBERG, ALLEN P.	THYROID HORMONES AND THE FETAL AND NEONATAL LUNG	1R01 HD09677-01	72,238
FEISS, MICHAEL G.	VIRUS CHROMOSOME STRUCTURE: ROLE IN DEVELOPMENT	1R01 AI12851-01A1	17,834
FELDBUSH, THOMAS L.	IMMUNOLOGIC MEMORY IN THE IGA IMMUNE SYSTEM OF RATS	5R01 AI11796-02	38,775
FELDBUSH, THOMAS L.	IMMUNOLOGIC MEMORY IN THE IGA IMMUNE SYSTEM OF RATS	5R01 AI11796-03	44,020
FELLOWS, ROBERT E.	STRUCTURE AND FUNCTION OF GROWTH & LACTOGENIC HORMONES	7R01 AM19901-01	18,979
FILER, LLOYD J., JR.	GROWTH PATTERNS AND BODY COMPOSITION	5R01 HD01784-11	82,727
FITZ, ANNETTE E.	ANGIOTENSIN I AND CONVERTING ENZYME IN HYPERTENSION	5R01 HL12684-08	76,537
FLATT, ADRIAN E.	INFLUENCE OF WRIST PATHOMECHANICS ON HAND FUNCTION	5R01 AM14659-05	78,248
FLATT, ADRIAN E.	INFLUENCE OF WRIST PATHOMECHANICS ON HAND FUNCTION	5R01 AM14659-06	80,113
FOMON, SAMUEL J.	GROWTH AND NUTRITION OF NORMAL INFANTS	5P01 HD07578-02	299,444
FORKER, EDSON L.	MECHANISMS OF BILE FORMATION	5R01 AM09892-10	53,686
FORKER, EDSON L.	MECHANISMS OF BILE FORMATION	5R01 AM09892-11	56,936
FRANKEL, JOSEPH	MUTATIONAL STUDY OF CLILATE DEVELOPMENT	5R01 HD08485-03	48,704
GARDNER, ROBERT S.	MECHANISMS OF THYROID HORMONE ACTION	5R01 AM17447-03	36,647
GEBHART, GERALD F.	NEUROPHYSIOLOGY/PHARMACOLOGY OF CENTRAL NOCICEPTORS	5R01 GM22026-02	34,596
GEBHART, GERALD F.	NEUROPHARMACOLOGY OF INTRACRANIALY-INDUCED ANALGESIA	1R01 NS12114-01A1	18,503
GEBHART, GERALD F.	NEUROPHARMACOLOGY OF INTRACRANIALY-INDUCED ANALGESIA	5R01 NS12114-02	18,630
GRANNER, DARYL K.	CONTROL MECHANISMS IN CULTURED MAMMALIAN CELLS	3R01 CA12191-06S1	3,965
GRIGSBY, WILLIAM R.	ACQUIRED PELLICLE AS A COVALENT BINDING SITE	5R23 DE04140-02	10,424
GUSSIN, GARY N.	REX, A LAMBDA GENE NOT SUBJECT TO CI REPRESSION	5R01 AI10019-06	38,761
HALMI, NICHOLAS S.	INVESTIGATION OF THE THYROID AND PITUITARY	5R01 AM02463-18	54,701
HAYREH, SOHAN S.	OCULAR VASCULAR OCCLUSIVE DISORDERS - CLINICAL STUDY	5R01 EY01151-02	139,586
HAYREH, SOHAN S.	OCULAR VASCULAR OCCLUSIVE DISORDERS	5R01 EY01576-02	119,926
HEATH, EDWARD C.	CHEMISTRY AND METABOLISM OF POLYSACCHARIDES	7R01 AM19850-01	131,867
HEISTAD, DONALD D.	STUDY OF THE CHEMORECEPTOR REFLEX	5R01 HL16066-03	49,769
HENN, FRITZ A.	UPTAKE OF NEUROTRANSMITTERS AND IONS BY GLIA	5R01 NS11904-02	54,281
HENN, FRITZ A.	UPTAKE OF NEUROTRANSMITTERS AND IONS BY GLIA	5R01 NS11904-03	54,123
HERMSMEYER, R KENT	MEMBRANE ELECTRICAL PROPERTIES OF VASCULAR MUSCLE	5R01 HL16328-04	42,207
HILLMAN, DEAN E.	CIRCUITRY MODIFICATIONS & MATERNAL PROTEIN RESTRICTION	5R01 HD08843-02	58,905
HOGBEN, C ADRIAN	ACTION OF FUROSEMIDE ON CHLORIDE TRANSPORT	1R01 AM19020-01	29,199
HOGENKAMP, HENRICUS P.	STRUCTURE AND REACTIONS OF THE COBAMIDE COENZYMES	5R01 GM20307-11	43,823
HUBEL, KENNETH A.	WATER AND ELECTROLYTE TRANSPORT BY THE INTESTINE	1R01 AM18769-01A1	48,950
JOHNSON, WILLIAM	RIBOSOMAL VACCINES	5R01 AI10449-05	29,313
JOHNSTON, RICHARD C.	STUDY OF BIOMECHANICS OF HIP DISEASE	5R01 AM14486-06	92,051
JOSEPH, HYMAN	DYNAMIC MODEL OF CHILD SPACING AND DESIRED FAMILY SIZE	5R01 HD08718-02	23,485
KAELEBER, W W.	EXPERIMENTAL INVESTIGATIONS OF PAIN	1R01 GM23336-01	24,093
KARLSSON, ULF L.	STRUCTURE-FUNCTION CORRELATES OF INTRADENTAL NERVES	1R01 DE04339-01	88,124
KISKER, C THOMAS	COMMUNITY BASED THERAPY FOR CHILDREN WITH CANCER	1R18 CA18139-01	84,525
KISKER, C THOMAS	COMMUNITY BASED THERAPY FOR CHILDREN WITH CANCER	5R18 CA18139-02	92,937
KISKER, C THOMAS	DETECTION AND ADHERENCE OF FIBRIN MONOMER COMPLEXES	1R01 HL19105-01	39,866
LATA, GENE F.	STEROID HORMONE TRANSPORT IN MATURE AND AGING HUMAN	1R01 AG00304-01	39,784
LATA, GENE F.	STEROID HORMONE TRANSPORT IN MATURE AND AGING HUMAN	5R01 AG00304-02	42,999
LATA, GENE F.	MOLECULAR INTERACTIONS OF STEROID HORMONES	5R01 AM17867-02	32,424



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>IOWA—Continued</b>			
LAWTON, RICHARD L.	PRIMARY BREAST CANCER THERAPY GROUP (NSABP)	5R10 CA12036-05	30,127
LLINAS, RODOLFO R.	NEUROBIOLOGY OF CEREBELLAR PHYLOGENY AND ONTOGENY	5R01 NS09916-05	196,075
LOENING, STEFAN	CHEMOTHERAPY OF ADVANCED PROSTATIC CANCER	2R26 CA15108-03	2
LONG, JOHN P.	STUDIES ON AUTONOMIC TRANSMISSION	5R01 NS04431-14	29,065
LORKOVIC, HRVOJE R.	ANALYSIS OF CHANGES IN MUSCLES CAUSED BY DENERVATION	5R01 NS10833-03	36,000
LORKOVIC, HRVOJE R.	ANALYSIS OF CHANGES IN MUSCLES CAUSED BY DENERVATION	5R01 NS10833-04	39,960
LUBAROFF, DAVID M.	IMMUNOLOGIC ASPECTS OF PROSTATIC CANCER	5R26 CA18014-02	31,840
MACA, RICHARD D.	CELLULAR SIALOGLYCOPROTEINS AND ANTICANCER DRUGS	5R01 CA17870-02	38,203
MACKENZIE, IAN C.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05313-15	85,630
MARK, ALLYN L.	VENTRICULAR BARORECEPTORS IN CIRCULATORY CONTROL	5R01 HL16149-03	58,228
MARKOVETZ, ALLEN J.	MICROBIAL AND INSECT METABOLISM OF ALIPHATIC COMPOUNDS	2R01 GM19809-04	45,844
MARKOVETZ, ALLEN J.	MICROBIAL AND INSECT METABOLISM OF ALIPHATIC COMPOUNDS	5R01 GM19809-05	65,715
MC CABE, BRIAN F.	SURGICAL ANATOMY OF THE EAR AND TEMPORAL BONE	5R01 NS03855-14	84,013
MENNINGER, JOHN R.	CONTROL AND MECHANISM OF PROTEIN-CHAIN TERMINATION	5R01 GM20626-04	50,628
MOLL, KENNETH L.	CINEFLUOROGRAPHIC STUDIES OF SPEECH ARTICULATION	5R01 NS07555-09	54,109
MONTGOMERY, REX	STRUCTURES OF CARBOHYDRATE PROSTHETIC GROUPS	5R01 GM14013-07	54,182
MORRIS, HUGHLETT L.	DIAGNOSTIC AND PROGNOSTIC TECHNIQUES IN CLEFT PALATE	2P01 DE00853-19A1	393,028
MYERS, MARTIN G.	PATHOPHYSIOLOGY OF MALIGNANT VARICELLA INFECTION	1R01 AI13627-01A1	32,071
NEWLON, CAROL S.	DNA REPLICATION IN THE YEAST, SACCHAROMYCES CEREVISIAE	5R01 GM21510-02	46,435
OSBORNE, JAMES W.	ENZYMOLGY OF RADIATION-INDUCED INTESTINAL CARCINOMA	1R01 CA18327-01A1	59,225
PIETRZYK, DONALD J.	SEPARATION AND DETERMINATION OF CARCINOGENS	5R01 CA18555-02	43,375
PITKIN, ROY M.	CALCIUM METABOLISM IN PREGNANCY AND PERINATAL PERIOD	1R01 HD09373-01	65,463
PONSETI, IGNACIO V.	PROTEOLYCATS AND COLLAGEN IN SKELETAL GROWTH DISORDERS	5R01 AM00149-24	87,332
RANDLES, RONALD H.	ADAPTIVE DISCRIMINANT ANALYSIS FOR MEDICAL DECISIONS	5R01 GM22271-02	77,051
RICHERSON, HAL B.	PULMONARY RESPONSES TO INHALED ANTIGEN	1R01 HL19873-01	81,206
ROSASZA, JOHN P.	MICROBIAL TRANSFORMATIONS - NATURAL ANTITUMOR AGENTS	5R01 CA13786-03	26,835
ROSKOSKI, ROBERT, JR.	NEUROTRANSMITTER BIOSYNTHESIS	5R01 NS11310-03	31,532
SABISTON, CHARLES B, JR.	EVALUATION OF CLINICAL DENTAL ANAEROBIC BACTERIOLOGY	5R01 DE03662-05	31,997
SCHEDI, HAROLD P.	INTESTINAL TRANSPORT MECHANISMS AND THEIR REGULATION	2R01 AM02534-18	109,444
SCHEDI, HAROLD P.	INTESTINAL TRANSPORT MECHANISMS AND THEIR REGULATION	5R01 AM02534-19	114,597
SCHEDI, HAROLD P.	DUODENAL CALCIUM BINDING PROTEIN: ACTIONS AND CONTROL	5R01 AM16841-03	82,751
SCHMIDT, JOSEPH D.	STUDIES OF PRIMARY URINARY BLADDER NEOPLASMS	5R26 CA15933-03	28,321
SHERMAN, BARRY M.	ANOVAULT AND THE EPIDEMIOLOGY OF BREAST CANCER	5R01 CA15104-03	123,002
SHERMAN, BARRY M.	CELL BIOLOGY OF HUMAN BREAST CANCER AND MAMMARY GLAND	5P01 CA17649-02	216,100
SHIPTON, HAROLD W.	A BIOENGINEERING RESOURCE FACILITY	3P41 RR00716-07S1	76,846
SIX, ERICH W.	GENETIC STUDIES OF PHAGE-PROPHAGE INTERACTIONS	2R01 AI04043-15	69,160
SMITH, FRED G, JR.	RENAL FUNCTION IN THE MATURING FETUS	5R01 HD08953-03	80,695
SOLURSH, MICHAEL	CONTROL OF EXTRACELLULAR MATRIX SYNTHESIS	5R01 HD05505-05	38,541
SPECTOR, ARTHUR A.	LIPIDS, ATHEROSCLEROSIS AND THROMBOSIS	3P50 HL14230-05S1	181,418
SPECTOR, ARTHUR A.	LIPID DEPOSITION IN MAMMALIAN CELLS	5R01 HL14781-05	48,146
SPECTOR, ARTHUR A.	LIPID DEPOSITION IN MAMMALIAN CELLS	2R01 HL14781-06	106,104
SPIESTERSBACH, DUANE C.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07035-11	46,342
STEINMETZ, PHILIP R.	REGULATION OF URINARY ACIDIFICATION IN VITRO	2R01 AM17568-03	63,981
STELLWAGEN, EARLE C.	STRUCTURE-FUNCTION STUDIES OF CYTOCHROME C	5R01 GM13215-11	65,296
STELLWAGEN, EARLE C.	AFFINITY CHROMATOGRAPHY FOR THE DINUCLEOTIDE FOLD	5R01 GM22109-02	47,973
STINSKI, MARK F.	CYTOMEGALOVIRUS REPLICATION	1R01 AI13562-01	49,528
SWENSON, CHARLES A.	MYOSIN ATPASE MECHANISM AND ENERGY TRANSDUCTION	5R01 AM16736-03	21,814
TEPHLY, THOMAS R.	BIOCHEMICAL TOXICOLOGY AND PHARMACOLOGY	5P50 GM12675-12	922,907
TEPHLY, THOMAS R.	STUDIES ON METHANOL POISONING	5R01 GM19420-05	33,757
THOMPSON, JOHN S.	IMMUNOSUPPRESSIVE FACTORS IN HEPATOMA SERA & CORD BLOOD	5R01 CA15084-03	68,416
THOMPSON, ROBERT G.	HORMONE INTEGRATED CONCENTRATIONS IN DIABETES	5R01 AM18439-02	38,542
TOMANEK, ROBERT J.	INFLUENCE OF AGING AND HYPERTENSION ON THE MYOCARDIUM	1R01 HL18629-01	36,404
TOMANEK, ROBERT J.	INFLUENCE OF AGING AND HYPERTENSION ON THE MYOCARDIUM	5R01 HL18629-02	37,090
VAN ALLEN, MAURICE W.	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE	5R01 NS12496-02	132,059
VAN ORDEN, DIANNA E.	BIOGENIC AMINES AND PROSTAGLANDINS IN UTERINE FUNCTION	5R01 HD06380-05	84,557
VESTLING, CARL S.	LIVER AND HEPATOMA DEHYDROGENASES	2R01 CA07617-13	60,846
VESTLING, CARL S.	LIVER AND HEPATOMA DEHYDROGENASES	5R01 CA07617-14	64,254
WALTMAN, PAUL E.	SIMULATING THE DEVELOPMENT OF MEMORY AND PLASMA CELLS	5R01 CA18639-02	52,521
WEI, STEPHEN H.	CLINICAL AND CHEMICAL CHARACTERISTICS OF SN3FP04	5R01 DE03532-03	25,509
WILLIAMS, TERENCE H.	NEUROPLASTICITY, AND PROMOTING CENTRAL REGENERATION	2R01 NS11650-03	48,970



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>IOWA—Continued</b>			
WILLIAMS, TERENCE H.....	NEUROPLASTICITY, AND PROMOTING CENTRAL REGENERATION.....	5R01 NS11650-04	46,315
YOUNOSZAI, M KABIR.....	INTESTINAL FUNCTION DURING INFANCY AND CHILDHOOD.....	5R01 HD08227-02	36,287
YOUNOSZAI, M KABIR.....	INTESTINAL FUNCTION DURING INFANCY AND CHILDHOOD.....	5R01 HD08227-03	38,448
ORGANIZATION TOTAL	149	11,555,624	
<b>MOUNT VERNON</b>			
CORNELL COLLEGE	ZIP CODE 52314		
JORDAN, TRUMAN H.....	CLINICAL AND CHEMICAL CHARACTERISTICS OF SN3F3P04.....	5R01 DE03531-03	10,058
JORDAN, TRUMAN H.....	SNF2 REACTION WITH APATITE AND OTHER CA/PO4 SYSTEMS.....	5R01 DE04192-02	12,373
ORGANIZATION TOTAL	2	22,431	
STATE TOTAL	186	12,908,867	
<b>KANSAS</b>			
<b>KANSAS CITY</b>			
UNIVERSITY OF KANSAS	ZIP CODE 66103		
ARNOLD, WILFRED N.....	CELL ENVELOPES OF PATHOGENIC YEASTS.....	1R01 AI13177-01	45,765
AZARNOFF, DANIEL L.....	FACTORS AFFECTING THE RESPONSES TO DRUGS.....	5P50 GM15956-09	538,956
BARTH, ROLF F.....	STUDIES ON HUMAN TUMOR SPECIFIC IMMUNITY.....	3R01 CA13190-03S1	14,183
BARTH, ROLF F.....	ANTIGENIC MODIFICATION OF LEUKOCYTES TAGGED WITH DNP.....	2R01 CA16503-02	78,141
BARTH, ROLF F.....	ANTIGENIC MODIFICATION OF LEUKOCYTES TAGGED WITH DNP.....	5R01 CA16503-03	96,106
BELMONT, JOHN M.....	DEVELOPMENT OF CHILDREN'S SELF-CONTROLLED COGNITION.....	5R01 HD08911-02	50,477
BOLINGER, ROBERT E.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00828-03	182,377
BUNAG, RUBEN D.....	HYPERTENSION PRODUCED BY SYMPATHETIC DYSFUNCTION.....	2R01 HL14560-05A1	49,047
BUNAG, RUBEN D.....	CONTRACEPTIVE STEROIDS AND EXPERIMENTAL HYPERTENSION.....	1R01 HL19144-01	40,857
BUTTERFIELD, EARL C.....	INFANT AUDITORY PERCEPTION AND LEARNING.....	5R01 HD04756-06	71,610
COHN, DAVID V.....	PARATHYROID AND PROPARATHYROID HORMONE.....	5R01 AM18323-02	66,117
COOK, JAMES D.....	MUCOSAL IRON TRANSPORT.....	1R01 AM19011-01	55,595
COOKE, ALLAN R.....	MECHANISMS REGULATING GASTRIC EMPTYING AND MOTILITY.....	7R01 AM19924-01	21,390
CUPPAGE, FRANCIS E.....	REGENERATION AND BASIC RESPONSES OF THE NEPHRON.....	5R01 AM1206-10	19,444
DICK, ARTHUR R.....	BLOOD FLOW AND ACID-BASE METABOLISM IN CEREBRAL EDEMA.....	5R01 NS09514-04	51,012
DICKMANN, ZEEY.....	ASPECTS OF STEROIDOGENESIS IN PREIMPLANTATION EMBRYOS.....	5R01 HD08644-02	45,379
EBNER, KURT E.....	MECHANISM OF LACTOSE SYNTHESIZING ENZYMES.....	5R01 AM18257-02	48,184
EBNER, KURT E.....	MECHANISM OF LACTOSE SYNTHESIZING ENZYMES.....	5R01 AM18257-03	53,253
EBNER, KURT E.....	FUNCTION AND INTERACTIONS OF MAMMARY CARCINOMA CELLS.....	5R01 CA17478-02	21,542
FAINSTADT, THEODORE.....	PROSTAGLANDINS ON LUTEAL ORGAN CULTURE AND UTERUS.....	3R01 HD08272-02S1	7,204
FISHER, HARVEY F.....	STRUCTURE AND MECHANISMS OF ACTION OF ENZYMES.....	5R01 GM15188-10	49,667
FRENKEL, JACOB K.....	TOXOPLASMOSIS: ITS TRANSMISSION AND PREVENTION.....	2R01 AI07489-10	73,219
FRENKEL, JACOB K.....	EFFECTS OF CANCER AND THERAPY ON INFECTION AND IMMUNITY.....	5R01 CA13822-04	60,292
GOLDBERG, IVAN D.....	A GENETIC APPROACH TO THE STUDY OF N. GONORRHOEA.....	2R01 AI1168-04A1	52,088
GRANTHAM, JARED J.....	MECHANISMS OF TRANSPORT IN ISOLATED KIDNEY TUBULES.....	5R01 AM13476-07	52,989
GREENWALD, GILBERT S.....	FOLLICULAR AND LUTEAL REGULATION IN THE MAMMALIAN OVARY.....	5R01 HD00596-14	44,545
GRISOLIA, SANTIAGO.....	N-ACYL, N-CARBAMYL AMINO ACID METABOLISM.....	5R01 AM01855-22	73,810
HERMRECK, ARLO S.....	THE STUDY OF ACUTE RENAL FAILURE.....	5R01 HL14362-05	28,205
HOOGSTRATEN, BARTH.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	5R10 CA12644-05	245,746
HOOGSTRATEN, BARTH.....	SOUTHWEST ONCOLOGY GROUP - OPERATIONS OFFICE.....	3R10 CA16943-01S1	7,466
HOOGSTRATEN, BARTH.....	SOUTHWEST ONCOLOGY GROUP - OPERATIONS OFFICE.....	5R10 CA16943-02	597,517
HUDSON, BILLY G.....	STUDIES ON THE STRUCTURE OF BASEMENT MEMBRANES.....	5R01 AM18381-03	31,767
HUMPHREY, LOREN J.....	STUDY OF CANCER OF THE BREAST.....	5R01 CA12869-06	70,954
HUMPHREY, LOREN J.....	SURGERY OR TRAUMA: IMPACT UPON INFECTIOUS COMPLICATION.....	1R01 GM23147-01	73,142
HUNG, KUEN-SHAN.....	DEVELOPMENT OF PULMONARY INNERVATION.....	1R01 HD10139-01	21,752
JEWELL, WILLIAM R.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17959-02	72,321
JOHNSON, DONALD C.....	ENDOCRINOLOGY OF EXPERIMENTAL OVARIAN TUMORS.....	5R01 CA15622-03	41,926
KIMMEL, JOE R.....	STRUCTURE-FUNCTION RELATIONSHIPS IN PROTEINS.....	5R01 AM09072-12	52,935
KIRCHNER, FERNANDO R.....	RADIOISOTOPE SCANNING OF THE MIDDLE EARS AND SINUSES.....	1R01 NS12521-01	30,154

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>KANSAS—Continued</b>			
KIRCHNER, FERNANDO R.....	RADIOISOTOPE SCANNING OF THE MIDDLE EARS AND SINUSES.....	5R01 NS12521-02	25,390
KLAASSEN, CURTIS D.....	BILIARY EXCRETION IN NEONATAL TOXICOLOGY.....	5R01 AM14513-06	33,495
KLAASSEN, CURTIS D.....	BILIARY EXCRETION IN NEONATAL TOXICOLOGY.....	5R01 AM14513-07	41,118
KLAASSEN, CURTIS D.....	CADMIUM TOXICOLOGY.....	5R01 ES01142-02	42,005
LANSKY, SHIRLEY B.....	CHILDHOOD CANCER: PSYCHOSOCIAL REHABILITATION.....	5R18 CA17806-02	117,542
LOWMAN, JAMES T.....	NATIONAL CANCER RESEARCH AND DEMONSTRATION CENTER.....	3P30 CA15080-02S1	37,916
LOWMAN, JAMES T.....	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE).....	2P30 CA15080-03	321,634
MAGUIRE, M HELEN.....	PURINE NUCLEOTIDE METABOLISM IN HEMOCHORIAL PLACENTAS.....	5R01 HD08653-02	53,464
MATTIOLI, LEONE F.....	FETAL RENIN SYSTEM IN HYPOXIC AND HYPOVOLEMIC STRESS.....	1R01 HD10137-01	22,949
MELNYKOVYCH, GEORGE.....	STEROID INDUCED CHANGES IN CULTURED MALIGNANT CELLS.....	5R01 CA08315-12	54,347
MILLS, RUSSELL C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05373-15	175,198
NELSON, STANLEY R.....	HEMODYNAMIC EFFECTS OF BRAIN EDEMA.....	5R01 HL16480-02	20,158
NELSON, STANLEY R.....	ENERGY REQUIREMENTS FOR NEURONAL ACTIVITY.....	5R01 NS11353-03	16,226
PIERCE, GEORGE E.....	IN VITRO MONITORING OF HUMAN RENAL ALLOGRAFT REJECTION.....	5R01 AI13186-02	52,157
POISNER, ALAN M.....	THE CONTROL OF RENIN IN THE ADRENAL MEDULLA.....	5R01 HL16102-03	14,543
RAWITCH, ALLEN B.....	THE ROLE OF THYROGLOBULIN IN THYROXINE BIOSYNTHESIS.....	5R01 AM18896-02	21,382
REISSMANN, KURT R.....	STUDIES ON ERYTHROPOIETIN.....	5R01 AM07239-13	30,745
REISSMANN, KURT R.....	STUDIES ON ERYTHROPOIETIN.....	5R01 AM07239-14	35,297
REISSMANN, KURT R.....	SELECTIVE MYELOTXIC EFFECT OF ANTITUMOR DRUGS.....	2R01 CA08736-11	38,178
ROBINSON, RALPH G.....	CLINICAL EVALUATION OF 99MTC AS A LEUKOCYTE LABEL.....	1R01 GM22814-01	50,956
SCHLOERB, PAUL R.....	KINETICS OF WATER AND ELECTROLYTES IN SHOCK.....	5R01 HL02363-18	63,487
SULLIVAN, LAWRENCE P.....	STUDY OF FACTORS AFFECTING RENAL POTASSIUM TRANSPORT.....	5R01 AM15883-05	33,330
SVOBODA, DONALD J.....	HEPATOCELLULAR RESPONSES TO DRUGS AND CARCINOGENS.....	5R01 CA05680-15	42,656
TARR, CHARLES M.....	CONTRACTILE ACTIVITY OF SINGLE CARDIAC CELLS.....	1R01 HL18943-01	40,974
UYEKI, EDWIN M.....	STUDY OF TOXICITY OF ANTITUMOR DRUGS.....	5R01 CA14386-03	40,988
UYEKI, EDWIN M.....	TOXICITY OF BENZENE AND RELATED COMPOUNDS.....	5R01 ES01004-02	27,403
WELLING, LARRY W.....	ANALYTIC FORMULATION OF TRANSPORT IN SINGLE NEPHRONS.....	5R01 AM16968-03	39,157
WELLING, LARRY W.....	ANALYTIC FORMULATION OF TRANSPORT IN SINGLE NEPHRONS.....	5R01 AM16968-04	36,899
WONG, KIN-PING.....	RIBOSOMAL PROTEIN, PROTEIN-RNA INTERACTION AND FUNCTION.....	7R01 GM22962-01	38,686
WONG, KIN-PING.....	RIBOSOMAL PROTEIN, PROTEIN-RNA INTERACTION AND FUNCTION.....	5R01 GM22962-02	44,781
WONG, KIN-PING.....	ACQUISITION OF NATIVE CONFORMATION OF PROTEIN.....	5R01 HL18905-02	28,379
WOOD, GARY W.....	ROLE OF MACROPHAGES IN TUMOR GROWTH AND METASTASIS.....	1R01 CA19333-01	28,732
WOOD, JACKIE D.....	STUDY OF CONGENITAL MEGACOLON OF MICE.....	5R01 AM16813-03	17,704
ORGANIZATION TOTAL	72	4,925,010	

## LAWRENCE

### U.S. DEPARTMENT OF THE INTERIOR—HASKELL INDIAN JUNIOR COLLEGE ZIP CODE 66044

ASHAPANEK, DON C.....	BIOMEDICAL SCIENCES SUPPORT (MINORITIES).....	1S06 RR08137-01	105,157
ORGANIZATION TOTAL	1	105,157	

### UNIVERSITY OF KANSAS ZIP CODE 66045

ADAMS, RALPH N.....	ELECTROCHEMISTRY-EPR OF BIOLOGICAL ELECTRON TRANSFER.....	5R01 NS08740-10	34,272
ADAMS, RALPH N.....	ELECTROCHEMISTRY-EPR OF BIOLOGICAL ELECTRON TRANSFER.....	2R01 NS08740-11	52,063
AKAGI, JAMES M.....	STUDIES ON SULFATE REDUCING BACTERIA.....	5R01 AI04672-13	27,548
BORCHARDT, RONALD T.....	STRUCTURAL ANALOGS OF S-ADENOSYLMETHIONINE.....	5R01 NS10198-04	36,217
BORCHARDT, RONALD T.....	INHIBITION OF CATECHOL-O-METHYLTRANSFERASE.....	5R01 NS10918-03	32,144
BULLER, CLARENCE S.....	VIRUS INDUCED CHANGES IN MEMBRANE FUNCTION.....	5R01 AI12820-02	36,236
BURTON, PAUL R.....	EM STUDIES OF MICROTUBULAR ELEMENTS AND A RICKETTSIA.....	5R01 AI06448-12	26,419
CHURCH, JAMES D.....	STATISTICAL METHODS FOR SMALL-SAMPLE BIOASSAY.....	1R01 GM23192-01	18,433
CRAWFORD, MICHAEL H.....	DENTAL EVOLUTION OF TRANSPLANTED MEXICAN POPULATIONS.....	5R01 DE04115-02	34,890
DAVIS, JOHN C.....	FSH ACTIONS ON MAMMALIAN TESTIS CELLS IN CULTURE.....	7R01 HD10953-01	38,630
EVERETT, GROVER W, JR.....	STUDIES OF METAL BINDING IN TETRACYCLINE ANTIBIOTICS.....	5R01 AI11608-02	25,646
FAIMAN, MORRIS D.....	DISULFIRAM-OXYGEN THERAPY: OXYGEN TOXICITY CONCEPTS.....	2R01 NS07797-05A1	53,320
FOX, J EUGENE.....	STUDIES ON A CYTOKININ-BINDING PROTEIN.....	1R01 GM22842-01	46,919
GIVENS, RICHARD S.....	EXPLORATORY AND SYNTHETIC PHOTOCHEMISTRY.....	2R01 GM16611-07	30,995
GIVENS, RICHARD S.....	STUDIES ON MUSCARINIC NEUROTRANSMITTER ANALOGS.....	5R01 NS12271-02	27,012
GRUNEWALD, GARY L.....	CONFORMATIONALLY DEFINED ADRENERGIC AMINES.....	1R01 GM22988-01	47,659
HANZLIK, ROBERT P.....	THE ROLE OF EPOXIDES IN METABOLISM AND DRUG TOXICITY.....	5R01 GM21784-02	40,241

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>KANSAS—Continued</b>			
HEFFNER, HENRY E.....	BEHAVIORAL ANALYSIS OF THE ROLE OF AUDITORY CORTEX.....	1R01 NS12992-01	27,661
HERSH, ROBERT T.....	PROPERTIES OF ALPHA CRYSTALLIN OF THE LENS.....	1R01 EY01702-01	31,980
HIGUCHI, TAKERU.....	CYTOTOXIC AND MUTAGENIC MECHANISMS.....	5R01 GM18348-05	27,766
HIMES, RICHARD H.....	FORMYL-TETRAHYDROFOLATE SYNTHETASE.....	5R01 AM07140-12	31,526
HOLLIS, JOHN.....	USE OF NONSPEECH RESPONSES TO TEACH COMMUNICATION.....	5R01 HD07339-02	47,028
HOUSTON, L LUGENE.....	RICIN: A PLANT AGGLUTININ WITH ANTITUMOR PROPERTIES.....	5R01 CA16206-02	37,555
HOUSTON, L LUGENE.....	A MULTIENZYME COMPLEX IN THE HISTIDINE PATH.....	5R01 GM19992-05	34,924
LEE, BYUNGKOOK.....	CRYSTALLOGRAPHIC STUDIES ON THE ENZYME L-ASPARAGINASE.....	5R01 CA16237-03	35,798
LINDENBAUM, SIEGFRIED.....	THERMODYNAMIC STUDIES OF BILE ACID MICELLAR SOLUTIONS.....	5R01 AM18084-03	21,789
MC CHESNEY, JAMES D.....	CYTOKININ GLYCOSIDES—POTENTIAL ANTITUMOR AGENTS.....	1R01 CA19978-01	32,208
MC LEAN, JAMES E.....	A SPECIAL CLINICAL CENTER FOR COMMUNICATIONS RESEARCH.....	5P50 NS11601-03	206,421
MERTES, MATHIAS P.....	COFACTOR INHIBITION OF THYMIDYLATE SYNTHETASE.....	5R01 CA07522-12	57,157
MERTES, MATHIAS P.....	CANCER CHEMOTHERAPY: CONTROL OF GENE EXPRESSION.....	5R01 CA16423-02	37,835
MERTES, MATHIAS P.....	CENTER FOR DRUG DESIGN.....	1P01 GM22357-01	311,068
MERTES, MATHIAS P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05606-10	46,843
MITTSCHER, LESTER A.....	NEW ANTIBIOTICS—ISOLATION, SYNTHESIS, AND EVALUATION.....	2R01 AI13155-02	63,494
MULDER, JOHN B.....	IMPROVEMENT OF ANIMAL CARE SERVICES AND FACILITIES.....	1P40 RR00996-01	200,630
ORR, JAMES A.....	CENTRAL CHEMORECEPTORS AND STIMULI INTERACTION.....	1R23 HL19622-01	39,418
RISLEY, TODD.....	THE DEVELOPMENT OF CULTURALLY DEPRIVED CHILDREN.....	5P01 HD03144-09	332,269
ROBERTSON, DONALD C.....	PATHOGENICITY OF ENTEROTOXIGENIC ESCHERICHIA COLI.....	5R22 AI12357-02	40,796
RUTLEDGE, CHARLES O.....	DRUGS ON RELEASE OF BIOGENIC AMINES AND BEHAVIOR.....	2R01 NS12760-02	87,985
SCHIEFFELBUSCH, RICHARD L.....	PROGRAM FOR A RESEARCH CENTER IN MENTAL RETARDATION.....	2P30 HD02528-10	532,895
SCHOWEN, RICHARD L.....	ENZYME EFFECTOR DESIGN.....	2R01 GM20198-03	56,929
SCHOWEN, RICHARD L.....	MODELS FOR BIOLOGICAL TRANSMETHYLATION.....	5R01 GM20199-02	41,980
SNYDER, HENRY L.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07037-11	123,614
SPRADLIN, JOSEPH E.....	COMMUNICATIONS RESEARCH WITH RETARDED CHILDREN.....	2P01 HD00870-13	536,868
STANNARD, JERRY.....	HISTORY OF MEDICINAL USES OF VEGETABLE GUMS.....	5R01 LM02054-03	10,138
STELLA, VALENTINO J.....	THIAMINE PRO-DRUGS IN ALCOHOLISM AND ENCEPHALOPATHIES.....	5R01 NS11998-02	32,956
STERNSON, LARRY A.....	OXIMES IN THE STUDY OF AMINE-MEDIATED CARCINOGENESIS.....	2R01 CA18615-02	32,078
STERNSON, LARRY A.....	THE ROLE OF ARYLHYDROXYLAMINES IN CARCINOGENESIS.....	1R01 CA19288-01	48,291
STONE, HENRY O, JR.....	PROTEINS OF MEASLES AND DISTEMPER VIRUSES.....	5R01 AI11741-02	31,135
STONE, HENRY O, JR.....	PROTEINS OF MEASLES AND DISTEMPER VIRUSES.....	5R01 AI11741-03	26,306
WEAVER, ROBERT F.....	TRANSCRIPTION CONTROL IN NUCLEAR POLYHEDROSIS VIRUS.....	5R01 GM22127-02	46,073
WEIR, JOHN A.....	ANIMAL RESOURCE - INBRED AND MUTANT MOUSE STOCKS.....	5P40 RR00343-10	17,362
ZIMBRICK, JOHN D.....	EPR STUDIES ON DETECTION AND TREATMENT OF CANCER.....	5R01 CA14335-02	40,209
ZIMBRICK, JOHN D.....	STUDIES ON DNA BASE DAMAGE INDUCED BY GAMMA RADIATION.....	5R01 GM18927-05	42,275
ORGANIZATION TOTAL	53 3,979,904		
<b>MANHATTAN</b>			
<b>KANSAS STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE ZIP CODE 66506</b>			
BODE, VERNON C.....	BIOCHEMICAL STUDIES ON THE REGULATION OF DNA FUNCTION.....	2R01 GM18182-05	70,568
CENTER, MELVIN S.....	DNA METABOLISM IN VIRUS INFECTED BACTERIA.....	5R01 AI10238-05	29,080
CENTER, MELVIN S.....	DNA METABOLISM IN VIRUS INFECTED BACTERIA.....	5R01 AI10238-06	36,103
CONRAD, GARY W.....	FIBROBLAST DIFFERENTIATION DURING EYE DEVELOPMENT.....	5R01 EY00952-05	35,347
CONRAD, GARY W.....	MOLLUSCAN POLAR LOBES: ROLE IN EMBRYONIC DEVELOPMENT.....	5R01 HD07193-03	20,038
CONSIGLI, RICHARD A.....	STUDIES IN POLYOMA TRANSFORMED CELLS - VIRION PROTEINS.....	5R01 CA07139-13	69,858
COX, DAVID J.....	SELF-ASSOCIATION REACTIONS OF MACROMOLECULES.....	5R01 GM22243-02	35,825
CRAIG, JAMES V.....	SOCIAL STRESS, MATURITY, AND FITNESS.....	5R01 HD06782-04	42,217
DAVIS, LAWRENCE C.....	DIRECT SCANNING GEL FILTRATION ON INTERACTING SYSTEMS.....	1R01 GM23039-01	58,878
FLORA, CORNELIA B.....	PERCEIVED ADVANTAGES & DISADVANTAGES OF CHILDBEARING.....	1R01 HD10681-01	39,176
HEDGCOTH, CHARLIE, JR.....	EFFECT OF VIRUS-INDUCED TRANSFORMATION ON TRNA.....	5R01 CA12741-05	38,176
KRUH, R F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07036-11	54,260
MANNEY, THOMAS R.....	GENE FUNCTIONS ASSOCIATED WITH THE SEXUAL CYCLE.....	5R01 GM19175-05	58,965
MANNEY, THOMAS R.....	GENE FUNCTIONS ASSOCIATED WITH THE SEXUAL CYCLE.....	5R01 GM19175-06	66,306
MARCHINI, GEORGE L.....	VIRAL MODIFICATION OF AN AMINO ACID ACTIVATING ENZYME.....	5R01 AI10858-05	35,295
REECK, GERALD R.....	TUMOR-ENRICHED NONHISTONE CHROMATIN PROTEINS.....	5R01 CA17782-02	34,892
ROCHE, THOMAS E.....	REGULATION OF LIVER AND BRAIN PYRUVATE DEHYDROGENASE.....	5R01 AM18320-02	38,619
RODKEY, L SCOTT.....	AUTOREGULATION OF IMMUNE PROCESSES.....	5R01 AI12389-02	40,195



Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued

Principal investigator	Project title	Grant number	Dollars
<b>KANSAS—Continued</b>			
ROUFA, DONALD J.....	CONTROL OF DNA REPLICATION IN ANIMAL CELLS AND VIRUS.....	7R01 GM23013-01	56,662
SMITH, JOSEPH E.....	GLUTATHIONE DEFICIENCY IN RED CELLS.....	5R01 HL12972-07	40,581
SPOONER, BRIAN S.....	MICROFILAMENTS, MORPHOGENESIS, AND CYTODIFFERENTIATION.....	5R01 GM19289-05	63,223
WESTFALL, JANE A.....	ELECTRON MICROSCOPY OF NEURONS, AXONS AND SYNAPSES.....	5R01 NS10264-04	35,450
ORGANIZATION TOTAL	22 999,714		
<b>TOPEKA</b>			
<b>MENNINGER FOUNDATION ZIP CODE 66601</b>			
KOVACH, JOSEPH K.....	DEVELOPMENT OF A BEHAVIORAL PHENOTYPE.....	2R01 HD06770-04	90,989
ORGANIZATION TOTAL	1 90,989		
<b>WICHITA</b>			
<b>VETERANS ADMINISTRATION CENTER ZIP CODE 67218</b>			
MELLINGER, GEORGE T.....	COOPERATIVE UROLOGICAL RESEARCH.....	3R10 CA16499-01S1	241,216
ORGANIZATION TOTAL	1 241,216		
<b>WICHITA STATE UNIVERSITY ZIP CODE 67208</b>			
NISHIMURA, ALLAN M.....	THE EXCITED TRIPLET ELECTRONIC STATE OF FLAVINS.....	3R01 GM21770-01S1	4,700
NISHIMURA, ALLAN M.....	THE EXCITED TRIPLET ELECTRONIC STATE OF FLAVINS.....	5R01 GM21770-02	13,466
ORGANIZATION TOTAL	2 18,166		
STATE TOTAL	152 10,360,156		
<b>KENTUCKY</b>			
<b>FRANKFORT</b>			
<b>KENTUCKY STATE UNIVERSITY ZIP CODE 40601</b>			
RIDGEL, GERTRUDE C.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08124-02	49,499
RIDGEL, GERTRUDE C.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08124-03	34,487
ORGANIZATION TOTAL	2 83,986		
<b>LEXINGTON</b>			
<b>EPHRAIM MC DOWELL COMMUNITY CANCER NETWORK ZIP CODE 40503</b>			
GOLDENBERG, DAVID M.....	EXPLORATORY STUDY IN CANCER INREACH NETWORK.....	1R18 CA19470-01	125,470
ORGANIZATION TOTAL	1 125,470		
<b>UNIVERSITY OF KENTUCKY ZIP CODE 40506</b>			
BANWELL, JOHN G.....	CONTROL OF ENTEROTOXIN INDUCED SECRETION.....	5R01 AI12030-02	24,876
BANWELL, JOHN G.....	CONTROL OF ENTEROTOXIN INDUCED SECRETION.....	5R01 AI12030-03	29,735
BARKLEY, MARY D.....	PHYSICAL STUDIES OF THE LAC REPRESSOR.....	7R01 GM22873-01	30,652
BARKLEY, MARY D.....	PHYSICAL STUDIES OF THE LAC REPRESSOR.....	2R01 GM22873-02	52,400
BAUMAN, DAVID S.....	IMMUNOLOGIC MECHANISM OF PULMONARY CAVITATION.....	5R01 HL16327-03	65,619
BOLLUM, FREDERICK J.....	DNA POLYMERASES IN NORMAL AND LEUKEMIC LYMPHOID CELLS.....	2R01 CA08487-11	160,816
BOLLUM, FREDERICK J.....	DNA POLYMERASES IN NORMAL AND LEUKEMIC LYMPHOID CELLS.....	5R01 CA08487-12	149,310
BONNER, PHILIP H.....	INNERVATION AND MUSCLE CELL TYPES IN EARLY MYOGENESIS.....	1R01 HD10307-01	35,852
BROOKS, WILLIAM H.....	IMMUNOBIOLOGY OF PRIMARY INTRACRANIAL TUMORS.....	1R01 CA18234-01	67,341
BULLOCK, WARD E.....	IN VIVO STUDIES OF DELAYED HYPERSENSITIVITY IN LEPROSY.....	5R22 AI10094-06	54,136
CHAN, SHUNG K.....	ALPHA-1-ANTITRYPSIN STRUCTURE IN RELATION TO EMPHYSEMA.....	5R01 HL16166-03	73,361
CLAWSON, D DAY.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05374-15	146,082
COLE, JAMES S.....	DEVELOPMENT OF A PULSED DOPPLER VELOCITY DETECTOR.....	1R01 HL20630-01	50,564
COLEMAN, MARY S.....	TERMINAL TRANSFERASE IN MAMMALIAN HEMOPOIETIC CELLS.....	1R01 CA19492-01	41,503
CSAKY, T Z.....	A STUDY OF BIOLOGICAL TRANSPORT OF SUGARS.....	5R01 AM15734-14	38,377
DICKSON, ROBERT C.....	EUCARYOTIC ENZYME INDUCTION: YEAST BETA-GALACTOSIDASE.....	1R01 GM22749-01	41,384



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>KENTUCKY—Continued</b>			
DIEDRICH, DONALD F.	PHLORIZIN INHIBITION OF SUGAR TRANSPORT	2R01 AM06878-14	63,425
DIEDRICH, DONALD F.	PHLORIZIN INHIBITION OF SUGAR TRANSPORT	5R01 AM06878-15	68,097
DRUMMOND, JAMES F.	ENDOTOXINS AND ETIOLOGY OF PERIODONTITIS	5R01 DE04083-02	42,852
FLESHER, JAMES W.	METABOLIC CHARACTERISTICS OF CHEMICAL CARCINOGENESIS	5R01 CA15270-03	47,813
GALLA, JOHN H.	STEROID-INDUCED HYPERLIPIDEMIA AND HYPERTENSION	1R01 HL18923-01	64,228
GETTES, LEONARD S.	EFFECT OF DRUGS ON PURKINE AND VENTRICULAR FIBERS	5R01 HL13321-06	67,629
GETTES, LEONARD S.	EFFECT OF DRUGS ON ISCHEMIC CARDIAC CELLS	2R01 HL13321-07	69,960
GOCKERMAN, JON P.	PLATELET TRANSFUSIONS IN ALLOIMMUNIZED PATIENTS	1R01 CA19107-01	37,893
GOLDENBERG, DAVID M.	A MODEL FOR COLONIC CANCER-ASSOCIATED ANTIGENS	5R26 CA15799-03	71,080
GOLDENBERG, DAVID M.	ROLE OF IN VIVO CELL FUSION IN NEOPLASIA	5R01 CA17198-02	60,711
GOLDENBERG, DAVID M.	RADIOLOGICAL LOCALIZATION OF HUMAN TUMORS	5R01 CA17742-02	35,635
GORDON, HELMUT A.	PRODUCTION OF IMPROVED GERM-FREE ANIMALS	1R01 RR01042-01	57,876
GRIFFEN, WARD O.	EXPLORATORY STUDIES IN CANCER RESEARCH	5P20 CA16572-02	122,244
HAKIM, RAZIEL S.	ROLE OF METAPLASIA IN A NONDIVIDING CELL SYSTEM	5R01 HD07908-03	25,211
HAMBURG, JOSEPH	ANNUAL REVIEW OF ALLIED HEALTH EDUCATION AND RESEARCH	5R01 LM01927-03	25,167
HOLLAND, PHILIP C.	TERMINAL TRANSFERASE AND SURFACE MARKERS IN LEUKEMIA	1R01 CA19842-01	67,978
HURLEY, LAURENCE H.	BIOSYNTHESIS AND MODE OF ACTION OF ANTHRAMYCIN	5R01 CA17047-02	34,811
HUSSAIN, ANWAR A.	DELIVERY DEVICE FOR CHLORHEXIDINE IN THE ORAL CAVITY	5R01 DE04194-02	41,803
HUTTON, JOHN J.	ENZYME REGULATION IN THE HEMOPOIETIC SYSTEM	5R01 AM16013-05	39,489
KOTCHEN, JANE M.	HIGH BLOOD PRESSURE IN THE YOUNG	1R01 HL19956-01	91,470
KOTCHEN, THEODORE A.	RENIN KINETICS IN HYPERTENSIVE AND UREMIC PLASMA	5R01 HL15528-03	33,356
LESNAW, JUDITH A.	REPLICATION OF NEGATIVE STRAND RNA VIRUSES	1R01 AI13574-01	32,023
LESTER, ROBERT L.	THE BIOCHEMISTRY OF INOSITOL PHOSPHOLIPIDS IN FUNGI	5R01 AI12299-02	79,885
LUKE, ROBERT G.	STUDIES ON RENAL CHLORIDE EXCRETION	5R01 AM13859-06	59,807
MARUYAMA, YOSH.	STUDY OF TUMOR RADIOBIOLOGY	3R01 CA13849-03S1	7,030
MARUYAMA, YOSH.	RADIATION THERAPY ONCOLOGY PROGRAM	5P01 CA17786-02	199,157
MATERE, RICHARD S.	PHASE EQUILIBRIUM AND SETTING IN DENTAL AMALGAMS	5R01 DE02147-12	32,616
MEEKER, WILLIAM R, JR.	COOPERATIVE STUDY OF ONCOLOGY	3R10 CA12283-05S1	32,641
MEEKER, WILLIAM R, JR.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA18107-02	66,014
MILLER, RALPH E.	NEURAL REGULATION OF INSULIN SECRETION RATE	5R01 AM17082-03	41,960
MOORHEAD, EDWARD D.	DEVELOPMENT OF TRACE GALLIUM ASSAY	5R01 GM20472-02	33,477
NOBLE, ROBERT C.	CLASSIFICATION OF GONOCOCCI AND ANTIGEN ANALYSIS	5R01 AI11304-03	22,243
OTHMER, ENKEHARD	CLASSIFICATION OF SLEEP EEG BY BIASECTOR ANALYSIS	2R01 NS12048-02	75,588
PETT, DONALD M.	STRUCTURAL PROTEINS OF ONCOGENIC HUMAN PAPOVAVIRUSES	7R01 CA20880-01	52,642
RANDALL, DAVID C.	BEHAVIORAL INFLUENCES ON CARDIAC CONTRACTILITY	7R01 HL19343-01	46,757
RHOADS, ROBERT E.	REGULATION OF OVALBUMIN SYNTHESIS IN CHICK OVIDUCT	5R01 GM20818-03	28,195
ROSENTHAL, GERALD A.	THE ENZYMOLOGY OF ARGININE AND CANAVANINE BIOSYNTHESIS	5R01 AM17322-03	6,702
SABES, WILLIAM R.	CLINICAL CANCER EDUCATION PROGRAM (DENTAL)	5R25 CA17992-02	33,829
SAMMON, PATRICK J.	STUDIES INTO THE METABOLISM OF PARATHYROID HORMONE	1R23 DE04280-01	14,363
SMITH, COY D.	EPIDEMIOLOGIC STUDY OF BLASTOMYCOSIS	5R01 AI11790-03	24,970
ZECHMAN, FRED W.	CONTROL OF VENTILATION IN HEALTH AND DISEASE	5P01 HL16878-02	161,260
ZECHMAN, FRED W.	CONTROL OF VENTILATION IN HEALTH AND DISEASE	5P01 HL16878-03	205,994
ORGANIZATION TOTAL	58	3,484,869	

## LOUISVILLE

### UNIVERSITY OF LOUISVILLE      ZIP CODE 40208

BENSON, ROBERT W.	CONTROL OF GENE TRANSCRIPTION IN AGING ANIMALS	5R01 AG00385-03	29,231
BURTON, ROBERT M.	A RADIOIMMUNOASSAY FOR HUMAN OVARIAN CANCER	5R01 CA15256-03	42,410
BURZYNSKI, NORBERT J.	CLINICAL CANCER EDUCATION PROGRAM (DENTAL)	5R25 CA18006-02	31,377
CARR, LAURENCE A.	BIOCHEMISTRY OF LONG-TERM MEMORY FORMATION	5R01 NS12129-02	46,916
FRIEND, JERRY P.	ESTROGEN AND PITUITARY DEVELOPMENT	5R01 HD08844-02	33,300
HOLT, J. P.	RESIDUAL VOLUME AND SIMILARITY IN THE CIRCULATION	5R01 HL02075-20	48,812
HOPE, GEORGE M.	COLD LIMITS ON PHOTORECEPTOR VIABILITY AND FUNCTION	5R01 EY01228-02	20,146
HORAN, LEO G.	SOUTHEASTERN CANCER CHEMOTHERAPY GROUP	5R10 CA16389-02	54,905
HORAN, LEO G.	EMF PATTERNS DECODED TO HEART GEOMETRY BY DIPOLAR PAIR	5R01 HL16901-03	37,347
HUANG, KEE C.	MECHANISM OF RENAL AND INTESTINAL TRANSPORT	5R01 AM02217-17	48,070
JOHNSON, ALAN A.	BIOMEDICAL RESEARCH SUPPORT GRANT	1S07 RR07153-01	28,748
KALSOW, CAROLY M.	AUTOANTIGENS OF THE GUINEA PIG RETINA AND UVEA	5R23 EY01516-02	9,775

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>KENTUCKY—Continued</b>			
KEEFE, J RICHARD .....	CYTOLOGY OF RETINAL DIFFERENTIATION.....	5R01 EY01676-02	55,567
KEENEY, ARTHUR H .....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05375-15	88,518
LIU, PINGHUI V .....	HEMOLYSINS OF STAPHYLOCOCCI AND PSEUDOMONAS AERUGINOSA.....	5R01 AI05283-13	41,372
LIU, PINGHUI V .....	HEMOLYSINS OF STAPHYLOCOCCI AND PSEUDOMONAS AERUGINOSA.....	2R01 AI05283-14	34,750
MEYER, JOHN R .....	CAROTID BODY CONTROL OF VENTILATION.....	5R01 HL16239-03	47,431
MILLER, LOUISE B .....	FOUR PRESCHOOL PROGRAMS: DIMENSIONS AND EFFECTS-II.....	5R01 HD05354-06	27,571
MOORE, CONDUCT .....	EXPLORATORY STUDIES FOR CANCER RESEARCH.....	3P20 CA13799-03S1	108,471
MOORE, CONDUCT .....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17985-02	102,309
POTTS, ALBERT M .....	THE ACTION OF DRUGS AND POISONS ON THE EYE.....	1R01 EY01591-01A1	85,129
POTTS, ALBERT M .....	PATHOPHYSIOLOGICAL STUDIES ON OPTIC NERVE.....	5R01 EY01704-02	93,722
RAO, VENKATESWARA C .....	PROSTAGLANDIN; GONADOTROPIN RECEPTORS IN CORPORA LUTEA.....	1R01 HD09577-01	81,225
REID, KENNETH H .....	NEUROPHYSIOLOGY OF TOOTH PAIN.....	5R01 DE03644-04	29,612
SIGDESTAD, CURTIS P .....	RADIATION PROTECTORS AS AN ADJUNCT TO RADIOTHERAPY.....	5R01 CA14668-03	27,130
SPATOLA, ARNO F .....	AMINO ACID SURROGATES.....	5R01 HD09120-02	28,035
STAAT, ROBERT H .....	DENTAL PLAQUE GLUCANOHYDROLASES AND CRIES FORMATION.....	1R01 DE04666-01	62,004
TAYLOR, K GRANT .....	USEFUL AMINES VIA CYCLOADDITIONS OF AZA-1,3-DIENES.....	5R01 GM19212-02	52,490
VOOGT, JAMES L .....	PITUITARY HORMONES AND BRAIN AMINES DURING REPRODUCTION.....	3R01 HD06907-03S1	4,719
WACKER, WALDON B .....	AUTO AND ISO-IMMUNE RESPONSE TO OCULAR TISSUES.....	3R01 EY00254-10A1S1	3,471
WESTPHAL, ULRICH F .....	STEROID-PROTEIN INTERACTIONS.....	5R01 AM06369-15	99,405
WILLIAMS, DONALD E .....	DERIVATION OF NONBONDED POTENTIAL PARAMETERS.....	2R01 GM16260-08	38,870
WILSON, RONALD S .....	HERITABILITY AND MENTAL DEVELOPMENT.....	3R01 HD07200-02S1	15,231
WONG, JOHN L .....	CHEMICAL CARCINOGENESIS: CAUSE AND PREVENTION.....	5R01 CA16182-03	41,559
YANKEELOV, JOHN A, JR .....	COVALENT CONTROL OF CORNEA-DAMAGING COLLAGENASE.....	5R01 EY00969-04	79,180
YANKEELOV, JOHN A, JR .....	COVALENT CONTROL OF CORNEA-DAMAGING COLLAGENASE.....	2R01 EY00969-05	74,421
ORGANIZATION TOTAL	36	1,753,229	
<b>RICHMOND</b>			
<b>EASTERN KENTUCKY UNIVERSITY</b>	<b>ZIP CODE 40475</b>		
MARDON, DAVID N .....	TREATMENT OF CANDIDA INFECTIONS IN LEUKEMIC MICE.....	7R01 CA21041-01	28,467
ORGANIZATION TOTAL	1	28,467	
STATE TOTAL	98	5,476,021	
<b>LOUISIANA</b>			
<b>BATON ROUGE</b>			
<b>GULF SOUTH RESEARCH INSTITUTE</b>	<b>ZIP CODE 70808</b>		
WALSH, GERALD P .....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05672-06	26,717
ORGANIZATION TOTAL	1	26,717	
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY AT BATON ROUGE</b>	<b>ZIP CODE 70803</b>		
CHANG, SIMON H .....	ROLE OF TRANSFER RNA IN CELLULAR AGING.....	5R01 AG00454-03	29,538
CHANG, SIMON H .....	TRANSFER RNA IN NORMAL AND NEOPLASTIC HUMAN CELLS.....	5R01 CA16841-02	25,202
CULLEY, DUDLEY D, JR .....	CONTROL OF BREEDING AND DISEASES OF LABORATORY FROGS.....	5P40 RR00635-05	56,231
EVILIA, RONALD F .....	STUDIES ON CHROMATOGRAPHIC SEPARATIONS OF ENANTIOMERS.....	5R01 GM20645-03	12,321
FISCHER, NIKOLAUS H .....	SESQUITERPENE LACTONES FROM MELAMPODIINAE (COMPOSITAE).....	1R01 CA19800-01	37,764
HALES, BRIAN J .....	STRUCTURE AND REACTIVITY OF PHOTOTRAP COMPLEXES.....	5R01 GM21701-02	15,869
HALES, BRIAN J .....	RADICAL INTERACTIONS IN RIGID MEDIA.....	1R01 GM23272-01	44,201
HOUK, KENDALL N .....	THE APPLICATION OF NEW CYCLOADDITIONS TO DRUG SYNTHESIS.....	5R01 GM17652-03	30,872
HOUK, KENDALL N .....	PHOTOELECTRON SPECTROSCOPY OF DRUGS AND CARCINOGENS.....	5R01 GM21311-02	24,832
LEE, WILLIAM R .....	QUANTITATIVE GENETIC STUDY OF ENVIRONMENTAL MUTAGENS.....	5R01 ES00320-09	62,788
NEWKOME, GEORGE R .....	PYRIDINE HETEROMACROCYCLES: FUTURE BIOLOGICAL MODELS.....	5R01 GM20985-05	38,455
PRYOR, WILLIAM A .....	FREE RADICAL REACTIONS IN BIOLOGICAL SYSTEMS.....	5R01 GM11908-09	53,515
PRYOR, WILLIAM A .....	BIO-ORGANIC CHEMISTRY OF OZONE, NO2 AND TOBACCO SMOKE.....	5R01 HL16029-03	70,259
RIOPPELLE, ARTHUR J .....	PRE- & POSTNATAL UNDERNUTRITION & ADAPTIVE CAPACITY.....	5R01 HD07479-03	118,467
TRAYNHAM, JAMES G .....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07039-05	27,941

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>LOUISIANA—Continued</b>			
WOLCOTT, R MICHAEL.....	CELL MEMBRANE ALTERATIONS ASSOCIATED WITH MALIGNANCY.....	7R01 CA21660-01	52,031
ORGANIZATION TOTAL	16 700,286		
<b>SOUTHERN UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE ZIP CODE 70813</b>			
CHRISTIAN, FRED A.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08025-05	119,217
ORGANIZATION TOTAL	1 119,217		
<b>CARVILLE</b>			
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 70721</b>			
KIRCHHEIMER, WALDEMAR F.....	STUDY OF NINE-BANDED ARMADILLOS FOR LEPROSY RESEARCH.....	5R22 AI11204-03	91,690
ORGANIZATION TOTAL	1 91,690		
<b>COVINGTON</b>			
<b>TULANE UNIVERSITY ZIP CODE 70433</b>			
BRIZZEE, KENNETH R.....	PRENATAL LOW-DOSE IRRADIATION EFFECTS ON PRIMATE BRAIN.....	1R01 HD09942-01	74,021
LI, YU-TEH.....	GLYCOSIDASES AS RELATED TO SPHINGOLIPIDOSES.....	5R01 NS09626-06	70,671
LOWRIE, ROBERT C, JR.....	ARTHROPOD VECTORS OF FILARIAE.....	1R22 AI13555-01	15,872
MARTIN, LOUIS N.....	STUDIES OF IMMUNOGLOBULIN D IN NONHUMAN PRIMATES.....	5R01 AI12610-02	27,313
ORIHIEL, THOMAS C.....	STUDY OF FILARIAE OF MAN IN PRIMATES.....	2R22 AI10269-05	53,391
ROBERTS, JAMES A.....	HOST-PARASITE INTERACTION IN PYELONEPHRITIS.....	2R01 AM14681-07	88,057
ROBERTS, JAMES A.....	HOST-PARASITE INTERACTION IN PYELONEPHRITIS.....	5R01 AM14681-07	97,579
WALSH, JOHN J.....	SUPPORT FOR REGIONAL PRIMATE RESEARCH CENTER.....	5P40 RR00164-15	1,630,829
ORGANIZATION TOTAL	8 2,057,733		
<b>GRAMBLING</b>			
<b>GRAMBLING STATE UNIVERSITY ZIP CODE 71245</b>			
HILL, FRANKLIN D.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08054-04	97,886
ORGANIZATION TOTAL	1 97,886		
<b>LAFAYETTE</b>			
<b>UNIVERSITY OF SOUTHWESTERN LOUISIANA ZIP CODE 70501</b>			
WHITMIRE, DANIEL P.....	MAGNETIC ENHANCEMENT OF ELECTRON LET IN TUMORS.....	1R01 CA18269-01	75,186
ORGANIZATION TOTAL	1 75,186		
<b>NEW IBERIA</b>			
<b>GULF SOUTH RESEARCH INSTITUTE-ATCHAFALAYA BASIN LABORATORIES ZIP CODE 70560</b>			
STORRS, ELEANOR E.....	METABOLISM OF DDS BY THE ARMADILLO.....	5R22 AI10927-03	78,676
STORRS, ELEANOR E.....	STUDY OF LEPROSY IN THE ARMADILLO.....	5R22 AI11532-03	73,234
STORRS, ELEANOR E.....	DEVELOPMENT OF A LABORATORY ANIMAL RESOURCE.....	2P40 RR00455-08	140,305
ORGANIZATION TOTAL	3 292,215		
<b>NEW ORLEANS</b>			
<b>ALTON OCHSNER MEDICAL FOUNDATION ZIP CODE 70121</b>			
ERWIN, DONALD T.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05518-14	28,424
FROHLICH, EDWARD D.....	HEMODYNAMIC RELATIONS TO METABOLISM IN HYPERTENSION.....	7R01 HL20572-01	125,834
PORTER, GEORGE H, III.....	SOUTHEASTERN CANCER STUDY GROUP.....	5R10 CA15578-03	29,632
SEGALOFF, ALBERT.....	COOPERATIVE STUDY OF BREAST CANCER.....	3R10 CA03364-18S1	75,548
WALSH, GERALD M.....	REGIONAL HEMODYNAMICS IN SPONTANEOUS HYPERTENSION.....	1R01 HL20542-01	35,205
ORGANIZATION TOTAL	5 294,643		
<b>DILLARD UNIVERSITY ZIP CODE 70122</b>			
VERRETT, JOYCE M.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08064-05	44,584



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>LOUISIANA—Continued</b>			
ORGANIZATION TOTAL	1	44,584	
<b>GULF SOUTH RESEARCH INSTITUTE—LAKE POMTCHARTRAIN LABORATORIES ZIP CODE 70146</b>			
MAY, PAUL D.....	CHLORINATED POLYETHYLENE FOR MAXILLOFACIAL PROSTHESES.....	1R01 DE04392-01	90,431
MONTALVO, JOSEPH G., JR.....	AMMONIUM ION SPECIFIC ELECTRODE.....	5R01 GM22254-02	45,795
ORGANIZATION TOTAL	2	136,226	
<b>LOUISIANA HEALTH AND HUMAN RESOURCES ADMINISTRATION—CHARITY HOSPITAL OF LOUISIANA ZIP CODE 70140</b>			
HULL, EDGAR W.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	5P20 CA14493-02	136,263
HULL, EDGAR W.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	2P20 CA14493-03	150,961
ORGANIZATION TOTAL	2	287,224	
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS ZIP CODE 70119</b>			
BERENSON, GERALD S.....	BIOCHEMISTRY OF CARDIOVASCULAR CONNECTIVE TISSUE.....	5R01 HL02942-20	122,893
BERENSON, GERALD S.....	SUPPORT FOR ARTERIOSCLEROSIS RESEARCH CENTER.....	5P50 HL15103-05	719,939
BERLIN, CHARLES I.....	PERIPHERAL AND CENTRAL AUDITORY MECHANISMS.....	5P01 NS11647-02	229,773
BICKERS, JOHN N.....	SOUTHWEST ONCOLOGY GROUP INSTITUTIONAL MEMBERSHIP.....	5R10 CA16422-02	54,337
BOBBIN, RICHARD P.....	MECHANISM OF ACTION OF THE OLIVOCOCLEAR BUNDLE.....	5R01 NS10463-02	24,913
BOBBIN, RICHARD P.....	MECHANISM OF ACTION OF THE OLIVOCOCLEAR BUNDLE.....	5R01 NS10463-03	25,062
BOCKMAN, EMMA L.....	BLOOD FLOW REGULATION IN MUSCLE.....	5R01 HL17932-02	29,729
CASTRO, ANTHONY J.....	NEURAL PLASTICITY IN THE RODENT MOTOR SYSTEM.....	5R01 NS11200-03	8,047
COHN, ISIDORE, JR.....	PRIMARY BREAST CANCER THERAPY GROUP (NSABP).....	5R10 CA12031-05	22,946
COHN, ISIDORE, JR.....	ADMINISTRATION OF NATIONAL PANCREATIC CANCER PROJECT.....	5R26 CA17500-02	233,720
COHN, ISIDORE, JR.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	5P40 RR00272-11	130,354
HALPERIN, VICTOR.....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA18703-01	36,404
HARTMAN, ARTHUR D.....	ADIPOCYTE METABOLISM AS RELATED TO CELL SIZE.....	7R01 AM19995-01	23,862
HENEHGAN, JAMES B.....	GASTROINTESTINAL PHYSIOLOGY IN GNOTOBIOTES.....	1R01 AM18886-01A1	45,271
HOWE, CALDERON.....	IMMUNOCHEMICAL STUDY OF VIRUS RECEPTORS & INFECTED CELLS.....	5R01 AI10945-05	61,697
JEANSONNE, EDMUND E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05704-06	23,958
KASTEN, FREDERICK H.....	ELECTRON MICROSCOPIC AND CYTOCHEMICAL STUDIES OF DNA.....	5R01 CA12067-05	30,375
KOSTRZEWA, RICHARD M.....	GROWTH AND DEVELOPMENT OF MONOAMINERGIC NEURONS.....	7R01 NS13412-01	24,013
LEVITZKY, MICHAEL G.....	SYSTEMIC EFFECTS ON PULMONARY HEMODYNAMICS.....	1R23 HL19372-01	36,440
LILES, SAMUEL L.....	CHOREIFORM DYSKINESIA AFTER STRIATAL LESIONS.....	5R01 NS08907-06	40,896
MORGAN, LEE R.....	BIOCHEMICAL MARKERS IN DISEASES OF THE LARGE BOWEL.....	5R26 CA16766-02	57,108
NANCE, FRANCIS C.....	SURGICAL PATHOPHYSIOLOGY IN GNOTOBIOTIC ANIMALS.....	5R01 AI10095-05	83,412
NARAYANAN, C H.....	NEUROEMBRYOLOGY OF JAW MUSCLE PROPRICEPTION.....	5R01 DE04258-02	29,570
O'QUINN, SILAS E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05376-15	123,822
REEVES, RICHARD E.....	BIOCHEMISTRY OF ENTERIC AMOEBA AND RELATED ORGANISMS.....	5R01 AI02951-15	36,948
SMITH, DIANE E.....	POSTNATAL DEVELOPMENT OF THE SPINOCEREBELLAR SYSTEMS.....	7R01 NS13155-01	35,934
SPITZER, JOHN J.....	STUDY OF REMOVAL AND MOBILIZATION OF LIPIDS.....	5R01 HL16850-03	97,721
STRONG, JACK P.....	NATURAL AND EXPERIMENTAL ATHEROSCLEROSIS.....	5P01 HL08974-12	420,955
STRONG, JACK P.....	NATURAL AND EXPERIMENTAL ATHEROSCLEROSIS.....	2P01 HL08974-13	250,400
VILLAREJOS, VICTOR M.....	EPIDEMIOLOGY OF HEPATITIS B ANTIGEN AND VIRAL HEPATITIS.....	1R01 AI12910-01	213,539
WEBSTER, DOUGLAS B.....	CENTRAL PROJECTIONS OF RESIDUAL SPIRAL GANGLION CELLS.....	1R01 NS12510-01A1	36,392
WILSON, LAWRENCE A.....	IMMUNOBIOCHEMICAL STUDIES OF TRANSPLANTATION ANTIGENS.....	5R01 AI11907-02	28,010
WILSON, LAWRENCE A.....	IMMUNOBIOCHEMICAL STUDIES OF TRANSPLANTATION ANTIGENS.....	5R01 AI11907-03	29,893
ZELEDON, RODRIGO A.....	EPIDEMIOLOGY AND IMMUNITY OF LEISHMANIASIS.....	1R01 AI13572-01	66,432
ORGANIZATION TOTAL	34	3,434,765	
<b>LOUISIANA STATE UNIVERSITY SYSTEM—UNIVERSITY OF NEW ORLEANS ZIP CODE 70122</b>			
BRYAN, SARAH A.....	INDUCTION OF METALLOTHIONEIN BY CADMIUM, COPPER, MERCURY.....	5R01 ES00802-05	85,536
ELDER, S THOMAS.....	PHYSIOLOGICAL CORRELATES OF CONDITIONED BLOOD PRESSURE.....	1R01 HL18823-01	38,666
GITHENS, SHERWOOD, III.....	CARCINOGENESIS OF PANCREATIC DUCTAL TISSUE IN VITRO.....	1R26 CA19177-01	64,928
GOLDBERG, STANLEY I.....	STEREOCHEMICAL CRITERIA FOR THE MICELLE-ENZYME ANALOGY.....	5R01 GM19335-03	34,535
GRIFFIN, GARY W.....	SYNTHESIS, PHOTO AND THERMOCHEMISTRY OF ARENE OXIDES.....	1R01 CA18346-01	49,627
GUILBAULT, GEORGE G.....	EFFECT OF ENVIRONMENTAL POLLUTANTS ON ENZYME SYSTEMS.....	5R01 ES00426-05	26,173
GUILBAULT, GEORGE G.....	EFFECT OF ENVIRONMENTAL POLLUTANTS ON ENZYME SYSTEMS.....	5R01 ES00426-06	27,778
GUILBAULT, GEORGE G.....	ELECTRODE PROBES USING ENZYMES.....	5R01 GM17268-05	29,063
GUILBAULT, GEORGE G.....	A REAGENTLESS MONITORING SYSTEM FOR ENZYME ANALYSES.....	5R01 GM18646-03	23,759
ORGANIZATION TOTAL	9	380,065	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>LOUISIANA—Continued</b>			
<b>SOUTHERN UNIVERSITY NEW ORLEANS CAMPUS      ZIP CODE 70126</b>			
PATTERSON, THOMAS J.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08056-05	55,904
ORGANIZATION TOTAL      1      55,904			
<b>ST. MARY'S DOMINICAN COLLEGE      ZIP CODE 70118</b>			
ALDRICH, HAVEN S.....	MOLECULAR GENEOLGY OF ANTICONVULSANT COMPOUNDS.....	2R01 NS12472-02	4,750
ORGANIZATION TOTAL      1      4,750			
<b>TOURO INFIRMARY      ZIP CODE 70115</b>			
HYMAN, EDWARD S.....	COMPLEXES OF ALKALI CATIONS IN A LIPID PHASE.....	5R01 AM12718-06	14,248
ORGANIZATION TOTAL      1      14,248			
<b>TULANE UNIVERSITY      ZIP CODE 70118</b>			
AGRAWAL, KRISHNA C.....	DEVELOPMENT OF ANTITUMOR AND RADIOSENSITIZING AGENTS.....	1R01 CA21050-01	57,501
ALWORTH, WILLIAM L.....	BIOSYNTHESIS OF THE DBI MOIETY OF VITAMIN B12.....	5R01 AM10067-10	23,470
ARCOS, JOSEPH C.....	PHARMACOLOGY & BIOCHEMISTRY OF THE ONCOGENE, DIOXANE.....	5R01 CA15111-03	58,892
ARIMURA, AKIRA.....	PHYSIOLOGY OF HYPOTHALAMIC NEUROHORMONES.....	5R01 AM09094-11	58,544
ARIMURA, AKIRA.....	PHYSIOLOGICAL STUDIES ON LH-RELEASING HORMONE.....	5R01 HD06555-03	37,686
AYALA, STEPHEN C.....	MALARIA PARASITES OF REPTILE POPULATIONS.....	5R01 AI12511-02	21,927
BANTA, JAMES E.....	GENERAL RESEARCH SUPPORT GRANT.....	5S07 RR05444-15	54,527
BEAVER, PAUL C.....	OCCULT HELMINTHIC INFECTIONS.....	2R01 AI04919-14	50,964
BEAVER, PAUL C.....	SUPPORT FOR INTERNATIONAL CENTER FOR MEDICAL RESEARCH.....	5R07 AI10050-16	684,406
BOWERS, CYRIL Y.....	STUDIES ON HYPOTHALAMIC THYROTROPIN-RELEASING FACTOR.....	5R01 AM06164-14	78,482
BOWERS, CYRIL Y.....	HYPOTHALAMIC RELEASING AND INHIBITING HORMONES.....	5R01 AM18494-02	71,966
BRULEY, DUANE F.....	MATHEMATICAL STUDIES OF OXYGEN DIFFUSION IN THE BRAIN.....	5R01 NS12009-03	50,534
BURCH, GEORGE E.....	CONGESTIVE HEART FAILURE AND PERIPHERAL CIRCULATION.....	5R01 HL13616-07	56,645
CHANDRAN, K B.....	HEMODYNAMICS IN CURVED ARTERIES.....	1R01 HL18156-01A1	63,010
COY, DAVID H.....	SYNTHESIS AND BIOLOGY OF ANALOGUES OF SOMATOSTATIN.....	5R01 AM18370-02	30,147
DEENER, DAVID R.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07040-09	33,633
DI LUZIO, NICHOLAS R.....	ROLE RECOGNITION FACTORS AND MACROPHAGES IN NEOPLASIA.....	5R01 CA13746-04	101,131
DOMER, FLOYD R.....	NEW NEUROPHARMACOLOGIC TOOLS FOR CHOLINERGIC STUDIES.....	5R01 NS11580-02	46,598
DOMER, JUDITH E.....	HOST RESPONSES IN EXPERIMENTAL CANDIDIASIS.....	5R01 AI12806-02	59,319
DOMINGUE, GERALD J.....	PREVENTION OF PYELONEPHRITIS.....	5R01 AI09612-05	57,942
EHRLICH, MELANIE.....	MODIFIED DNA AND GENE THERAPY.....	5R01 GM20687-03	36,132
ELLISON, JEFFREY P.....	REFLEXOGENIC ZONES OF THE HEART: A MORPHOLOGIC STUDY.....	5R01 HL13616-07	21,844
FISHER, JAMES W.....	KIDNEY CONTROL OF ERYTHROPOIETIN PRODUCTION.....	5R01 AM13211-08	62,565
GEORGE, WILLIAM J.....	CYCLIC NUCLEOTIDES AND CARDIAC FUNCTION.....	5R01 HL13776-05	32,849
GEORGE, WILLIAM J.....	CYCLIC NUCLEOTIDES AND ERYTHROPOIESIS.....	3R01 HL14976-03S1	2,577
GERALL, ARNOLD A.....	HORMONAL AND NEURAL CORRELATES OF REPRODUCTIVE BEHAVIOR.....	5R01 HD00867-14	100,843
GOTTLIEB, A ARTHUR.....	CHARACTERIZATION OF TRANSFER FACTOR.....	7R01 AI13386-01	47,250
GOTTLIEB, A ARTHUR.....	CHARACTERIZATION OF TRANSFER FACTOR.....	5R01 AI13386-02	51,659
GOTTLIEB, A ARTHUR.....	DNA POLYMERASE INHIBITOR IN SERA OF TUMOR-BEARING HOSTS.....	7R01 CA19164-01	42,423
GOTTLIEB, A ARTHUR.....	DNA POLYMERASE INHIBITOR IN SERA OF TUMOR-BEARING HOSTS.....	5R01 CA19164-02	43,993
GUTH, PAUL S.....	COCHLEAR PHARMACOLOGY-NEUROTRANSMISSION.....	5R01 NS10312-03	43,199
HAMLIN, JAMES T, III.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05377-15	150,595
HAMORI, EUGENE.....	KINETIC STUDIES OF CONFORMATION CHANGES OF NUCLEIC ACIDS.....	5R01 GM20008-04	39,754
HEWITT, ROBERT L.....	CARDIAC ANOXIA: PROTECTIVE EFFECT OF CARBOHYDRATE.....	2R01 HL15813-03	62,098
HOLLAND, MONTE G.....	PHYSIOLOGY AND PHARMACOLOGY OF AQUEOUS HUMOR FLOW.....	5R01 EY00207-17	27,064
HOLLAND, MONTE G.....	PHYSIOLOGY AND PHARMACOLOGY OF AQUEOUS HUMOR FLOW.....	5R01 EY00207-18	28,440
HYMAN, ALBERT L.....	CARDIOVASCULAR SURGICAL RESEARCH.....	2R01 HL11802-08	133,832
IGNARRO, LOUIS J.....	CONTROL OF ENZYME RELEASE FROM HUMAN NEUTROPHILS.....	5R01 AM17692-03	25,016
JOHNSON, MARY K.....	ROLE OF MICROBIAL CYTOLYSINS IN OCULAR INFECTIONS.....	5R01 EY00424-08	48,419
KADOWITZ, PHILIP J.....	HUMORAL CONTROL OF PULMONARY AND SYSTEMIC CIRCULATION.....	2R01 HL15580-04	60,898
KADOWITZ, PHILIP J.....	REGULATION OF INTRAPULMONARY AIRWAYS AND VESSELS.....	5R01 HL18070-02	27,948
KASTIN, ABBA J.....	CONTROL OF MSH RELEASE AND ROLE OF MIF.....	5R01 NS07664-09	44,421
KREISMAN, NORMAN R.....	OXYGEN METABOLISM IN SINGLE EPILEPTIC NEURONS.....	5R01 NS12419-02	49,501
KREMENTZ, EDWARD T.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA12284-05S1	33,205
KREMENTZ, EDWARD T.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA18007-02	58,794
LITTLE, MAURICE D.....	HOOKWORM BEHAVIOR IN MAMMALIAN HOSTS.....	1R01 AI13452-01	32,107

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>LOUISIANA—Continued</b>			
LIU, YOUNG KING .....	THE TRAUMATOLOGY OF THE HEAD AND SPINE .....	3R01 GM19107-03S1	17,355
LIU, YOUNG KING .....	THE TRAUMATOLOGY OF THE HEAD AND SPINE .....	2R01 GM19107-04	78,186
LIU, YOUNG KING .....	ACCELERATION INJURIES TO THE SPINAL CORD AND BRAINSTEM .....	5R01 NS10517-03	57,066
LUMSDEN, RICHARD D. ....	CYTOLOGY OF HELMINTH PARASITE-HOST RELATIONSHIPS .....	5R01 AI08673-08	37,874
MALEK, EMILE A. ....	MALACOLOGICAL STUDIES IN LOUISIANA AND TEXAS .....	5R22 AI11645-03	14,549
MC DONALD, JOHN C. ....	THE HETEROPHILE SYSTEM IN HUMAN RENAL TRANSPLANTATION .....	2R01 AM16572-04	70,948
MIZELL, MERLE .....	PATHOLOGY OF TUMORIGENESIS IN DEVELOPING EMBRYOS .....	5R01 CA11901-06	46,027
SALVAGGIO, JOHN E. ....	ALLERGIC DISEASE CENTER .....	7P50 AI13401-01	103,564
SALVAGGIO, JOHN E. ....	ALLERGIC DISEASE CENTER .....	5P50 AI13401-02	152,652
SCHALLY, ANDREW V. ....	NEUROCHEMISTRY OF THE DIENCEPHALON .....	5R01 AM07467-13	123,772
STUCKEY, WALTER J. ....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY .....	5R10 CA03389-18	70,025
TORNYES, KARL .....	SOUTHEASTERN CANCER STUDY GROUP .....	5R10 CA13249-05	32,612
TOU, JEN-SIE H. ....	PHOSPHOLIPIDS AND PHAGOCYTOSIS BY LEUKEMIC LEUKOCYTES .....	5R01 CA16483-02	19,853
VOLPE, E PETER .....	GENETIC ASPECTS OF TISSUE TRANSPLANTATION .....	5R01 AI12667-13	34,346
WEILL, HANS .....	OCCUPATIONAL ENVIRONMENTAL PULMONARY DISEASE CENTER .....	5P50 HL15092-05	149,708
WEINSTEIN, ALLAN M. ....	A PROSPECTIVE ORTHOPEDIC IMPLANT RECOVERY ANALYSIS .....	7R01 AM19247-01	40,687
WEINSTEIN, ALLAN M. ....	A PROSPECTIVE ORTHOPEDIC IMPLANT RECOVERY ANALYSIS .....	5R01 AM19247-02	43,511
WEINSTEIN, ALLAN M. ....	D. C. STIMULATION OF BONE INGROWTH INTO POROUS A1203 .....	7R23 DE04449-01	5,626
WEINSTEIN, ALLAN M. ....	D. C. STIMULATION OF BONE INGROWTH INTO POROUS A1203 .....	5R23 DE04449-02	10,620
WEINSTEIN, ALLAN M. ....	FINITE ELEMENT ANALYSIS OF PROSTHETIC TOOTH IMPLANTS .....	7R01 DE04450-01	30,074
WEINSTEIN, ALLAN M. ....	FINITE ELEMENT ANALYSIS OF PROSTHETIC TOOTH IMPLANTS .....	5R01 DE04450-02	32,789
WOODY, NORMAN C. ....	LYSINE METABOLISM IN INFANTS AND CHILDREN .....	5R01 HD02920-10	42,178
ORGANIZATION TOTAL	68	4,218,772	
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 70118</b>			
URNER, CHRISTFRIED J. ....	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION .....	5R01 HL10713-10	39,295
ORGANIZATION TOTAL	1	39,295	
<b>XAVIER UNIVERSITY ZIP CODE 70125</b>			
CORRINGTON, JOYCE H. ....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	5S06 RR08008-05	146,436
ORGANIZATION TOTAL	1	146,436	
<b>RUSTON</b>			
<b>LOUISIANA TECHNOLOGICAL UNIVERSITY ZIP CODE 71270</b>			
CRUMP, KENNY S. ....	TRANSIENT ANALYSIS OF COUNTER CURRENT MULTIPLIERS .....	5R01 AM16845-03	28,829
CRUMP, KENNY S. ....	DYNAMICS OF CHEMOSTAT CULTURES .....	5R01 GM21214-02	20,822
ORGANIZATION TOTAL	2	49,651	
<b>SHREVEPORT</b>			
<b>LOUISIANA STATE UNIVERSITY SYSTEM-LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT SHREVEPORT ZIP CODE 71101</b>			
BROWN, RICHARD D. ....	'LOOP' DIURETICS, COCHLEAR POTENTIALS AND ENDOLYMPH. ....	5R01 GM22097-02	19,346
HILMAN, BETTINA C. ....	VIRAL AND IMMUNOLOGIC EVALUATION OF WHEEZING INFANTS .....	5R01 HD09336-02	3,706
ORGANIZATION TOTAL	2	23,052	
STATE TOTAL	162	12,590,545	
<b>MAINE</b>			
<b>AUGUSTA</b>			
<b>MAINE DEPARTMENT OF MARINE RESOURCES ZIP CODE 04330</b>			
SHERBURNE, STUART W. ....	PISCINE ERYTHROCYTIC NECROSIS IN THE ATLANTIC COD .....	1R01 HL19163-01	29,890
ORGANIZATION TOTAL	1	29,890	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MAINE—Continued</b>			
<b>BAR HARBOR</b>			
<b>JACKSON LABORATORY</b>	<b>ZIP CODE 04609</b>		
BAILEY, DONALD W.	NON-H-2 HISTOCOMPATIBILITY ANTIGENS.	1R01 AI13130-01	202,924
BAILEY, DONALD W.	GENETIC STABILITY OF MOUSE ZYGOTES IN FROZEN STORAGE.	1R01 GM22878-01	74,280
BERNSTEIN, SELDON E.	ANALYSES AND THERAPY OF NEONATAL BLOOD DISORDERS.	2R01 HD00254-16	44,650
CHAI, CHEN K.	HISTOCOMPATIBILITY STUDIES IN INBRED RABBITS.	2R01 AI09888-06	21,525
CHAI, CHEN K.	HISTOCOMPATIBILITY STUDIES IN INBRED RABBITS.	5R01 AI09888-07	21,591
CHAI, CHEN K.	LYMPHOPOIESIS, RETICULUM CELL HYPERPLASIA, AND GENES.	5R01 CA14036-04	54,019
CHAI, CHEN K.	LYMPHOPOIESIS, RETICULUM CELL HYPERPLASIA, AND GENES.	5R01 CA14036-05	56,043
CHEN, HARRY W.	CHOLESTEROL-MEMBRANE FUNCTION/CELL GROWTH/MALIGNANCY.	1R01 GM22900-01	59,634
COLEMAN, DOUGLAS L.	HEREDITARY DIABETES IN THE MOUSE.	5R01 AM14461-07	61,608
COLEMAN, DOUGLAS L.	BIOCHEMISTRY OF PIGMENTATION AND INHERITED DISORDERS.	5R01 CA05873-15	45,752
COLEMAN, DOUGLAS L.	RABBIT INBRED AND MUTANT STOCKS RESOURCE.	5P40 RR00251-11	56,171
EICHER, EVA M.	INHERITED GROWTH DISORDERS OF ENDOCRINE SYSTEMS.	5R01 AM17947-02	84,263
EICHER, EVA M.	INHERITED GROWTH DISORDERS OF ENDOCRINE SYSTEMS.	5R01 AM17947-03	91,443
EICHER, EVA M.	CYTOGENETICS OF THE MOUSE.	5R01 GM20919-03	41,714
ELEFTHERIOU, BASIL E.	ENVIRONMENT, GENETICS, AND PHEROMONAL OVULATION.	5R01 HD05860-05	39,687
EPPIG, JOHN J.	DEVELOPMENTAL EFFECTS OF MUTANT GENES.	5R01 HD05944-05	30,025
FOX, RICHARD R.	HEREDITARY DISEASES.	5R01 EV01408-03	37,876
HARRISON, DAVID E.	DECLINE OF IMMUNE RESPONSE WITH AGE.	5R01 AI11757-02	31,091
HARRISON, DAVID E.	DECLINE OF IMMUNE RESPONSE WITH AGE.	5R01 AI11757-03	24,937
HARRISON, DAVID E.	STUDY OF BONE-MARROW ALLOGRAFTS IN ANEMIC MICE.	5R01 HL16119-03	47,694
KANDUTSCH, ANDREW A.	STEROID METABOLISM IN TUMORS AND NORMAL TISSUES.	3R01 CA02758-20S1	46,160
KANDUTSCH, ANDREW A.	STEROID METABOLISM IN TUMORS AND NORMAL TISSUES.	5R01 CA02758-21	150,292
KOZAK, LESLIE P.	REGULATION OF ENZYME LEVELS IN BRAIN.	5R01 HD06712-05	52,624
KOZAK, LESLIE P.	BIOCHEMICAL GENETICS OF OVARIAN AND TESTICULAR TERATOMAS.	5R01 HD08431-03	33,482
LEITER, EDWARD H.	GENETIC CONTROL OF HYPERPLASIA IN THE ENDOCRINE PANCREAS.	5R01 AM17631-03	68,894
MEIER, HANS.	PATHOGENESIS OF HEREDITARY NEUROLOGICAL DISORDERS.	5R01 NS06448-10	36,340
MURPHY, EDWIN D.	STAGES OF CARCINOGENESIS OF THE CERVIX UTERI IN MICE.	5R01 CA05985-15	86,599
PREHN, RICHMOND T.	MECHANISMS OF CARCINOGENESIS.	7R01 CA20920-01	334,594
PREHN, RICHMOND T.	NEUROLOGICAL MUTANTS.	2R01 NS09378-06	58,111
PREHN, RICHMOND T.	NEUROLOGICAL MUTANTS.	5R01 NS09378-07	53,880
PREHN, RICHMOND T.	BIOMEDICAL RESEARCH SUPPORT GRANT.	5S07 RR05545-14	115,293
RODERICK, THOMAS H.	STUDY OF MAMMALIAN CHROMOSOMAL INVERSIONS.	5R01 GM19656-04	38,333
RODERICK, THOMAS H.	STUDY OF MAMMALIAN CHROMOSOMAL INVERSIONS.	5R01 GM19656-05	49,401
RUSSELL, ELIZABETH S.	ANALYSIS OF GENETIC EFFECTS ON AGING.	9P01 AG00250-06	207,850
RUSSELL, ELIZABETH S.	PHYSIOLOGICAL GENETICS OF THE MOUSE.	2R01 CA01074-26	121,900
RUSSELL, ELIZABETH S.	PHYSIOLOGICAL GENETICS OF THE MOUSE.	5R01 CA01074-27	134,234
SPROTT, RICHARD L.	GENETIC ANALYSIS OF AVOIDANCE BEHAVIOR IN MICE.	5R01 GM21266-02	21,583
SPROTT, RICHARD L.	NEUROCHEMICAL CORRELATES OF AVOIDANCE BEHAVIOR.	5R01 GM21469-02	38,603
STEVENS, LEROY C.	INVESTIGATIONS ON TERATOCARCINOGENESIS.	5R01 CA02662-21	101,604
STEVENS, LEROY C.	INVESTIGATIONS ON TERATOCARCINOGENESIS.	2R01 CA02662-22	131,513
TAYLOR, BENJAMIN A.	GENETIC ANALYSIS OF COMPLEX INFIRMITIES.	5R01 GM18684-05	27,699
WAYMOUTH, CHARITY.	CONTROL OF CELL GROWTH, DIFFERENTIATION, AND FUNCTION.	2R01 CA11339-06	81,227
WAYMOUTH, CHARITY.	CONTROL OF CELL GROWTH, DIFFERENTIATION, AND FUNCTION.	5R01 CA11339-07	87,302
WAYMOUTH, CHARITY.	HORMONE AND CARCINOGEN EFFECTS ON PROSTATE IN VITRO.	1R26 CA20226-01	26,464
WHITTEN, WESLEY K.	MAMMALIAN EGGS AND PHEROMONES.	5R01 HD04083-08	111,785
ORGANIZATION TOTAL	45	3,342,694	
<b>BRUNSWICK</b>			
<b>BOWDOIN COLLEGE</b>	<b>ZIP CODE 04011</b>		
HOWLAND, JOHN L.	DEFECTIVE ION MOVEMENT IN MUSCULAR DYSTROPHY.	5R01 NS11815-06	42,241
KERTZER, DAVID I.	SOCIAL CHANGE IN AN URBANIZING ITALIAN PARISH.	5R01 HD09557-02	10,962
ROSE, GUENTER H.	BEHAVIORAL PLASTICITY.	7R01 HD10946-01	27,009
ORGANIZATION TOTAL	3	80,212	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MAINE—Continued</b>			
<b>ORONO</b>			
<b>UNIVERSITY OF MAINE SYSTEM—UNIVERSITY OF MAINE AT ORONO      ZIP CODE 04473</b>			
BLAKE, RICHARD D.....	ASPECTS OF EUKARYOTIC CHROMOSOME STRUCTURE .....	1R01 GM22827-01	24,058
COOK, JAMES R.....	DEVELOPMENTAL CONTROL MECHANISM .....	5R01 GM12179-11	25,883
GREEN, BRIAN.....	STEROIDS OF POTENTIAL ANTINEOPLASTIC ACTIVITY .....	2R01 CA11020-04	31,236
HOOVER, WILLIAM H.....	DEVELOPMENT OF A SMALL ANIMAL FACILITY .....	5P40 RR00893-02	14,460
MC DANIEL, IVAN N.....	STUDY OF OVIPOSITION ATTRACTANTS FOR AEDES TRISERIATUS.....	5R01 AI11740-03	35,969
NICHOLSON, BRUCE L.....	PISCINE ERYTHROCYTIC NECROSIS IN THE ATLANTIC COD.....	1R01 HL19164-01	12,498
ROBERTS, FRANKLIN L.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR07161-01	20,750
ROONEY, JAMES A.....	SONIC TECHNIQUES FOR DISPERSAL OF CELL AGGREGATES.....	2R01 GM20514-04	18,913
ROXBY, ROBERT.....	MEASUREMENT OF LIGAND BINDING TO ASSOCIATING ENZYMES.....	1R01 AM18852-01	48,446
ROXBY, ROBERT.....	MEASUREMENT OF LIGAND BINDING TO ASSOCIATING ENZYMES.....	5R01 AM18893-02	18,049
WOHLGEMUTH, ANDREW.....	INFORMATION FROM IMMUNOLOGICAL REACTION TABLES.....	1R01 CA20105-01	10,143
ORGANIZATION TOTAL	11      260,405		
<b>PORTLAND</b>			
<b>MAINE MEDICAL CENTER      ZIP CODE 04102</b>			
RAND, PETER W.....	RED CELL FACTORS IN OXYGEN DELIVERY.....	5R01 HL07984-14	62,068
ORGANIZATION TOTAL	1      62,068		
<b>UNIVERSITY OF MAINE SYSTEM—UNIVERSITY OF MAINE PORTLAND-GORHAM CAMPUS      ZIP CODE 04103</b>			
BONNER, R ALAN.....	INFANT CARDIORESPIRATORY REFLEXES-SIDS MODEL.....	3R01 HD09368-01S1	8,030
BONNER, R ALAN.....	INFANT CARDIORESPIRATORY REFLEXES-SIDS MODEL.....	5R01 HD09368-02	67,466
HODGKIN, BRIAN C.....	DIPOLE MOMENT MEASUREMENT OF CARDIAC MASS.....	1R01 HL19486-01	62,641
ORGANIZATION TOTAL	3      138,137		
<b>SALSBUURY COVE</b>			
<b>MOUNT DESERT ISLAND BIOLOGICAL LABORATORY      ZIP CODE 04672</b>			
KINTER, WILLIAM B.....	PHYSIOLOGY AND MORPHOLOGY OF CELL TRANSPORT.....	5R01 AM15973-05	83,014
KINTER, WILLIAM B.....	MEMBRANE TOXICITY THEORY AND ENVIRONMENTAL POLLUTANTS.....	2R01 ES00920-04	73,564
MYERS, JACK D.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05764-02	21,978
SCHMIDT-NIELSEN, BODIL M.....	BIOLOGY OF EXCRETORY AND OSMOREGULATORY MECHANISMS.....	5R01 AM15972-05	113,107
SCHMIDT-NIELSEN, BODIL M.....	BIOLOGY OF EXCRETORY AND OSMOREGULATORY MECHANISMS.....	5R01 AM15972-06	125,519
ORGANIZATION TOTAL	5      417,182		
STATE TOTAL	69      4,330,588		
<b>MARYLAND</b>			
<b>BALTIMORE</b>			
<b>BALTIMORE CITY HOSPITALS      ZIP CODE 21224</b>			
GARCIA-BUNUEL, RAFAEL.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05556-14	45,872
ORGANIZATION TOTAL	1      45,872		
<b>CARNEGIE INSTITUTION OF WASHINGTON, D. C.      ZIP CODE 21210</b>			
BROWN, DONALD D.....	THE SOMATIC AND OOCYTE 5S RNA GENES IN XENOPUS.....	1R01 GM22395-01	49,950
BROWN, DONALD D.....	THE SOMATIC AND OOCYTE 5S RNA GENES IN XENOPUS.....	5R01 GM22395-02	75,030
DAWID, IGOR B.....	MITOCHONDRIAL BIOGENESIS IN ANIMAL CELLS.....	1R01 GM22413-01	49,595
DAWID, IGOR B.....	MITOCHONDRIAL BIOGENESIS IN ANIMAL CELLS.....	5R01 GM22413-02	72,330
PAGANO, RICHARD E.....	PHOSPHOLIPID-CHOLESTEROL DYNAMICS IN MAMMALIAN CELLS.....	1R01 GM22942-01	65,010
REEDER, RONALD H.....	ISOLATION AND STUDY OF RIBOSOMAL GENE CHROMATIN.....	1R01 GM22499-01	62,030
REEDER, RONALD H.....	ISOLATION AND STUDY OF RIBOSOMAL GENE CHROMATIN.....	5R01 GM22499-02	72,930
ORGANIZATION TOTAL	7      446,875		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
<b>COPPIN STATE COLLEGE      ZIP CODE 21216</b>			
OGONJI, GILBERT O.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08010-05	66,149
ORGANIZATION TOTAL	1      66,149		
<b>JOHN F. KENNEDY INSTITUTE      ZIP CODE 21205</b>			
KISHIMOTO, YASUO.....	METABOLISM OF 3-KETO DERIVATIVES OF SPHINGOLIPIDS.....	7R01 NS13559-01	44,570
KISHIMOTO, YASUO.....	BRAIN 2-HYDROXY FATTY ACID METABOLISM AND MYELINATION.....	7R01 NS13569-01	59,559
MOSER, HUGO W.....	BRAIN LIPIDS IN DIFFUSE DEMYELINATIVE DISEASES.....	7R01 NS13513-01	59,670
ORGANIZATION TOTAL	3      163,799		
<b>JOHNS HOPKINS UNIVERSITY      ZIP CODE 21218</b>			
ADKINSON, N FRANKLIN, JR.....	STUDY OF ALLERGIC REACTIONS TO DRUGS.....	5R01 AI11936-03	23,650
ADKINSON, N FRANKLIN, JR.....	ASPIRIN INTOLERANCE IN REVERSIBLE LUNG DISEASE.....	1R01 HL20302-01	40,774
ANDERSON, DAVID E.....	VASCULAR EFFECTS OF INHIBITORY BEHAVIORAL ADAPTATIONS.....	5R01 HL17970-02	70,131
ANDERSON, NORMAN D.....	LEUKOCYTE-ENDOTHELIAL INTERACTIONS.....	5R01 HL17596-02	49,599
AUGUST, J THOMAS.....	GENETIC EXPRESSION OF CELLULAR ONCONAVIRUSES.....	1R01 CA19471-01	141,069
BAKER, FRANK H.....	THALAMIC MECHANISMS IN VISUAL PROCESSING.....	1R01 EY01494-01A1	36,392
BANG, FREDERIK B.....	SUPPORT FOR INTERNATIONAL CENTER FOR MEDICAL RESEARCH.....	5R07 AI10048-16	465,768
BANG, FREDERIK B.....	UPPER RESPIRATORY ANTIVIRAL DEFENSE IN MALNUTRITION.....	5R01 AI12458-02	71,818
BAYLIN, STEPHEN B.....	HISTAMINASE AND AMINES IN NEUTRAL CREST TUMORS.....	5R01 CA18404-02	55,105
BEER, MICHAEL.....	ELECTRON MICROSCOPIC STUDIES OF NUCLEIC ACID STRUCTURES.....	5R01 GM08968-15	134,387
BENBOW, ROBERT M.....	CONTROL OF DNA SYNTHESIS IN EARLY EMBRYOS OF XENOPUS.....	1R01 GM22610-01	64,245
BERGER, HILLARD.....	REPLICATION AND RECOMBINATION IN BACTERIAL VIRUSES.....	5R01 AO8161-08	26,640
BESSMAN, MAURICE J.....	ENZYMATIC SYNTHESIS OF PRECURSORS OF DNA.....	5R01 GM18649-18	72,346
BLAKE, DAVID A.....	CHEMOTERATOGENESIS: POTENTIAL ROLE OF ARENE OXIDES.....	1R01 HD09917-01	113,441
BLAKE, DAVID A.....	CHEMOTERATOGENESIS: POTENTIAL ROLE OF ARENE OXIDES.....	5R01 HD09917-02	119,142
BLASS, ELLIOTT M.....	THE ONTOGENY OF INGESTIVE BEHAVIOR.....	5R01 AM18560-02	22,847
BODIAN, DAVID.....	STRUCTURE AND SYNAPTIC RELATIONS OF ORGAN OF CORTI.....	5R01 NS12641-02	65,302
BOYER, SAMUEL H.....	STUDY OF HUMAN GENETICS.....	5P50 GM19489-05	496,424
BOYER, SAMUEL H.....	QUANTITATIVE GENETIC CONTROL OF PROTEIN SYNTHESIS.....	5R01 HL15026-10	158,193
BRAND, LUDWIG.....	FLUORESCENCE IN STUDIES OF ENZYME MECHANISMS.....	5R01 GM11632-13	63,774
BRAND, LUDWIG.....	FLUORESCENCE IN STUDIES OF ENZYME MECHANISMS.....	5R01 GM11632-14	76,454
BRUSLOW, SAUL W.....	STUDIES ON COCHLEAR FLUIDS.....	5R01 NS11274-02	76,853
BUEIDING, ERNEST.....	SUPPORT FOR SCHISTOSOMIASIS RESEARCH CENTER.....	5R22 AO8022-09	128,378
BUEIDING, ERNEST.....	CARCINOGENICITY OF NITROHETEROCYCLES.....	1R01 CA18251-01	59,814
CALKINS, JOSEPH L.....	HOLOGRAPHIC STRESS-TESTING OF THE SURGICAL CORNEA.....	3R01 EY01312-01S2	17,417
CALKINS, JOSEPH L.....	HOLOGRAPHIC STRESS-TESTING OF THE SURGICAL CORNEA.....	2R01 EY01312-02	82,472
CARLSON, FRANCIS D.....	STRUCTURAL BASIS OF CELLULAR FUNCTION.....	5R01 AM12803-18	49,064
CARLSON, FRANCIS D.....	A STUDY OF MUSCULAR CONTRACTION.....	5R01 AM16315-21	36,446
CARVER, DAVID H.....	TISSUE CULTURE STUDIES OF HEPATITIS VIRUSES.....	5R01 AI11850-06	104,419
CEBRA, JOHN J.....	PRODUCT ANALYSIS TO ASSESS LYMPHOID CELL POTENTIAL.....	5R01 AO9652-07	111,652
CHARACHE, SAMUEL.....	STUDY OF ABNORMAL HEMOGLOBINS.....	5R01 HL02799-19	137,530
CHARACHE, SAMUEL.....	STUDY OF ABNORMAL HEMOGLOBINS.....	5R01 HL02799-20	143,650
CHEN, CHUNG-HO.....	BIOCHEMICAL STUDIES OF PROLIFERATIVE RETINOPATHIES.....	5R01 EY01399-02	101,415
CHILDS, BARTON.....	STUDIES IN HUMAN GENETICS.....	5R01 HD00486-21	135,508
COFFEY, DONALD S.....	PROGRAMMATICAL STUDIES ON BENIGN PROSTATIC HYPERPLASIA.....	1P01 AM19300-01	393,385
COFFEY, DONALD S.....	PROSTATIC GROWTH REGULATION BY ANDROGENS & ANTIANDROGENS.....	2R01 CA13745-04	63,456
COFFEY, DONALD S.....	PROSTATIC GROWTH REGULATION BY ANDROGENS & ANTIANDROGENS.....	5R01 CA13745-05	69,784
COFFEY, DONALD S.....	CHEMOTHERAPEUTIC AGENTS AND PROSTATIC DNA SYNTHESIS.....	2R26 CA15416-03	123,464
COFFEY, DONALD S.....	CELL MEMBRANE ANTIGEN SPECIFICITY IN PROSTATIC CANCER.....	5R26 CA15442-03	65,412
COHEN, ALAN M.....	REGULATION OF SYMPATHETIC NEUROBLAST DIFFERENTIATION.....	5R01 HD07389-03	41,566
COLE, GERALD A.....	IMMUNOSUPPRESSION AND EXPERIMENTAL VIRAL INFECTION.....	5R01 NS11286-06	88,736
COLVIN, MICHAEL O.....	PHARMACOLOGY OF CYCLOPHOSPHAMIDE AND NITROSOUREAS.....	5R01 CA16783-02	76,880
COLVIN, MICHAEL O.....	PHARMACOLOGY OF CYCLOPHOSPHAMIDE AND NITROSOUREAS.....	5R01 CA16783-03	83,135
COMSTOCK, GEORGE W.....	HEART DISEASE AND DRINKING WATER AT HOME.....	1R01 HL19073-01	40,932
CONE, RICHARD A.....	VISUAL EXCITATION ROLE OF VISUAL PIGMENT.....	5R01 EY00520-07	46,755
CONE, RICHARD A.....	VISUAL EXCITATION ROLE OF VISUAL PIGMENT.....	5R01 EY00520-08	51,817
DANNENBERG, ARTHUR M, JR.....	ENZYMES AND THE PATHOGENESIS OF TUBERCULOSIS.....	5R22 AO8876-05	127,335
DAVIS, JOHN C.....	FSH ACTIONS ON MAMMALIAN TESTIS CELLS IN CULTURE.....	1R01 HD09586-01	57,165

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
DE VOE, ROBERT D.	ANALYSIS OF FLICKER RETINAL ACTION POTENTIALS	3R01 EY00008-13S2	10,698
DE VOE, ROBERT D.	ANALYSIS OF FLICKER RETINAL ACTION POTENTIALS	2R01 EY00008-14	79,672
DRACHMAN, DANIEL B.	NERVE-MUSCLE INTERACTIONS IN DEVELOPMENT	2R01 HD04817-07	83,621
EDIDIN, MICHAEL A.	CHEMISTRY AND DEVELOPMENT OF TRANSPLANTATION ANTIGENS	5R01 AM11202-10	61,555
ENGLUND, PAUL T.	STRUCTURE AND MECHANISM OF ACTION OF DNA POLYMERASE	5R01 CA13602-08	90,778
EWING, LARRY L.	REGULATION OF ANDROGEN SECRETION IN MAMMALIAN TESTES	5R01 HD07204-05	94,412
FARRELL, RICHARD A.	LIGHT SCATTERING STUDIES OF OCULAR TISSUES	2R01 EY01019-04	85,395
FENSELAU, ALLAN H.	CONTROL OF TUMOR-INDUCED VASCULARIZATION	5R01 CA15381-02	36,238
FENSELAU, ALLAN H.	KETONE BODY UTILIZATION BY MALIGNANT HEPATOMAS	5R01 CA18053-02	40,062
FENSELAU, CATHERINE C.	NEW APPLICATIONS OF MASS SPECTROMETRY IN PHARMACOLOGY	5R01 GM21248-02	69,875
FINE, STUART I.	CLINICOGENETIC STUDIES OF BEST'S MACULAR DYSTROPHY	5R01 EY00976-04	49,490
FINE, STUART I.	CLINICOGENETIC STUDIES OF BEST'S MACULAR DYSTROPHY	5R01 EY00976-05	55,330
FINKELSTEIN, DANIEL	EXPERIMENTAL RETINAL NEOVASCULARIZATION	5R01 EY01368-03	61,905
FINKELSTEIN, DANIEL	BRANCH VEIN OCCLUSION: NATURAL HISTORY AND TREATMENT	1R01 EY01780-01	51,800
FINKELSTEIN, DANIEL	PATHOGENESIS OF PRIMARY RETINITIS PIGMENTOSA	1R01 EY01791-01	72,568
FISCHMAN, HARVEY R.	RABIES-PATHOGENESIS, INTERFERENCE, ABORTIVE INFECTION	5R22 AI12017-02	45,321
FORTUIN, NICHOLAS J.	ECHO CHANGES IN WALL MOTION WITH MYOCARDIAL ISCHEMIA	1R01 HL19232-01	98,991
FREED, JOHN H.	STRUCTURAL STUDIES OF THE PRODUCTS OF THE H-2 COMPLEX	1R01 CA20820-01	72,432
GAFFNEY, BETTY G.	SPIN-LABELING RECEPTORS ON NORMAL AND MALIGNANT CELLS	5R01 CA15997-03	31,282
GANN, DONALD S.	HEMODYNAMIC CONTROL OF PITUITARY ADRENAL FUNCTION	5R01 AM14952-06	116,043
GANN, DONALD S.	HEMODYNAMIC CONTROL OF PITUITARY ADRENAL FUNCTION	5R01 AM14952-07	126,531
GILLESPIE, ELIZABETH	ROLE OF MICROTUBULES IN HYPERSENSITIVITY REACTIONS	5R01 AI11919-03	32,683
GORDIS, LEON	EPIDEMIOLOGY OF CONGENITAL DIGESTIVE DEFECTS: MEGACOLON	1R01 AM18407-01	64,914
GOTT, VINCENT L.	PROTECTION OF THE MYOCARDIUM DURING CARDIAC SURGERY	1R01 HL19414-01	175,042
GRAHAM, GEORGE G.	ROLE OF STAPLE FOODS IN INFANT NUTRITION	1R01 HD10111-01	108,470
GRAVES, IRVING L.	INFLUENZA IN ANIMALS AND MAN IN INDIA AND NEPAL	5R01 AI12445-02	39,124
GREEN, WILLIAM R.	OCULAR CLINICO-PATHOLOGIC CORRELATION	1R01 EY01684-01	90,050
GREENE, HARRY L.	ISCHEMIA-INDUCED CARDIAC ELECTRICAL INSTABILITY	5R01 HL18799-02	87,324
GREENOUGH, WILLIAM B., III	CELLULAR RESPONSES TO CHOLERA TOXIN	5R22 AI08209-09	51,722
GROSSMAN, LAWRENCE	ENZYMATIC EXCISION - REPAIR MECHANISM STUDIES	7R01 GM22846-01	127,529
GROSSMAN, LAWRENCE	ENZYMATIC EXCISION - REPAIR MECHANISM STUDIES	5R01 GM22846-02	81,243
HANNAWAY, CAROLINE C.	MEDICAL CARE AND THE STATE IN 18TH CENTURY FRANCE	5R01 LM02497-02	18,599
HARDY, PAUL H.	IMMUNOLOGY AND IMMUNOPATHOLOGY OF SYPHILIS	2R01 AI02336-17A2	67,059
HARRINGTON, WILLIAM F.	BIOPHYSICAL CHEMICAL STUDIES ON MUSCLE PROTEINS	5R01 AM04349-16	176,319
HARRINGTON, WILLIAM F.	BIOPHYSICAL CHEMICAL STUDIES ON MUSCLE PROTEINS	5R01 AM04349-17	181,644
HARRIS, ALAN H.	CIRCULATORY EFFECTS OF OPERANT CARDIOVASCULAR CONTROL	5R01 HL17958-02	83,565
HARTMAN, PHILIP E.	GENETIC MECHANISMS AND GENE ACTION	5R01 AI01650-19	106,437
HARTMAN, PHILIP E.	REPLICATION AND RECOMBINATION IN BACTERIAL VIRUSES	5R01 AI08161-09	17,741
HEINZ, JOHN M.	MECHANISMS OF SPEECH PRODUCTION	5R01 NS08041-08	48,715
HENDRIX, THOMAS R.	PATHOGENESIS OF FLUID AND ELECTROLYTE LOSS IN CHOLERA	5R22 AI08187-09	61,035
HENNEY, CHRISTOPHER S.	IN VITRO STUDIES OF CELL-MEDIATED IMMUNITY	5R01 AI10280-06	80,420
HEPTINSTALL, ROBERT H.	RENAL CIRCULATION AND EXPERIMENTAL HYPERTENSION	5R01 HL07835-15	112,014
HEPTINSTALL, ROBERT H.	GENESIS OF ATHEROSCLEROTIC LESIONS	1R01 HL18473-01	37,222
HEPTINSTALL, ROBERT H.	GENESIS OF ATHEROSCLEROTIC LESIONS	5R01 HL18473-02	36,355
HERNDON, ROBERT M.	THE FINE STRUCTURAL ALTERATIONS IN CNS VIRAL DISEASE	5R01 NS08997-07	32,848
HILLIS, WILLIAM D.	VIRAL ETIOLOGY OF HUMAN RENAL DISEASE	5R01 AI11430-03	32,078
HOLLIS, DONALD P.	NMR STUDY OF ENZYME-SUBSTRATE INTERACTIONS	5R01 GM17172-07	51,178
HOLLIS, DONALD P.	NMR STUDY OF ENZYME-SUBSTRATE INTERACTIONS	5R01 GM17172-08	59,518
HOOPES, JOHN E.	METABOLIC STUDY OF SKIN FLAPS	1R01 AM18732-01	55,584
HSU, YU-CHIH	EMBRYONAL TUMORS	5R01 CA12336-06	76,284
HUANG, RU-CHIH C.	NUCLEOCYTOPLASMIC INTERACTIONS IN DEVELOPMENT AND AGING	8R01 AG00472-03	90,173
HUANG, RU-CHIH C.	CONTROL OF MYELOMA TUMOR GROWTH	2R01 CA13953-04	112,669
HUNT, RICHARD K.	DEVELOPMENT AND EXPRESSION OF NEURONAL LOCUS SPECIFICITY	5R01 NS12606-02	53,655
ISHIZAKA, KIMISHIGE	RELATION OF GAMMA GLOBULIN STRUCTURE TO HYPERSENSITIVITY	5R01 AI10060-06	96,635
ISHIZAKA, KIMISHIGE	RELATION OF GAMMA GLOBULIN STRUCTURE TO HYPERSENSITIVITY	5R01 AI10060-07	124,554
ISHIZAKA, KIMISHIGE	REGULATION OF REAGINIC ANTIBODY RESPONSE	5R01 AI11202-04	84,434
JOHNS, RICHARD J.	A NEUROSENSORY INTERDISCIPLINARY RESEARCH PROGRAM	5P01 NS07226-08	135,031
JOHNSON, JOHN W.	THE EFFECT OF ASPHYXIA ON FETAL LUNG FLUID	5R01 HD04050-06	25,981
JOHNSON, JOHN W.	MATERNAL ENDOCRINE FACTORS AND PREMATURE LABOR	5R01 HD09243-02	47,748
JOHNSON, PETER Y.	A ROUTE TO A NEW CLASS OF PENICILLIN-LIKE ANTIBIOTICS	5R01 AI10389-05	33,074

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
KANTNER, JOHN F.	PREADULT FERTILITY AND FAMILY FORMATION	5R01 HD05255-05	130,330
KAZAZIAN, HAIG H., JR.	THE GENETIC CONTROL OF HEMOGLOBIN SYNTHESIS	5R01 AM13983-07	82,335
KESSLER, IRVING I.	MALE ROLE IN CERVICAL CANCER	5R01 CA16605-02	263,975
KESSLER, IRVING I.	A PROSPECTIVE PILOT STUDY OF BLADDER PAPILLOMAS	1R26 CA18040-01A1	44,400
KESSLER, IRVING I.	A PROSPECTIVE STUDY OF LYMPHOID TISSUES IN NEOPLASIA	1R01 CA18121-01	50,780
KOREEDA, MASATO	CHEMICAL STUDIES ON INSECT MOLTING HORMONES	5R01 AI12150-02	34,513
KOREEDA, MASATO	CHEMICAL STUDIES OF CARCINOGENIC POLYCYCLIC EPOXIDES	1R01 CA18580-01	44,113
KOWARSKI, AVINOAM	PRODUCTION RATE AND CONCENTRATION OF HORMONES	5R01 HD06284-05	62,977
KWITEROVICH, PETER O.	CELL MEMBRANES AND PLASMA LIPOPROTEINS	5R01 HL17898-02	74,562
LAMBERG, STANFORD I.	MYCOSIS FUNGOIDES COOPERATIVE STUDY-PILOT PHASE	3R10 CA16020-02S2	64,003
LANE, M. DANIEL	CARBOXYLASE ACTIVATION AND CONTROL OF LIPID SYNTHESIS	5R01 AM14574-07	69,894
LANE, M. DANIEL	MECHANISMS OF ACTIONS OF REGULATORY ENZYMES	2R01 AM14575-07	89,695
LANE, M. DANIEL	MECHANISMS OF ACTIONS OF REGULATORY ENZYMES	5R01 AM14575-08	107,027
LANGHAM, MAURICE E.	ADRENERGIC PHYSIOLOGY OF THE EYE	5R01 EY01352-03	88,411
LARRABEE, MARTIN G.	METABOLISM AND FUNCTION IN SYMPATHETIC NEURONS	5R01 NS00702-22	57,573
LEE, YUAN C.	BIOCHEMISTRY OF COMPLEX CARBOHYDRATES	5R01 AM09970-11	112,362
LENNINGER, ALBERT L.	ENZYMATIC ACTIVITIES OF MITOCHONDRIA	5R01 GM05919-18	176,965
LENHARD, RAYMOND E., JR.	EASTERN COOPERATIVE ONCOLOGY GROUP - ONCOLOGY STUDIES	5R10 CA16116-03	53,424
LENHARD, RAYMOND E., JR.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA17970-02	59,606
LENNARZ, WILLIAM J.	LIPID CARRIERS IN MEMBRANE GLYCOPROTEIN SYNTHESIS	5R01 GM21451-02	58,657
LENNARZ, WILLIAM J.	PLASMA MEMBRANE CHANGES IN FERTILIZATION AND DEVELOPMENT	5R01 HD08357-02	44,030
LEVIN, JACK	BLOOD COAGULATION AND HEMORRHAGIC DISEASE	5R01 HL01601-28	136,644
LEVY, DAVID A.	STUDY OF ALLERGIC MECHANISMS WITH MASTOCYTOMA CELLS	5R01 AI11281-03	47,200
LICHTENSTEIN, LAWRENCE M.	IN VITRO STUDIES OF HUMAN ANAPHYLAXIS	5R01 AI07290-11	113,213
LICHTENSTEIN, LAWRENCE M.	AN IN VITRO APPROACH TO PROBLEMS OF CLINICAL ALLERGY	2R01 AI08270-09	131,641
LICHTENSTEIN, LAWRENCE M.	PHARMACOLOGIC CONTROL OF HYPERSENSITIVITY PHENOMENA	5R01 AI11334-04	84,766
LIETMAN, PAUL S.	ADVERSE EFFECTS OF ANTIBIOTIC-HOST CELL INTERACTIONS	1R01 GM23716-01	79,920
LILJENFELD, ABRAHAM M.	EPIDEMIOLOGY CENTER FOR STUDIES OF DIGESTIVE DISEASES	5P20 AM18021-02	169,223
LILJENFELD, ABRAHAM M.	STUDY OF EPIDEMIOLOGY OF CANCER	3P01 CA11489-06S1	4,566
LILJENFELD, ABRAHAM M.	STUDY OF EPIDEMIOLOGY OF CANCER	5P01 CA11489-07	655,870
LIN, SHIN	MOLECULAR BASIS OF ACTION OF CYTOCHALASIN B	5R01 GM22289-02	53,280
LITFIELD, JOHN W.	HYBRIDIZATION, DNA FUNCTION, MUTATION IN CELL CULTURE	5R01 CA16754-03	154,910
LOCKWOOD, DEAN H.	INSULIN ACTION IN NORMAL AND RESISTANT STATES	2R01 AM13562-07	38,587
LOVE, WARNER E.	X-RAY STRUCTURE ANALYSIS OF BIOLOGICAL MOLECULES	5R01 AM02528-17	76,664
LOVE, WARNER E.	X-RAY STRUCTURE ANALYSIS OF BIOLOGICAL MOLECULES	5R01 AM02528-18	83,748
LOVE, WARNER E.	X-RAY CRYSTAL STRUCTURE OF SICKLE CELL HEMOGLOBIN	2R01 AM16446-04	127,879
MARCUS, ROBERT L.	ANTIGEN-ANTIBODY COMPLEXES IN RHEUMATOID ARTHRITIS	5R01 AM15714-05	39,598
MARGOLIS, SIMEON	HORMONAL CONTROL OF LIPID AND LIPOPROTEIN SYNTHESIS	2R01 HL15930-04	89,834
MARGOLIS, SIMEON	LASER SPECTROSCOPY OF LIPOPROTEINS	1R01 HL19095-01	56,593
MARIN, OSCAR S.	SHORT-TERM MEMORY PROCESSES IN APHASIA	5R01 NS12160-02	45,991
MARSH, DAVID G.	IMMUNOCHEMICAL STUDIES OF IMMEDIATE HYPERSENSITIVITY	5R01 AI09565-07	67,868
MARSH, DAVID G.	GENETICS OF IMMUNE RESPONSE IN MAN	1P01 AI13370-01	188,724
MARZILLI, LUIGI G.	DNA AND RNA SEQUENCING BY CHELATE METAL COMPLEXES	5R01 GM20544-02	48,945
MATANOSKI, GENEVIEVE M.	POSSIBLE CANCER RISKS AMONG VETERINARIANS	5R01 CA16752-02	41,168
MATANOSKI, GENEVIEVE M.	BLADDER CANCER AFTER BENZIDINE EXPOSURE	5R01 CA16753-02	104,313
MATTOON, JAMES R.	GENETIC MODIFICATION OF MITOCHONDRIA	5R01 GM15884-11	61,884
MAUMENEE, A. EDWARD	EYE RESEARCH CORE SERVICES SUPPORT	1P30 EY01765-01	206,425
MAUMENEE, IRENE H.	GENETICS IN OPHTHALMOLOGY	1R01 EY01773-01	68,524
MAYER, MANFRED M.	CHEMICAL AND BIOLOGICAL STUDIES OF COMPLEMENT	5R01 AI02566-17	76,228
MAYER, MANFRED M.	MECHANISM OF CYTOLYSIS BY COMPLEMENT	2R01 AI02566-18	123,107
MAYER, MANFRED M.	PHYSICOCHEMICAL AND BIOLOGICAL STUDIES OF LYMPHOKINES	5R01 AI12472-02	33,451
MC HUGH, PAUL R.	HYPOTHALAMUS IN FEEDING BEHAVIOR	7R01 AM19302-01	24,606
MC HUGH, PAUL R.	HYPOTHALAMUS IN FEEDING BEHAVIOR	5R01 AM19302-02	42,248
MC KHANN, GUY M.	BIOCHEMICAL STUDIES OF MYELINIZATION	5R81 NS08719-08	42,550
MC KHANN, GUY M.	DEVELOPMENT AND REGENERATION IN THE NERVOUS SYSTEM	2P01 NS10920-04	738,033
MC KHANN, GUY M.	FEASIBILITY OF SORTING SPECIFIC CELL TYPES FROM BRAIN	1R01 NS12491-01A1	71,333
MC KUSICK, VICTOR A.	CATALOGS OF MENDELIAN TRAITS IN MAN	5R01 GM18676-05	32,480
MC KUSICK, VICTOR A.	CATALOGS OF MENDELIAN TRAITS IN MAN	5R01 GM18676-06	39,120
MIGEON, BARBARA R.	GENETIC STUDIES OF HUMAN SOMATIC CELLS	2R01 HD05465-06	152,279
MIGEON, CLAUDE J.	RELATION OF HORMONES TO GROWTH AND DEVELOPMENT	2R01 AM00180-25	109,252



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
MILMAN, GREGORY	ISOLATION OF ANIMAL CELLS CONTAINING SUPPRESSOR TRNAS	7R01 CA21650-01	23,551
MILNOR, WILLIAM R	DYNAMICS OF PULSATILE BLOOD FLOW	5R01 HL12607-08	66,368
MOLLIVER, MARK E	PARAMETERS OF ONTOGENESIS OF CORTICAL NEURONS	5R01 NS08153-06	38,823
MONEY, JOHN	LONGITUDINAL AND RELATED PSYCHOHORMONAL STUDIES	5R01 HD00325-20	126,544
MONJAN, ANDREW A	OCULAR DISEASE OF VIRAL ETIOLOGY	3R01 EY00938-03S1	4,183
MONJAN, ANDREW A	OCULAR DISEASE OF VIRAL ETIOLOGY	2R01 EY00938-04	44,984
MONJAN, ANDREW A	MENTAL RETARDATIONS OF VIRAL ETIOLOGY	5R01 HD08490-02	75,402
MONJAN, ANDREW A	LCM VIRUS CEREBELLAR DISEASE IN NEONATES	5R01 NS09779-05	100,668
MONJAN, ANDREW A	LCM VIRUS CEREBELLAR DISEASE IN NEONATES	5R01 NS09779-06	105,353
MOSLEY, WILEY H	POPULATION STUDIES	5P30 HD06268-04	249,002
MOUDRIANAKIS, EVANGELOS N	OXIDATIVE PHOSPHORYLATION AND MEMBRANE STRUCTURE	5R01 AI02443-18	52,370
MOUNTCASTLE, VERNON B	SENSORY AND MOTOR SYSTEMS, AND CEREBRAL CORTEX	3P01 NS06828-09S1	27,794
MOUNTCASTLE, VERNON B	SENSORY AND MOTOR SYSTEMS, AND CEREBRAL CORTEX	5P01 NS06828-10	496,641
MOXON, E RICHARD	THE STUDY OF HEMOPHILUS INFLUENZAE-INDUCED CNS INJURY	5R01 NS12554-02	44,869
MURPHY, PATRICK A	CHEMISTRY AND PHYSIOLOGY OF LEUKOCYTIC PYROGEN	5R01 AI03772-16	63,936
NAGER, GEORGE T	A HISTOPATHOLOGIC STUDY OF HUMAN TEMPORAL BONES	5R01 NS02182-17	96,841
NAGER, GEORGE T	SUPPORT FOR NATIONAL CENTER FOR TEMPORAL BONE BANKS	5R01 NS11447-03	36,465
NAGER, GEORGE T	SUPPORT FOR NATIONAL CENTER FOR TEMPORAL BONE BANKS	2R01 NS11447-04	67,165
NARAYAN, OPENDRA	PATHOGENESIS OF VISNA, A SLOW DEMYELINATING DISEASE	5R01 NS12127-02	91,705
NASON, ALVIN	ENZYMOLGY OF NITRATE RESPIRATION AND ASSIMILATION	5R01 GM21131-26	62,503
NATHANS, DANIEL	PROGRAM ON MOLECULAR BIOLOGY OF VIRAL TUMORIGENESIS	5P01 CA16519-02	631,654
NATHANSON, CONSTANCE A	ORGANIZATION AND PRACTICE OF ABORTION IN MARYLAND	5R01 HD09269-02	48,069
NATHANSON, NEAL	STUDY OF THE IMMUNOPATHOGENESIS OF VISNA	5R01 NS11451-03	122,605
NATHANSON, NEAL	STUDY OF THE IMMUNOPATHOGENESIS OF VISNA	5R01 NS11451-04	127,020
NEUBALL, HAROLD H	KININS AND THE HUMAN LUNG	1R01 HL18526-01A1	83,162
NICKON, ALEX	STERIC AND KINETIC FACTORS IN TERPENE CYCLIZATIONS	3R01 GM06304-16S1	27,600
NORMAN, PHILIP S	A STUDY OF ALLERGY TO RAGWEED POLLEN	5R01 AI04866-14	55,755
NORMAN, PHILIP S	CLINICAL CENTER FOR ALLERGIC DISEASES	2P50 AI01304-06	146,953
ODELL, GERARD B	MATURATION OF LIVER FOR THE METABOLISM OF BILIRUBIN	5R01 HD02268-11	4,327
OWELLEN, RICHARD J	PHARMACOLOGY OF THE VINCA ALKALOIDS	5R01 CA16157-02	53,274
OWENS, ALBERT H, JR	REGIONAL ONCOLOGY RESEARCH CENTER	3P30 CA06973-13S2	12,482
OWENS, ALBERT H, JR	ONCOLOGY CENTER SUPPORT GRANT	2P30 CA06973-14	1,716,427
PATZ, ARNALL	STUDY OF DIABETIC RETINOPATHY	5R01 EY00250-13	60,166
PATZ, ARNALL	STUDIES OF RETINAL ISCHEMIA	5R01 EY01008-04	92,124
PATZ, ARNALL	STUDIES OF RETINAL ISCHEMIA	5R01 EY01008-05	110,762
PATZ, ARNALL	ROLE OF SYSTEMIC HYPERTENSION OF DIABETES RETINOPATHY	1R01 HL20455-01	104,264
PEDERSEN, PETER L	CONTROL OF ENZYMIC PHOSPHATE TRANSFER IN MITOCHONDRIA	5R01 CA10951-08	60,158
PEDERSEN, PETER L	CONTROL OF ENZYMIC PHOSPHATE TRANSFER IN MITOCHONDRIA	5R01 CA10951-09	63,829
PERMUTT, SOLBERT	CARDIOVASCULAR, PULMONARY, AND BEHAVIORAL STUDIES	5P01 HL10342-11	529,252
PERMUTT, SOLBERT	SUPPORT FOR PULMONARY DISEASE CENTER	3P50 HL14153-05S2	242,750
PIERCE, NATHANIEL F	STUDIES OF IMMUNIZATION AGAINST ENTERIC INFECTION	2R22 AI07625-10	81,748
PIGIET, VINCENT P, JR	STRUCTURAL BASIS FOR REGULATION OF RIBOTIDE REDUCTASE	2R01 GM20122-04	38,905
PITHA, PAULA M	HUMAN INTERFERON - INDUCTION BY POLYNUCLEOTIDES	5R01 AI10944-05	27,642
PITHA, PAULA M	ANTITUMOR EFFECT OF INTERFERON	1R01 CA19061-01	40,950
PITT, BERTRAM	STUDY OF ISCHEMIC HEART DISEASE	5P50 HL17655-02	1,182,392
PLAUT, MARSHALL	HISTAMINE IN MODULATION OF CELL-MEDIATED IMMUNITY	5R01 AI12810-02	43,984
PLAUT, MARSHALL	CELLULAR IMMUNITY AND PULMONARY HYPERSENSITIVITY DISEASE	1R01 HL18514-01	32,560
PLAUT, MARSHALL	CELLULAR IMMUNITY AND PULMONARY HYPERSENSITIVITY DISEASE	5R01 HL18514-02	36,240
POLJAK, ROBERTO J	STRUCTURE OF IMMUNOGLOBULINS	5R01 AI08202-09	173,333
POLLACK, IRVIN P	EXPERIMENTAL AND CLINICAL STUDIES OF LASERS IN GLAUCOMA	1R01 EY01554-01	127,066
POSNER, GARY H	TOTAL SYNTHESIS OF A POTENTIAL ANTITUMOR LACTONE	5R01 CA12658-05	36,503
POSNER, GARY H	TOTAL SYNTHESIS OF CROTEPOXIDE, AN ANTITUMOR COMPOUND	5R01 CA16068-03	32,338
POZEFISKY, THOMAS	AMINO ACID METABOLISM IN HUMAN FOREARM TISSUES	5R01 AM14754-05	67,715
PRENDERGAST, ROBERT A	CELLULAR SPECIFICITY IN DELAYED HYPERSENSITIVITY	5R01 AI06927-11	38,850
PRENDERGAST, ROBERT A	PATHOGENESIS OF UVEITIS	5R01 EY00279-13	61,746
PRENDERGAST, ROBERT A	STUDY OF MAMMALIAN LYMPHOGENESIS AND IMMUNOGENESIS	5R01 HD07935-03	60,088
PRICE, DONALD L	EFFECT OF TOXINS ON NERVE CELLS AND AXONS	2R01 NS10580-02	45,662
PROUT, THADDEUS E	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	5R01 AM04403-16	10,560
REID, PHILIP R	CARDIAC EFFECT RELATED TO PLASMA NITRATE	1R01 HL18512-01	59,525
REID, PHILIP R	CARDIAC EFFECT RELATED TO PLASMA NITRATE	5R01 HL18512-02	58,762



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
ROBINSON, CECIL H.	SELECTIVE INHIBITORS OF STEROID-TRANSFORMING ENZYMES	2R01 AM15918-04	67,761
ROBINSON, CECIL H.	STEROIDS WITH CYTOTOXIC EFFECTS ON THE PROSTATE	5R26 CA16418-03	75,530
ROBINSON, DAVID A.	STUDY OF OCULOMOTOR CONTROL SYSTEM	5R01 EY00598-08	82,064
ROBINSON, ROBERT A.	STUDIES ON STIMULATION OF BONE FORMATION	5R01 AM04993-15	24,359
ROBINSON, ROBERT A.	A STUDY OF SKELETAL TISSUE REPAIR	5R01 AM18184-02	117,092
ROLLEY, RONALD T.	IMMUNOLOGICAL ANALYSES OF RENAL TRANSPLANT PATIENTS	5R01 AM18267-02	46,716
ROSEMAN, SAUL	MEMBRANE STRUCTURE AND FUNCTION. ( SOLUTE TRANSPORT)	5R01 AM09851-11	155,307
ROSEMAN, SAUL	MEMBRANE STRUCTURE AND FUNCTION. ( SOLUTE TRANSPORT)	5R01 AM09851-12	159,756
ROSEMAN, SAUL	BIOCHEMISTRY OF NORMAL AND MALIGNANT CELL SURFACES	5R01 CA15161-03	95,371
ROSEMAN, SAUL	BIOCHEMISTRY OF NORMAL AND MALIGNANT CELL SURFACES	5R01 CA15161-04	97,899
ROSS, RICHARD S.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00035-16	727,187
ROSS, RICHARD S.	GENERAL CLINICAL RESEARCH CENTER	2M01 RR00052-15	482,864
ROSS, RICHARD S.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00722-04	155,009
ROSS, RICHARD S.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05378-15	261,305
ROTH, STEPHEN A.	SURFACE ENZYMES ON MALIGNANT AND NONMALIGNANT CELLS	1R01 CA18827-01	19,111
ROTH, STEPHEN A.	MORPHOGENESIS IN EMBRYONIC AND PATHOLOGICAL SYSTEMS	5R01 HD05297-06	64,449
RUBIN, ROBERT J.	PROGRAM IN BIOLOGICAL EFFECTS OF ENVIRONMENTAL AGENTS	5P01 ES00454-07	880,997
RUBIN, ROBERT J.	PROGRAM IN BIOLOGICAL EFFECTS OF ENVIRONMENTAL AGENTS	5P01 ES00454-08	924,206
SACHS, MURRAY B.	STIMULUS ENCODING IN THE AUDITORY SYSTEM	5R01 NS12112-02	97,485
SACK, R. BRADLEY	ESCHERICHIA COLI TOXINS, PURIFICATION & PROPERTIES	5R22 AI12665-02	52,615
SAGAWA, KIICHI	SYSTEMS ANALYSIS OF BARORECEPTOR REFLEX	2R01 HL14529-05A1	86,282
SAGAWA, KIICHI	SYSTEMS ANALYSIS OF BARORECEPTOR REFLEX	5R01 HL14529-06	86,594
SAGAWA, KIICHI	A NEW INDEX OF CARDIAC CONTRACTILITY	5R01 HL14903-05	73,391
SAGAWA, KIICHI	MECHANICS OF HEART MUSCLE CONTRACTION	1R01 HL18912-01	57,254
SANTOS, GEORGE W.	BONE MARROW TRANSPLANTATION IN HUMAN DISEASE	5P01 CA15396-03	194,328
SANTOS, GEORGE W.	BONE MARROW TRANSPLANTATION IN HUMAN DISEASE	2P01 CA15396-04	793,105
SANTOS, GEORGE W.	EFFECTS OF SEA STAR FACTOR ON TUMOR IMMUNITY AND GVHR	5R01 CA17184-02	88,800
SCHRAMM, LAWRENCE P.	ANALYSIS OF INTERACTION BETWEEN CNS VASOMOTOR SYSTEMS	5R01 HL16315-03	53,696
SCHUETZ, ALLEN W.	OOCYTE GROWTH & MATURATION—MECHANISMS & REGULATION	5R01 HD07041-02	44,400
SCOCCA, JOHN J.	MOLECULAR MECHANISMS IN NUCLEIC ACID TRANSPORT	1R01 GM21890-01A1	44,154
SCOTT, WILLIAM W.	CHEMOTHERAPY OF PROSTATIC CANCER	2R26 CA15407-03	3
SELTZER, RAYMOND	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05445-15	261,305
SHAH, KEERTI V.	INVESTIGATION OF SV40-RELATED INFECTIONS OF MAN	5R01 CA13478-05	81,992
SHEARN, ALLEN D.	REGULATION OF POSTEMBRYONIC DEVELOPMENT IN DROSOPHILA	5R01 GM20429-03	30,945
SHELDON, WALTER H.	EXPERIMENTAL DIFFUSE INTERSTITIAL PULMONARY FIBROSIS	5R01 HL16359-02	64,451
SHIN, HYUN S.	STUDIES ON TUMOR IMMUNITY	5R01 CA14113-04	100,162
SHOUKAS, ARTIN A.	CIRCULATION STUDIES BY ONE VERSUS TWO CIRCUIT MODEL	1R01 HL19039-01	29,174
SILVERSTEIN, ARTHUR M.	STUDY OF OCULAR HYPERSENSITIVITY	5R01 EY00217-16	45,018
SOER, WILLIAM H.	A SYSTEM FOR ANALYSIS OF GENE CONTROL	5R01 GM18254-05	59,039
SOUTHWICK, CHARLES H.	PRIMATE POPULATION STUDIES	5R01 RR00910-03	14,553
SPIVAK, JERRY L.	ROLE OF ERYTHROPOIETIN IN TRANSCRIPTIONAL CONTROL	2R01 AM16702-04	20,856
STARK, WALTER J.	THE ROLE OF HLA ANTIGENS IN CORNEAL TRANSPLANTATION	5R01 EY01302-03	58,897
STRANDBERG, JOHN D.	ANIMAL RESOURCE SUPPORT FOR BIOMEDICAL RESEARCH	5P40 RR00130-13	209,899
STRANDBERG, JOHN D.	ANIMAL RESOURCE IMPROVEMENT	3P40 RR00928-01S1	151,481
SUSKIND, SIGMUND R.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07041-11	121,595
SWIFT, DAVID L.	RESPIRATORY TRACT DEPOSITION OF HYGROSCOPIC AEROSOLS	1R01 HL19715-01	109,100
SYKES, ZENAS M. JR.	DYNAMICS OF POPULATIONS WITH CHANGING VITAL RATES	5R01 HD08959-02	42,139
TALALAY, PAUL	BIOCHEMICAL PHARMACOLOGY OF STEROID HORMONES	2R01 AM07422-13	87,448
TALALAY, PAUL	DESIGN OF CHEMOTHERAPEUTIC AGENTS	5P01 GM16492-08	216,640
TALALAY, PAUL	DESIGN OF CHEMOTHERAPEUTIC AGENTS	5P01 GM16492-09	220,853
TALAMO, BARBARA R.	OCTOPAMINE: ITS ROLE IN THE VERTEBRATE NERVOUS SYSTEM	1R01 NS12839-01	60,687
TALAMO, RICHARD C.	THE KININ SYSTEM AND ALPHA-1-ANTITRYPSIN IN MAN	5R01 HL18031-02	74,423
TALAMO, RICHARD C.	STUDIES IN CYSTIC FIBROSIS AND BRONCHIOLITIS	1P50 HL19157-01	334,585
TRACEY, DANIEL E.	CYTOTOXIC K CELLS WITHIN MURINE TUMORS	1R01 CA19483-01	49,557
TRIPS, MILAN	GENETICS OF THE AEDES SCUTELLARIS COMPLEX	1R01 AI13396-01	42,252
TS'O, PAUL O.	ESR STUDY ON HYDROCARBON RADICALS AND CARCINOGENESIS	3R01 CA13370-04S1	26,862
TS'O, PAUL O.	NUCLEIC ACID INVOLVEMENT IN NEOPLASTIC TRANSFORMATION	5P01 CA16043-02	195,976
TS'O, PAUL O.	NUCLEIC ACID CHEMISTRY AND ITS BIOMEDICAL APPLICATION	5R01 GM16066-09	134,157
TSAN, MIN-FU	STUDY OF NEUTROPHIL METABOLISM AND FUNCTION	1R01 AI13004-01	45,728
TSONG, TIAN Y.	DYNAMICS OF ARTIFICIAL AND BIOLOGICAL MEMBRANES	5R01 HL18048-02	43,143

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
WAALKES, T. PHILLIP.....	CANCER CONTROL DEVELOPMENTAL GRANT.....	5R18 CA17448-02	511,200
WAGNER, HENRY N. JR.....	NUCLEAR INSTRUMENTATION AND CHEMISTRY IN MEDICINE.....	2P01 GM10548-14	291,910
WALKER, A. EARL.....	INTRACRANIAL PRESSURE MONITOR.....	2R01 NS11710-02	53,033
WALKER, DONALD G.....	STUDIES OF OSTEOPETROSIS AND ON ISOLATED OSTEOCLASTS.....	5R01 AM12491-08	81,783
WALKER, W. GORDON.....	FACTORS REGULATING ELECTROLYTE EXCRETION BY THE KIDNEY.....	5R01 HL03303-19	87,156
WALKER, W. GORDON.....	FACTORS REGULATING ELECTROLYTE EXCRETION BY THE KIDNEY.....	5R01 HL03303-20	85,818
WALKER, W. GORDON.....	STUDY OF ROLE OF ANGIOTENSIN IN HYPERTENSION.....	3R01 HL15349-02S1	3,139
WALSER, MACKENZIE.....	IONIC INTERACTIONS IN ELECTROLYTE METABOLISM.....	5R01 AM02306-18	73,540
WALSER, MACKENZIE.....	AMINO ACID ANALOGUES IN NUTRITION.....	5P01 AM18020-02	168,008
WALSER, MACKENZIE.....	AMINO ACID ANALOGUES IN NUTRITION.....	5P01 AM18020-03	177,162
WALSH, PATRICK C.....	STUDIES OF ANDROGEN RECEPTORS IN PROSTATIC CARCINOMA.....	5R26 CA16924-02	51,607
WALSH, PATRICK C.....	STUDIES OF ANDROGEN RECEPTORS IN PROSTATIC CARCINOMA.....	5R26 CA16924-03	58,593
WANG, SHIH YI.....	IN SITU FLUORESCENT PROBES FOR DNA RADIATION DAMAGE.....	5R01 GM21146-02	37,975
WEINBERG, ERIC S.....	HISTONE GENES AND THEIR TRANSCRIPTION.....	5R01 GM22155-02	60,494
WEISS, LEON P.....	ELECTRON MICROSCOPY OF THE RETICULOENDOTHELIAL SYSTEM.....	5R01 AM11381-16	103,096
WHITE, EMIL H.....	CANCER AND ANTICANCER ACTIVITY OF NITROSO COMPOUNDS.....	1R01 CA18387-01A1	24,198
WHITE, EMIL H.....	STUDY OF CHEMILUMINESCENCE AND BIOLUMINESCENCE.....	5R01 GM19488-19	66,487
WHITE, EMIL H.....	STUDY OF CHEMILUMINESCENCE AND BIOLUMINESCENCE.....	5R01 GM19488-20	86,788
WHITE, EMIL H.....	THE DEAMINATION OF ALIPHATIC AMINES.....	5R01 GM21450-02	54,035
WILLOUGHBY, WILLIAM F.....	MITOGEN INDUCED INTERSTITIAL PNEUMONITIS.....	1R01 HL19819-01	81,020
WINKELSTEIN, JERRY A.....	STUDIES ON HEAT LABILE OPSONIN AND SICKLE CELL DISEASE.....	5R01 AI11637-03	29,255
YOUNG, ERIC D.....	PROPERTIES OF NEURONS IN THE INFERIOR COLICULUS.....	5R01 NS12524-02	38,217
ZEE, DAVID S.....	OCULOMOTOR DISORDERS: CLINICAL AND EXPERIMENTAL STUDY.....	1R01 EY01849-01	39,233
ZIERLER, KENNETH L.....	FLUXES ACROSS BIOMEMBRANES AND PEPTIDE HORMONE ACTION.....	5R01 AM17574-03	102,083
ZIRKIN, BARRY R.....	SPERMIOGENESIS AND FERTILIZATION IN MAMMALS.....	1R01 HD09921-01	66,479
ORGANIZATION TOTAL	313	35,580,222	
<b>SINAI HOSPITAL OF BALTIMORE ZIP CODE 21215</b>			
BUDDHA, PAUL D.....	DRUG DEVELOPMENT FOR PROSTATIC CARCINOMA.....	5R26 CA16077-03	108,466
FORMAN, SPENCER.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05478-12	36,790
HAUSWIRTH, JUDITH W.....	NUTRITION AND CHEMICAL CARCINOGENESIS.....	5R01 CA15911-03	30,204
NAIR, PADMANABHAN P.....	TRACE LIPIDS IN CELL FUNCTION.....	3R01 AM02131-18S1	20,081
SERRANO, JOSE A.....	EXPERIMENTAL AND CLINICAL CANCER CHEMOTHERAPY.....	5R01 CA02478-22	129,771
ORGANIZATION TOTAL	5	325,312	
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 21211</b>			
WARBASSE, J. RICHARD.....	COOPERATIVE STUDY ON THE TREATMENT OF HYPERTENSION.....	5R01 HL10716-10	50,155
ORGANIZATION TOTAL	1	50,155	
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND AT BALTIMORE ZIP CODE 21201</b>			
ABZUG, CHARLES.....	SPATIAL ORGANIZATION OF THE VESTIBULAR NUCLEI.....	1R01 NS12736-01A1	35,175
ADAMS, ELIJAH.....	METABOLISM OF CERTAIN AMINO ACIDS.....	5R01 GM11105-14	127,808
ALBUQUERQUE, EDSON X.....	MUSCLE REINNERVATION AND NEUROTROPHIC INFLUENCE.....	2R01 NS12063-03	103,590
APOSTOLIDES, ARISTIDE Y.....	HYPERTENSION INCIDENCE PROJECT.....	1R01 HL18715-01	262,035
BARRACLOUGH, CHARLES A.....	CENTRAL NERVOUS SYSTEM REGULATION OF REPRODUCTION.....	5R01 HD02138-14	108,901
BARRACLOUGH, CHARLES A.....	CENTRAL NERVOUS SYSTEM REGULATION OF REPRODUCTION.....	5R01 HD02138-15	109,359
BHALLA, SATISH C.....	GENETIC CONTROL OF FILARIASIS VECTORS.....	5R22 AI11725-03	48,389
BLACK, LINDSAY W.....	PHAGE T4 HEAD ASSEMBLY AND INITIATION OF INFECTION.....	5R01 AI11676-03	44,679
BRINLEY, FLOYD J. JR.....	ION FLUXES IN NERVE AND MUSCLE.....	7R01 NS13420-01	112,536
BUCCI, CLARA F.....	STUDY OF FOLDING OF POLYPEPTIDE CHAINS IN HEMOGLOBIN.....	5R01 HL16891-02	56,008
BUCCI, CLARA F.....	STUDY OF FOLDING OF POLYPEPTIDE CHAINS IN HEMOGLOBIN.....	5R01 HL16891-03	30,535
BUCCI, ENRICO.....	INTERACTION OF A AND B CHAINS OF HUMAN HEMOGLOBINS.....	5R01 HL13164-05	32,860
BUCCI, ENRICO.....	ALLOSTERIC INTERACTIONS OF HUMAN HEMOGLOBIN.....	3R01 HL16278-02S1	1,509
BULGER, RUTH E.....	EVOLUTION OF RENAL ULTRASTRUCTURE AND FUNCTION.....	5R01 AM16236-05	23,446
BUTERBAUGH, GARY G.....	NEONATE, ADULT SEIZURE DISCHARGE: MONOAMINE REGULATION.....	5R01 NS12383-02	26,713
BYRON, JOSEPH W.....	REGULATION OF THE HEMOPOIETIC STEM CELL.....	5R01 CA16147-03	54,203
CHANG, YUNG-FENG.....	AMINO ACIDS AND CELL WALL BIOSYNTHESIS.....	1R01 DE04116-01A1	35,345
CHANG, YUNG-FENG.....	METABOLISM & INHIBITION-LYSINE RELATED TO BRAIN DISEASE.....	5R01 NS11822-03	23,628
CHANNING, CORNELIA P.....	THE MECHANISM OF LUTEINIZATION IN VITRO AND IN VIVO.....	5R01 HD08834-02	72,187
CORNBLATH, MARVIN.....	CARBOHYDRATE METABOLISM IN THE NEONATE.....	5R01 HD03959-08	106,040

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
CRAMER, ONEIDA M.....	NEUROENDOCRINE CORRELATES OF GONADOTROPIN SECRETION.....	5R01 HD07916-03	38,184
DENNIS, JOHN M.....	SUPPORT FOR INTERNATIONAL CENTER FOR MEDICAL RESEARCH.....	5R07 AI10049-17	492,790
DENNIS, JOHN M.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05379-15	180,145
ELDEFRAWI, AMIRA T.....	TOXICOLOGICAL STUDIES ON INSECT ACH-RECEPTORS.....	7R01 AI13640-01	40,008
ELDEFRAWI, MOHYEE E.....	DRUG MOLECULAR INTERACTIONS WITH CHOLINERGIC RECEPTORS.....	7R01 NS13231-01	30,743
FALKLER, WILLIAM A, JR.....	INHIBITION OF F. POLYMORPHUM HA BY HUMAN GAMMA GLOBULIN.....	2R01 DE04161-02	11,710
FISET, PAUL.....	HUMAN PERINATAL INFECTIONS WITH COXIELLA BURNETI.....	5R01 AI12018-03	34,753
GOLDMAN, LAWRENCE.....	STUDIES ON ELECTRICAL EXCITATION.....	2R01 NS07734-08	45,668
GUTH, LLOYD.....	REGENERATION IN THE MAMMALIAN SPINAL CORD.....	1R01 NS12847-01	51,570
HAWKINS, JOHN R.....	USE OF CIRCULAR MYOTOMY IN ESOPHAGEAL RECONSTRUCTION.....	1R01 AM17928-01A1	23,476
HARRISON, GEORGE H.....	RADIOLOGIC PROPERTIES OF HIGH ENERGY NEUTRON BEAMS.....	1R01 CA18807-01	42,500
HUANG, SHIH-WEN.....	MONOCYTE AND T-LYMPHOCYTE RECEPTORS IN MALIGNANCY.....	5R01 CA15611-03	35,571
HYBL, ALBERT.....	X-RAY CRYSTAL STRUCTURE ANALYSIS OF DIACYL LIPIDS.....	5R01 CA16773-02	31,951
JANOSKI, ALFONSO H.....	RADIOLOGIC ROLE OF 16-HYDROXYLATED STEROIDS.....	1R01 HD09598-01	16,300
JONES, RAYMOND T.....	IN VITRO PANCREATIC CARCINOGENESIS.....	1R26 CA19197-01	34,625
KAPPELMAN, MURRAY M.....	INFORMATION NEEDS OF PRACTICING PHYSICIANS.....	5R01 LM02456-02	88,144
KESSEL, ROSSLYN W.....	A NEW APPROACH TO ORGANIZING BIOMEDICAL KNOWLEDGE.....	5R01 LM02457-02	48,907
KIRTLEY, MARY E.....	STUDY OF GLYCOLYTIC ENZYMES BOUND TO MEMBRANES.....	2R01 GM19394-04	68,127
KIRTLEY, MARY E.....	DEHYDROGENASE STRUCTURE AND FUNCTION.....	5R01 GM20294-03	21,489
KLIMT, CHRISTIAN R.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM06876-14	191,226
KLIMT, CHRISTIAN R.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM06876-15	135,356
KLIMT, CHRISTIAN R.....	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE.....	5R01 HL08888-12	725,911
LAMBOOY, JOHN P.....	COVALENT BONDING OF FLAVINS IN NEOPLASTIC TISSUE.....	1R01 CA18691-01	18,270
MASON, GEORGE R.....	THE ROLE OF LYSOPHOSPHATIDES IN CELL INJURY.....	5R01 GM21396-03	55,896
MAX, STEPHEN R.....	METABOLIC ADAPTATION IN REGENERATING SKELETAL MUSCLE.....	5R01 NS11342-02	22,224
MIDDLEBROOK, GARDNER.....	ANTIMICROBIAL ACTIVATION OF MACROPHAGES.....	5R01 AI12125-03	49,090
MULLINS, LORIN J.....	THE ION SELECTIVITY OF THE EXCITABLE MEMBRANE.....	5R01 NS05846-10	56,190
NELSON, ERLAND R.....	CEREBROVASCULAR CLINICAL RESEARCH CENTER.....	5P50 NS06779-08	381,663
OZAND, PINAR T.....	BIOCHEMISTRY OF ALANINE RELEASE FROM MUSCLE.....	5R01 AM18127-02	41,668
PADMANABHAN, RADHAKRISHNAN.....	DNA SEQUENCE ANALYSIS ON HUMAN ADENOVIRUS GENOMES.....	7R01 CA20369-01	44,183
PINTER, GABRIEL G.....	HEART AND KIDNEY CAPILLARY PERMEABILITY IN DIABETES.....	5R01 AM17093-03	66,188
PINTER, GABRIEL G.....	HYPERTENSION, KIDNEY DISEASE AND RENAL LYMPH.....	5R01 HL17781-02	34,435
POLAKIS, S EFTIMIOS.....	DIFFERENTIATION OF 3T3-L1 FIBROBLASTS TO ADIPOCYTES.....	1R01 GM23057-01	71,193
POMERANTZ, SEYMOUR H.....	TYROSINASES - MECHANISM OF ACTION AND REGULATION.....	5R01 CA07093-14	60,217
PROVENZA, D VINCENT.....	A HISTO-CYTOCHEMISTRY OF TOOTH DEVELOPMENT.....	5R01 DE02800-06	50,426
PROVENZA, D VINCENT.....	A HISTO-CYTOCHEMISTRY OF TOOTH DEVELOPMENT.....	5R01 DE02800-07	39,104
RICHARDS, RICHARD D.....	HISTOCHEMICAL CHANGES IN EXPERIMENTAL CATARACTS.....	5R01 EY01292-03	23,177
ROBINSON, J EUGENE.....	RADIATION AND RADIOBIOLOGY RESEARCH CENTER.....	3P01 CA06518-11S3	28,069
ROBINSON, J EUGENE.....	RADIATION AND HYPERTHERMIC CANCER THERAPY.....	1R01 CA18872-01	54,148
ROSEN, BARRY P.....	BIOENERGETICS OF MICROBIAL MEMBRANE FUNCTIONS.....	5R01 GM21648-02	41,752
RUCHKIN, DANIEL S.....	EMITTED POTENTIALS AND COGNITIVE ACTIVITY.....	2R01 NS11199-02	60,010
SHEAR, CHARLES R.....	POSTEMBRYONIC STRIATED MUSCLE GROWTH.....	7R01 AM20131-01	21,657
STRUM, JUDY M.....	NEOPLASTIC MAMMARY GLAND: STRUCTURE/FUNCTION.....	1R01 CA20764-01	37,471
THOMPSON, VAN P.....	DENTAL RESINS THAT EXPAND ON POLYMERIZATION.....	2R01 DE03869-03	62,442
THUT, PAUL D.....	EFFECTS OF L-DOPA ON BRAIN SEROTONIN.....	5R01 NS12504-02	32,098
TILDON, J TYSON.....	KETONE METABOLISM IN DEVELOPMENTAL HOMEOSTASIS.....	5R01 HD06291-05	52,159
TRAUB, ROBERT.....	STUDIES OF CERTAIN IMPORTANT GENERA OF SIPHONAPTERA.....	5R01 AI04242-15	108,740
TRUMP, BENJAMIN F.....	SUBCELLULAR REACTION TO INJURY IN THE KIDNEY.....	5R01 AM15440-06	95,868
WAECHTER, CHARLES J.....	THE ROLE OF POLYPRENOLS IN BRAIN GLYCOPROTEIN ASSEMBLY.....	5R01 NS12296-02	38,129
WISWELL, JOHN G.....	PREPARATION OF RADIOPHARMACEUTICALS FROM DRUG ANALOGS.....	1R01 HL18744-01	66,678
ORGANIZATION TOTAL	70	5,569,245	

**BETHESDA**

**AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS      ZIP CODE 20014**

GUNSALUS, IRWIN C.....	TENTH INTERNATIONAL BIOCHEMISTRY CONGRESS.....	1R13 AM19458-01	15,000
GUNSALUS, IRWIN C.....	TENTH INTERNATIONAL BIOCHEMISTRY CONGRESS.....	1R13 CA19005-01	34,500
GUNSALUS, IRWIN C.....	TENTH INTERNATIONAL BIOCHEMISTRY CONGRESS.....	1R13 GM22690-01	25,000
ORGANIZATION TOTAL	3	74,500	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
<b>INDIVIDUAL AWARD—BENZINGER, THEODOR H.      ZIP CODE 20034</b>			
BENZINGER, THEODOR H.....	MEDICAL PHYSIOLOGY OF TEMPERATURE.....	5R01 LM02100-02	19,800
ORGANIZATION TOTAL	1      19,800		
<b>MID-ATLANTIC RESEARCH INSTITUTE      ZIP CODE 20014</b>			
ZOM, GERALD.....	SYNTHESIS OF POTENTIAL CNS ANTITUMOR PRODRUGS.....	5R01 CA18366-02	56,704
ORGANIZATION TOTAL	1      56,704		
<b>NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS      ZIP CODE 20014</b>			
MEY, W ROGER.....	RADIATION PROTECTION AND MEASUREMENTS.....	5R01 CA18001-11	45,000
ORGANIZATION TOTAL	1      45,000		
<b>TRANSNATIONAL FAMILY RESEARCH INSTITUTE      ZIP CODE 20034</b>			
DAVID, HENRY P.....	DANISH EXPERIENCE WITH EFFECTS OF LIBERALIZED ABORTION.....	1R01 HD09739-01	80,986
ORGANIZATION TOTAL	1      80,986		
<b>U.S. DEPARTMENT OF THE NAVY—NATIONAL NAVAL MEDICAL CENTER      ZIP CODE 20014</b>			
ARONOW, LEWIS.....	DRUG RESISTANCE IN MOUSE CELLS CULTURED IN VITRO.....	7R01 CA21689-01	18,000
ORGANIZATION TOTAL	1      18,000		
<b>UNDERSEA MEDICAL SOCIETY      ZIP CODE 20014</b>			
SHILLING, CHARLES W.....	PRODUCTION OF HYPERBARIC OXYGEN THERAPY MONOGRAPH.....	1R01 LM02635-01	17,322
ORGANIZATION TOTAL	1      17,322		
<b>UNIVERSITIES ASSOCIATED FOR RESEARCH AND EDUCATION IN PATHOLOGY      ZIP CODE 20014</b>			
FINE, BEN S.....	ELECTRON MICROSCOPY IN OCULAR PATHOLOGY.....	5R01 EY00133-07	49,205
HARTMANN, WILLIAM H.....	ATLAS OF TUMOR PATHOLOGY.....	5R01 CA08575-11	105,971
MOSTOFI, FATHOLLAH K.....	HISTOPATHOLOGICAL GRADING OF CARCINOMA OF PROSTATE.....	5R26 CA15798-03	46,466
NAGARAJAN, KRISHNASWAMY.....	UREASE AND ITS INHIBITORS IN CHEMISTRY AND MEDICINE.....	5R01 AM10960-10	39,116
TEROS, ELIAS G.....	RADIOLOGIC ONCOLOGY TEACHING MATERIALS DEVELOPMENT.....	5R01 CA15413-03	93,982
TSO, MARK O.....	PATHOLOGY AND PATHOGENESIS OF EDEMA OF OPTIC DISC.....	2R01 EY01163-04	4,173
WISSLER, ROBERT W.....	SUPPORT FOR REGISTRY OF COMPARATIVE PATHOLOGY.....	5R01 RR00301-11	134,787
ORGANIZATION TOTAL	7      473,700		
<b>CATONSVILLE</b>			
<b>MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE      ZIP CODE 21228</b>			
BLACK, PERRY.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05546-14	67,882
ORGANIZATION TOTAL	1      67,882		
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND BALTIMORE COUNTY CAMPUS      ZIP CODE 21228</b>			
GETTMANN, RICHARD C.....	GENETIC CONTROL OF THE MEIOTIC PROCESS.....	5R01 GM22050-02	48,936
HAYS, JOHN B.....	PROTEIN/MEMBRANE FUNCTION DURING SUGAR TRANSPORT.....	5R01 GM20211-03	23,368
LOVETT, PAUL S.....	PLASMID ASSOCIATED WITH ALTERED SPORULATION.....	5R01 AI10331-04	29,484
LOVETT, PAUL S.....	PLASMID ASSOCIATED WITH ALTERED SPORULATION.....	5R01 AI10331-05	23,504
LOVETT, PAUL S.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR07159-01	38,709
MARCUS, ALLAN H.....	COMPARTMENT MODELS FOR BODY BURDEN OF POLLUTANTS.....	1R01 ES01236-01	21,461
POLLACK, RALPH M.....	MODELS FOR SCHIFF BASE ENZYMES.....	5R01 GM20188-03	32,361
RABIN, BERNARD M.....	ELECTROPHYSIOLOGICAL STUDIES OF FOOD INTAKE.....	5R01 NS12203-02	22,530
ROTH, THOMAS F.....	SELECTIVE PROTEIN UPTAKE IN DEVELOPING OOCYTES.....	5R01 HD09549-02	37,903
STEINER, ROBERT F.....	CONFORMATIONAL TRANSITIONS OF ALLOSTERIC ENZYMES.....	2R01 AM16688-04	49,275
VITULLO, VICTOR P.....	CARBOXYLATE ION CATALYSIS AND LYSOZYME.....	5R01 GM21933-02	40,009
WHALEN, DALE L.....	NONENZYMATIC REACTIONS OF HIGHLY REACTIVE EPOXIDES.....	5R01 CA17278-02	27,411
ORGANIZATION TOTAL	12      394,951		
<b>CHEVY CHASE</b>			
<b>AMERICAN COLLEGE OF RADIOLOGY      ZIP CODE 20015</b>			
KRAMER, SIMON.....	RADIATION THERAPY ONCOLOGY GROUP.....	7R10 CA21661-01	333,469



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
ORGANIZATION TOTAL	1	333,469	
<b>COLLEGE PARK</b>			
UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND COLLEGE PARK CAMPUS		ZIP CODE 20742	
AMMON, HERMAN I	CONFORMATIONAL ANALYSIS OF THYROID HORMONE ANALOGS	5R01 AM17458-03	35,326
BRAUTH, STEVEN E	COMPARATIVE NEUROBIOLOGY OF THE BASAL GANGLIA	1R01 NS13018-01	36,252
BRINKLEY, HOWARD J	FUNCTIONING OF CORPORA LUTEA	3R01 HD00739-10S1	7,195
BRINKLEY, HOWARD J	FUNCTIONING OF CORPORA LUTEA	2R01 HD00739-11	53,941
GOODE, M DENNIS	CHANGES IN DNA SYNTHESIS WITH AGE OF THE HEART	1R01 HL18702-01	27,681
HAMLET, SANDRA L	PHYSIOLOGICAL STUDY OF SPEECH ADAPTATION	5R01 DE03663-03	16,608
HAYS, JOHN B	RECOMBINATION OF DNA IN A CELL-FREE SYSTEM	1R01 GM22586-01	40,553
HENERY-LOGAN, KENNETH R	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07042-11	52,110
HODOS, WILLIAM	A BEHAVIORAL ANALYSIS OF VISUAL SYSTEM EVOLUTION	5R01 EY00735-06	69,336
KAGY, KENNETH W	CONFERENCE ON MYCOTOXINS IN HUMAN AND ANIMAL HEALTH	1R13 CA20729-01	32,771
KANAL, LAVEEN N	RESOURCE-RELATED RESEARCH GRAPHIC FORMULA TRANSLATION	1R01 GM22099-01	55,147
LEVINSON, JOHN Z	SPATIAL AND TEMPORAL PROPERTIES OF HUMAN VISION	1R01 EY01640-01	52,107
MC INTIRE, ROGER W	BEHAVIORAL EFFECTS OF CARBON MONOXIDE EXPOSURE	5R01 ES00757-04	46,604
MENZER, ROBERT E	ANIMAL METABOLISM OF PLANT CONJUGATES OF PESTICIDES	5R01 ES00121-11	36,129
PENNER, MERRILYNN J	TEMPORAL ANALYSIS OF AUDITORY STIMULI	7R01 NS13673-01	20,479
SISLER, HUGH D	MECHANISM OF ACTION OF FUNGICIDES	5R01 AI00225-24	49,609
STEINMAN, ROBERT M	STIMULUS VARIABLES IN MONOCULAR FIXATION	5R01 EY00325-11	42,888
STERNHEIM, CHARLES E	SPATIAL AND TEMPORAL INTERACTIONS IN HUMAN VISION	5R01 EY00539-06	25,340
YORKE, JAMES A	MODELING THE EPIDEMIOLOGY AND CONTROL OF GONORRHEA	1R01 AI13233-01	13,993
ZAJAC, FELIX E, III	MOTOR UNIT ORGANIZATION DURING LOCOMOTION	2R01 NS11518-02	39,167
ZAJAC, FELIX E, III	EXPERIMENT & OPTIMAL CONTROL TO STUDY ANIMAL MOVEMENT	5R01 NS11971-02	54,633
ORGANIZATION TOTAL	21	807,869	
<b>PRINCESS ANNE</b>			
UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND EASTERN SHORE		ZIP CODE 21853	
WUTCH, JOSEPH G	MARINE AND ESTUARINE PHARMACOLOGY	5S06 RR08079-02	18,861
WUTCH, JOSEPH G	MARINE AND ESTUARINE PHARMACOLOGY	2S06 RR08079-03	114,925
ORGANIZATION TOTAL	2	133,786	
<b>ROCKVILLE</b>			
AMERICAN TYPE CULTURE COLLECTION		ZIP CODE 20852	
MEYER, SALLY A	MOLECULAR APPROACHES TO THE TAXONOMY OF YEASTS	5R01 GM19240-05	52,650
ORGANIZATION TOTAL	1	52,650	
INDIVIDUAL AWARD—MORANTZ, REGINA MARKELL		ZIP CODE 20852	
MORANTZ, REGINA M	WOMEN IN THE AMERICAN MEDICAL PROFESSION, 1830-1930	1R01 LM02701-01	14,910
ORGANIZATION TOTAL	1	14,910	
<b>SILVER SPRING</b>			
INSTITUTE FOR BEHAVIORAL RESEARCH		ZIP CODE 20910	
PARSONS, H MC ILVAINE	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05636-10	45,862
TAUB, EDWARD	FETAL ORIGINS OF PRIMATE SENSORY-MOTOR INTEGRATION	5R01 HD08579-03	72,726
ORGANIZATION TOTAL	2	118,588	
JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY		ZIP CODE 20910	
KIM, BORIS F	HIGH RESOLUTION SPECTROSCOPY OF PORPHYRINS	5R01 GM21897-02	65,056
ORGANIZATION TOTAL	1	65,056	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MARYLAND—Continued</b>			
<b>TOWSON</b>			
<b>GREATER BALTIMORE MEDICAL CENTER      ZIP CODE 21204</b>			
PROUT, THADDEUS E.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	7R01 AM19784-01	8,238
PROUT, THADDEUS E.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM19784-02	10,458
ORGANIZATION TOTAL	2      18,696		
STATE TOTAL	461      45,041,498		
<b>MASSACHUSETTS</b>			
<b>AMHERST</b>			
<b>AMHERST COLLEGE      ZIP CODE 01002</b>			
BEEBE, RALPH A.....	THE SURFACE CHEMISTRY OF BONE MINERAL.....	3R01 AM02896-14S1	10,810
FINK, RICHARD D.....	PRECISION PRODUCTION OF ORGANIC TRACERS.....	5R01 GM13966-09	27,078
GEORGE, STEPHEN A.....	VISION IN TRIPLOID ANIMALS.....	5R01 EY01662-02	12,808
KIDDER, GEORGE W.....	METABOLIC STUDIES ON ANIMAL MICROORGANISMS.....	5R01 AM01005-24	38,046
KIDDER, GEORGE W.....	SYNTHESIS AND TESTING OF METABOLIC ANALOGS.....	5R01 CA02924-20	36,138
KIDDER, GEORGE W.....	SYNTHESIS AND TESTING OF METABOLIC ANALOGS.....	5R01 CA02924-21	35,838
KROPF, ALLEN.....	PHOTOCHEMISTRY OF THE VISUAL PIGMENTS.....	5R01 EY00201-15	17,660
LEADBETTER, EDWARD R.....	GRAM-NEGATIVE BACTERIA OF DENTAL PLAQUES: PROPERTIES.....	1R01 DE04383-01	67,218
SILVER, MARC S.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07110-09	22,566
WAGGONER, ALAN S.....	EARLY MOLECULAR EVENTS IN VISUAL EXCITATION.....	5R01 EY00930-05	24,853
WAGGONER, ALAN S.....	OPTICAL PROBES OF NERVE EXCITATION.....	5R01 NS10489-05	38,579
ZIMMERMAN, WILLIAM F.....	BIOCHEMISTRY OF VISUAL CELL RENEWAL AND VISUAL CYCLES.....	5R01 EY00675-06	25,952
ORGANIZATION TOTAL	12      357,546		
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS AT AMHERST      ZIP CODE 01002</b>			
ARBIB, MICHAEL A.....	INFORMATION PROCESSING IN THE BRAIN.....	5R01 NS09755-07	88,862
BLACK, DONALD L.....	NEURAL-ENDOCRINE CONTROL OF THE OVIDUCT.....	5R01 HD06788-05	26,650
BRANDTS, JOHN F.....	FREE ENERGY OF FOLDING OF GLOBULAR PROTEINS.....	5R01 GM11071-14	69,505
BRANDTS, JOHN F.....	STRUCTURAL STUDIES OF THE HUMAN ERYTHROCYTE MEMBRANE.....	5R01 HL17878-02	52,890
CAMERINO, PAT W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07048-11	90,851
CANALE-PAROLA, ERCOLE.....	SPIROCHETES INDIGENOUS TO HUMANS.....	5R01 AI12482-02	54,243
CARPINO, LOUIS A.....	NEW AMINO-PROTECTING GROUPS.....	2R01 GM09706-11	52,600
CHIEN, JAMES C.....	BINDINGS IN HEMOPROTEINS AND HBS.....	5R01 HL14270-05	52,629
CHIEN, JAMES C.....	BINDINGS IN HEMOPROTEINS AND HBS.....	5R01 HL14270-06	47,412
COX, C D.....	CULTIVATION OF VIRULENT TREPONEMA PALLIDUM.....	2R01 AI10982-04	64,770
EDINGTON, DEE W.....	HEART MITOCHONDRIA IN AGING AND TRAINED MALE RATS.....	5R01 HL17939-02	14,340
FISCHER, MARK S.....	PRETRANSCRIPTIONAL CONTROL OF DEVELOPMENT.....	5R01 HD08341-02	50,778
FOURNIER, MAURILLE J, JR.....	BIOSYNTHESIS OF TRANSFER RIBONUCLEIC ACID.....	5R01 GM19351-05	47,028
HAGEDORN, HENRY H.....	CONTROL OF REPRODUCTION IN THE MOSQUITO.....	5R01 AI11909-03	25,424
HAGEDORN, HENRY H.....	CHARACTERIZATION OF MOSQUITO BRAIN HORMONE.....	1R01 AI13347-01	25,120
HALPERN, JOEL M.....	EXTENDED FAMILY HOUSEHOLDS AND DEMOGRAPHIC TRANSITION.....	5R01 HD08883-02	44,641
HOLMES, ROBERT R.....	PHOSPHATE MODEL FOR RIBONUCLEASE ACTION.....	5R01 GM21466-02	39,608
HONIGBERG, BRONISLAW M.....	PATHOGENICITY IN TRICHOMONADS AND TRYPANOSOMATIDS.....	5R01 AI00742-21	87,146
KUNKEL, JOSEPH G.....	CONTROL OF COCKROACH DEVELOPMENT.....	5R01 AI11269-03	16,322
LESSIE, THOMAS G.....	ALLOSTERIC MECHANISMS IN PSEUDOMONAS CATABOLISM.....	5R01 GM21198-08	35,565
LEVIN, BRUCE R.....	PROTEIN VARIATION AND SELECTION MECHANISMS IN E. COLI.....	3R01 GM19848-03S1	16,111
MARCUM, JAMES B.....	EXPERIMENTAL INDUCTION OF FREEMARTINISM IN THE EWE.....	5R01 HD08534-02	30,217
MASON, THOMAS L.....	A GENETIC APPROACH TO MEMBRANE ASSEMBLY.....	5R01 GM20909-03	35,444
MASON, THOMAS L.....	A GENETIC APPROACH TO MEMBRANE ASSEMBLY.....	2R01 GM20909-04	37,551
MORTLOCK, ROBERT P.....	THE EVOLUTION OF ENZYMATIC ACTIVITIES.....	5R01 AI06848-11	32,912
MYERS, NANCY A.....	EARLY DEVELOPMENT OF REPRESENTATIONAL PROCESSES.....	1R01 HD09346-01	57,105
MYERS, NANCY A.....	EARLY DEVELOPMENT OF REPRESENTATIONAL PROCESSES.....	5R01 HD09346-02	51,492
PARSONS, PETER P.....	MITOCHONDRIAL PROTEIN SYNTHESIS AND AUTONOMY.....	5R01 GM19763-02	32,976
PELLETT, PETER L.....	PROTEIN-ENERGY RELATIONSHIPS IN MALNUTRITION.....	5R01 AM17708-02	39,766

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
PORTER, ROGER S.....	TRANSFORMATION KINETICS IN MESOPHASES.....	5R01 HL13188-07	20,475
ROBERTS, LARRY S.....	GROWTH PHYSIOLOGY OF CESTODES.....	5R01 A06153-13	39,007
ROEPER, THOMAS W.....	COMPLEX LANGUAGE STRUCTURE ACQUISITION BY CHILDREN.....	1R01 HD09647-01	34,519
ROEPER, THOMAS W.....	COMPLEX LANGUAGE STRUCTURE ACQUISITION BY CHILDREN.....	5R01 HD09647-02	30,706
SCHNEIDER, DONALD L.....	ENZYMES LINKING BIOENERGY TO CATABOLISM IN LYSOSOMES.....	5R01 GM21260-02	36,167
SEARCY, DENNIS G.....	FUNCTION OF THERMOPLASMA ACIDOPHILUM HISTONE.....	1R01 GM22838-01	32,873
SLAKEY, LINDA L.....	BIOSYNTHESIS AND MODIFICATION OF FATTY ACIDS IN AORTA.....	5R01 HL16457-02	50,875
WADE, GEORGE N.....	HORMONES, BRAIN FUNCTION, AND BEHAVIOR.....	2R01 NS10873-04	41,627
WESTHEAD, EDWARD W, JR.....	MOLECULAR BASIS OF ASPARTOKINASE FEEDBACK CONTROL.....	2R01 AM11157-10	18,283
WESTHEAD, EDWARD W, JR.....	DIVALENT CATIONS IN ENOLASE AND OTHER BIOLOGICAL SYSTEMS.....	5R01 GM14945-10	39,155
WARD, HOWARD J.....	POPULATION POLICY IN LATIN AMERICA: THE OUTPUT SIDE.....	2R01 HD06604-03A1	19,840
WYSE, GORDON A.....	PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM.....	5R01 NS08869-06	39,207
ZIMMERMANN, ROBERT A.....	PHOTOCHEMICAL PROBES OF RIBOSOME ARCHITECTURE.....	1R01 GM22807-01	67,305
ORGANIZATION TOTAL	42	1,789,997	
<b>BELMONT</b>			
<b>MASSACHUSETTS GENERAL HOSPITAL—MCLEAN HOSPITAL DIVISION ZIP CODE 02178</b>			
DE MARNEFFE, FRANCIS.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05484-14	41,675
HAUSER, GEORGE.....	BIOCHEMISTRY OF INOSITOL AND PHOSPHOINOSITIDES.....	5R01 NS06399-08	56,671
HAUSER, GEORGE.....	GLYCOLIPID METABOLISM AND FUNCTION IN NERVOUS TISSUE.....	5R01 NS09866-05	42,294
LEES, MARJORIE B.....	RELATIONSHIP BETWEEN BRAIN PROTEINS AND LIPIDS.....	2R01 NS07136-10	136,864
SAKURA, J DAVID.....	CHEMICAL STUDIES ON PROTEOLIPID APOPROTEINS.....	1R01 HL18746-01	47,858
SHASHOUA, VICTOR E.....	BRAIN RNA METABOLISM AND THE BIOCHEMISTRY OF LEARNING.....	5R01 NS09407-04	65,965
SHASHOUA, VICTOR E.....	ACID SOLUBLE SYNAPTOSOMAL PROTEINS.....	5R01 NS11712-02	36,319
ORGANIZATION TOTAL	7	427,646	
<b>BOSTON</b>			
<b>AFFILIATED HOSPITALS CENTER—BOSTON HOSPITAL FOR WOMEN ZIP CODE 02115</b>			
TAEUSCH, H WILLIAM, JR.....	PREVENTION OF RDS WITH PRENATAL GLUCOCORTICOID.....	1R01 HD09970-01	69,549
ORGANIZATION TOTAL	1	69,549	
<b>AFFILIATED HOSPITALS CENTER—PETER BENT BRIGHAM HOSPITAL ZIP CODE 02115</b>			
ABRAMS, HERBERT L.....	CINEANGIOGRAPHIC STUDIES OF THE CARDIOVASCULAR SYSTEM.....	1R01 HL20895-01	124,045
BRAUNWALD, EUGENE.....	CARDIOVASCULAR RESEARCH PROGRAM.....	5R01 HL11306-10	19,045
BRAUNWALD, EUGENE.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00888-02	1,076,261
BRENNER, BARRY M.....	CONTROL OF FLUID EXCHANGES IN THE MAMMALIAN KIDNEY.....	7R01 AM19467-01	61,329
BUNN, H FRANKLIN.....	HEMOGLOBIN AIC IN PATIENTS WITH DIABETES MELLITUS.....	5R01 AM18223-02	58,086
BUNN, H FRANKLIN.....	FUNCTIONAL STUDY OF NORMAL AND ABNORMAL HEMOGLOBINS.....	3R01 HL16927-02S1	17,916
BUNN, H FRANKLIN.....	STRUCTURE AND FUNCTION OF NORMAL AND ABNORMAL HEMOGLOBIN.....	2R01 HL16927-03	79,232
CAREY, MARTIN C.....	ALIMENTARY TRACT LIPIDS IN HEALTH AND DISEASE.....	5R01 AM18559-02	47,985
CARPENTER, CHARLES B.....	NATURE & CONTROL OF LYMPHOCYTE MEDIATED CYTOTOXICITY.....	5R01 CA16937-03	64,550
COTRAN, RAMZI S.....	CARDIOPULMONARY AND RENAL PATHOLOGY RESEARCH CENTER.....	5P01 HL06370-15	249,107
FALCHUK, Z MYRON.....	PATHOGENESIS OF CELIAC SPRUE AND REGIONAL ENTERITIS.....	5R01 AM17684-03	46,992
GROSSMAN, WILLIAM.....	DIASTOLIC PROPERTIES OF THE LEFT VENTRICLE.....	1R01 HL19089-01	40,133
GROSSMAN, WILLIAM.....	REGRESSION OF CARDIAC HYPERTROPHY: MYOCARDIAL AND RENAL.....	1R01 HL19246-01	42,139
HANDIN, ROBERT I.....	ROLE OF PF-4 IN DETECTING AND PROMOTING THROMBOSIS.....	5R01 HL17513-02	32,321
HANDIN, ROBERT I.....	ROLE OF PF-4 IN DETECTING AND PROMOTING THROMBOSIS.....	5R01 HL17513-03	49,499
HASSAN, WILLIAM E, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05489-14	143,702
HOLLENBERG, NORMAN K.....	RENAL VASCULAR REACTIVITY IN THE HYPERTENSIVE PATIENT.....	2R01 HL14944-04	52,978
HOLLENBERG, NORMAN K.....	RENAL VASCULAR REACTIVITY IN THE HYPERTENSIVE PATIENT.....	5R01 HL14944-05	54,374
INGRAM, ROLAND H, JR.....	STUDY OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE.....	5R01 HL16463-03	53,016
LARSEN, PHILIP R.....	THE PHYSIOLOGICAL ROLE OF THYROXINE-BINDING PROTEIN.....	5R01 AM18616-02	57,522
MANNICK, J.....	CLINICAL AND LABORATORY STUDIES IN CELLULAR IMMUNITY.....	7R01 CA21644-01	186,592
MC FADDEN, EDWARD R, JR.....	PATHOPHYSIOLOGY OF EXERCISE-INDUCED ASTHMA.....	5R01 HL17873-02	19,842
MIRSKY, ISRAEL.....	A MATHEMATICAL APPROACH TO CARDIOVASCULAR MECHANICS.....	2R01 HL12711-07	70,508
NEER, EVA J.....	ADENYLATE CYCLASE AND THE PLASMA MEMBRANE.....	1R01 AM19277-01	56,878
POLET, HERMAN.....	THE MIXED LYMPHOCYTE CULTURE AND KIDNEY GRAFT SURVIVAL.....	5R01 AM17158-03	28,865



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
SHAEFFER, JOSEPH R.....	HEMOGLOBIN SYNTHESIS IN SICKLE CELL TRAIT INDIVIDUALS.....	7R01 AM19642-01	52,230
SMITH, THOMAS W.....	DIGITALIS: MECHANISM AND REVERSAL STUDIES.....	5R01 HL18003-02	57,087
SMITH, THOMAS W.....	DIGITALIS: MECHANISM AND REVERSAL STUDIES.....	5R01 HL18003-03	46,684
SOLOMON, HAROLD S.....	HYPERTENSION-EDUCATION MODELS TO IMPROVE ADHERENCE.....	5R25 HL18423-02	203,268
TRIER, JERRY S.....	FUNCTIONAL MORPHOLOGY OF THE ALIMENTARY TRACT.....	5R01 AM17537-03	109,875
TRIER, JERRY S.....	FUNCTIONAL MORPHOLOGY OF THE ALIMENTARY TRACT.....	5R01 AM17537-04	117,068
TRIER, JERRY S.....	METABOLISM AND CELL RENEWAL OF COLON PRECANCER & CANCER.....	5R26 CA17505-02	63,953
VATNER, STEPHEN F.....	CARDIOVASCULAR CONTROL IN NORMAL AND DISEASE STATES.....	5R01 HL15416-04	120,184
VATNER, STEPHEN F.....	MYOCARDIAL ISCHEMIA.....	5R01 HL17459-02	47,479
WILLIAMS, GORDON H.....	ANGIOTENSIN RECEPTORS.....	5R01 HL16821-02	65,436
WILLIAMS, GORDON H.....	ANGIOTENSIN RECEPTORS.....	5R01 HL16821-03	68,846
WILLIAMS, GORDON H.....	HORMONES IN HYPERTENSION.....	1R01 HL18882-01	86,227
ORGANIZATION TOTAL	37 3,771,254		
<b>AFFILIATED HOSPITALS CENTER—ROBERT BRECK BRIGHAM HOSPITAL ZIP CODE 02120</b>			
AUSTEN, K FRANK.....	IN VITRO STUDIES OF THE MECHANISM OF ANAPHYLAXIS.....	5R01 AI07722-10	199,216
AUSTEN, K FRANK.....	IMMUNOLOGIC RELEASE OF CHEMICAL MEDIATORS IN MAN.....	2P50 AI10356-06	171,859
AUSTEN, K FRANK.....	CLINICAL RESEARCH UNIT IN RHEUMATIC DISEASES.....	5P01 AM05577-15	157,770
AUSTEN, K FRANK.....	CHEMICAL MEDIATORS OF ACUTE PULMONARY DISORDERS.....	5P01 HL17382-02	147,002
AUSTEN, K FRANK.....	CHEMICAL MEDIATORS OF ACUTE PULMONARY DISORDERS.....	5P01 HL17382-03	156,766
AUSTEN, K FRANK.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05669-09	81,416
CHURCHILL, WINTHROP H, JR.....	MECHANISMS OF MACROPHAGE MEDIATED TUMOR CYTOTOXICITY.....	1R01 CA19403-01	52,703
DAVID, JOHN R.....	STUDIES ON CELLULAR HYPERSENSITIVITY.....	5R01 AI07685-11	170,251
DAVID, JOHN R.....	MACROPHAGE ACTIVATION AND CELLULAR IMMUNITY.....	5R22 AI0921-05	44,931
GOETZL, EDWARD J.....	REGULATION OF HYPERSENSITIVITY REACTIONS IN THE LUNG.....	1R01 HL19777-01	74,077
REMOLD, HEINZ G.....	MACROPHAGE INTERACTIONS WITH LYMPHOCYTE MEDIATORS.....	5R01 AI12110-03	65,828
ROCKLIN, ROSS E.....	MECHANISMS OF CELLULAR HYPERSENSITIVITY IN MAN.....	5R01 AI11729-03	58,029
SCHUR, PETER H.....	COMPLEMENT AND IMMUNE COMPLEXES IN RHEUMATIC DISEASES.....	2R01 AM11414-09A1	64,132
SCHUR, PETER H.....	COMPLEMENT AND IMMUNE COMPLEXES IN RHEUMATIC DISEASES.....	5R01 AM11414-10	70,462
SCHUR, PETER H.....	CHARACTERIZATION OF B & T LYMPHOCYTES IN LYMPHOMA.....	5R01 CA17615-02	18,409
STEINBERG, JAMES.....	CHONDROCYTE-MATRIX INTERACTIONS IN ARTHRITIC DISEASE.....	5R01 AM18268-02	55,772
ORGANIZATION TOTAL	16 1,588,623		
<b>BETH ISRAEL HOSPITAL ZIP CODE 02215</b>			
BHATNAGAR, GOPAL M.....	CONTRACTILE PROTEINS OF EPIDERMIS AND DERIVATIVES.....	1R01 AM19387-01	71,370
BING, OSCAR H.....	COMPUTER FEEDBACK STUDY OF CARDIAC MUSCLE MECHANICS.....	2R01 HL18338-02	39,209
BUTTERCASE, CAROL J.....	ORAL CONTRACEPTION AND GONORRHEA.....	1R01 AI13348-01	9,290
EPSTEIN, FRANKLIN H.....	WATER AND ELECTROLYTES IN HEALTH AND DISEASE.....	5R01 AM18078-04	110,599
EPSTEIN, FRANKLIN H.....	WATER AND ELECTROLYTES IN HEALTH AND DISEASE.....	5R01 AM18078-05	113,663
EPSTEIN, FRANKLIN H.....	GENERAL CLINICAL RESEARCH CENTER.....	7M01 RR1032-01	678,235
FIELD, MICHAEL.....	MECHANISMS REGULATING INTESTINAL FLUID TRANSPORT.....	1R01 AM18704-01	63,056
FREEDBERG, IRWIN M.....	STUDIES OF EPIDERMAL MACROMOLECULAR METABOLISM.....	5R01 AM16262-04	108,448
FROMM, DAVID G.....	GASTRIC MUCOSAL PERMEABILITY AND ION TRANSPORT.....	5R01 AM17919-02	25,623
FROMM, DAVID G.....	GASTRIC MUCOSAL PERMEABILITY AND ION TRANSPORT.....	5R01 AM17919-03	27,525
GLICKMAN, ROBERT M.....	CHYLOMICRONS-FORMATION, STRUCTURE AND FUNCTION.....	2R01 AM18911-02	67,589
GOLDMAN, PETER.....	CARCINOGEN METABOLISM BY HOST INTESTINAL BACTERIA.....	5R01 CA15260-03	57,709
INGBAR, SIDNEY H.....	NORMAL AND DISORDERED THYROID HORMONE ECONOMY.....	2R01 AM18416-02	296,942
KLEIN, LESTER A.....	RENAL FUNCTION IN SHOCK, ADRENERGIC AGENT'S EFFECTS.....	5R01 GM21855-02	26,133
PAULIN, SVEN J.....	HIGH PRECISION DENSITOMETRY OF CORONARY ANGIOGRAMS.....	1R01 HL19003-01	100,797
RABKIN, MITCHELL T.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05479-14	143,172
ROBINSON, STEPHEN H.....	ORIGIN AND FATE OF BILE PIGMENTS.....	5R01 AM09834-11	93,189
ROBINSON, STEPHEN H.....	ORIGIN AND FATE OF BILE PIGMENTS.....	5R01 AM09834-12	97,467
ROBINSON, STEPHEN H.....	FACTORS REGULATING HEMOPOIETIC CELL DIFFERENTIATION.....	5R01 AM17148-03	65,173
SALZMAN, EDWIN W.....	PROGRAM PROJECT IN THROMBOSIS AND ATHEROSCLEROSIS.....	3P01 HL11414-08S1	10,481
SALZMAN, EDWIN W.....	PROGRAM PROJECT IN THROMBOSIS AND ATHEROSCLEROSIS.....	5P01 HL11414-09	311,582
SALZMAN, EDWIN W.....	POSTOPERATIVE THROMBOEMBOLISM IN SURGICAL PATIENTS.....	5R01 HL13754-05	78,879
SALZMAN, EDWIN W.....	POSTOPERATIVE THROMBOEMBOLISM IN SURGICAL PATIENTS.....	5R01 HL13754-06	41,617
SCHNEIDER, PETER B.....	CONTROL OF PHOSPHOLIPID METABOLISM.....	5R01 AM10733-10	46,783
SCHNIPPER, LOWELL E.....	CLINICAL CANCER.....	1R25 CA19085-01	53,104
SILEN, WILLIAM.....	G I MUCOSAL BARRIER IN HEALTH AND SURGICAL DISEASE.....	5R01 AM15681-05	112,998



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
SLACK, WARNER V.	COUNSELING IN NUTRITION BY COMPUTER	1R01 LM02810-01	60,322
ZERVAS, NICHOLAS T.	TREATMENT OF POST-SURGICAL VASOCONSTRICTION	3R01 HL15365-03S1	56,555
ZERVAS, NICHOLAS T.	TREATMENT OF POST-SURGICAL VASOCONSTRICTION	2R01 HL15365-04	42,489
ZERVAS, NICHOLAS T.	TREATMENT OF POST-SURGICAL VASOCONSTRICTION	5R01 HL15365-05	122,559
ZERVAS, NICHOLAS T.	BRAIN CATECHOLAMINES IN CEREBRAL VASCULAR OCCLUSION	5R01 NS11587-02	54,759
ORGANIZATION TOTAL	31 3,187,317		
<b>BOSTON BIOMEDICAL RESEARCH INSTITUTE ZIP CODE 02114</b>			
BALAZS, ENDRE A.	THE PHYSIOLOGY AND PATHOLOGY OF THE VITREOUS	3R01 EY00223-13S2	37,478
DAVISON, PETER F.	NEUROFILAMENT PROTEIN: CHARACTERISTICS AND FUNCTION	5R01 NS11122-02	104,923
DAVISON, PETER F.	NEUROFILAMENT PROTEIN: CHARACTERISTICS AND FUNCTION	5R01 NS11122-03	103,429
ELZINGA, MARSHALL	STRUCTURE-FUNCTION STUDIES ON ACTIN AND MYOSIN	5R01 HL17464-05	101,779
ELZINGA, MARSHALL	STRUCTURE-FUNCTION STUDIES ON ACTIN AND MYOSIN	5R01 HL17464-06	96,995
FUJIMORI, EUI	BLUE-FLUORESCENT LENS PROTEINS	1R01 EY01810-01	69,035
GERGELY, JOHN	BIOCHEMISTRY OF MUSCLE CONTRACTION	5R01 HL05949-16	149,919
IKEMOTO, NORIAKI	STRUCTURE AND FUNCTION OF SARCOPLASMIC RETICULUM	2R01 AM16922-04	101,474
JACOBSON, BERNARD J.	ROLE OF HYALOCYTES IN THE VITREOUS	5R01 EY00810-03	59,799
JULIAN, FRED J.	CONTRACTILITY IN HEART AND OTHER STRIATED MUSCLES	5R01 HL16606-09	83,280
LEHRER, SHERWIN S.	FLUORESCENCE STUDIES OF MUSCLE PROTEIN INTERACTIONS	5R01 AM11677-09	67,708
PAULUS, HENRY	PEPTIDE ANTIBIOTICS AND BACTERIAL SPOULATION	7R01 GM23149-01	63,808
SANADI, D RAO	METABOLIC AND MOLECULAR CHANGES IN AGING	8P01 AG00349-05	290,280
SANADI, D RAO	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05711-06	110,916
SARKAR, SATYAPRIYA	BIOSYNTHESIS OF CARDIAC AND SKELETAL MUSCLE PROTEINS	5R01 AM13238-08	83,778
SEIDEL, JOHN C.	NUCLEOTIDE-INDUCED CHANGES OF CONFORMATION IN MYOSIN	2R01 HL15391-04	72,835
SEIDEL, JOHN C.	NUCLEOTIDE-INDUCED CHANGES OF CONFORMATION IN MYOSIN	5R01 HL15391-05	74,593
SRETER, FRANK A.	BIOCHEMICAL CHANGES IN DEVELOPING AND AGING MUSCLES	9R01 AG00262-04	112,817
SRETER, FRANK A.	BIOCHEMICAL CHANGES IN DEVELOPING AND AGING MUSCLES	5R01 AG00262-05	110,831
WRIGHT, BARBARA E.	PHYSIOLOGICAL CONTROL OF DIFFERENTIATION	5R01 AG00260-09	72,084
WRIGHT, BARBARA E.	COMPUTER ANALYSIS OF DIFFERENTIATION	5R01 AG00433-07	54,657
WRIGHT, BARBARA E.	KINETIC MODELING OF RAT LIVER AND MORRIS TUMORS	5R01 CA15567-03	88,122
ORGANIZATION TOTAL	22 2,110,540		
<b>BOSTON HEALTH AND HOSPITALS DEPARTMENT—BOSTON CITY HOSPITAL ZIP CODE 02118</b>			
BRODY, JEROME S.	ELASTIN SYNTHESIS IN COMPENSATORY LUNG GROWTH	1R01 HL18719-01	33,500
BRODY, JEROME S.	ELASTIN SYNTHESIS IN COMPENSATORY LUNG GROWTH	5R01 HL18719-02	30,804
GOTTLIEB, LEONARD S.	STUDIES OF A NEW COLONIC CANCER MARKER (ZGM)	1R26 CA18620-01	51,340
KASS, EDWARD H.	CHRONIC INFECTIONS AND THE ORIGINS OF CHRONIC DISEASE	2P01 HD03693-10	225,484
KASS, EDWARD H.	ORIGINS OF HYPERTENSION	1R01 HL19998-01	230,793
KUPCHIK, HERBERT Z.	TUMOR MARKERS IN HUMAN ASCITES	5R26 CA18466-02	57,912
REIF, ARNOLD E.	EXPERIMENTAL STUDIES ON IMMUNITY TO CANCER CELLS	5R01 CA15952-03	71,617
REIF, ARNOLD E.	EXPERIMENTAL STUDIES ON IMMUNITY TO CANCER CELLS	5R01 CA15952-04	73,228
ROMAN, STANFORD A, JR.	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	5P60 HL15157-05	511,954
ROMAN, STANFORD A, JR.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05569-12	98,394
TISHLER, PETER V.	GONOSOMAL ANEUPLOIDY IN CITY HOSPITAL POPULATIONS	5R01 GM22750-02	15,750
VAITUKAITIS, JUDITH L.	MECHANISMS MEDIATING GONADOTROPIN ACTION	1R01 HD09358-01	62,095
ZAMCHECK, NORMAN	PATHOLOGY OF THE DIGESTIVE TRACT MUCOUS MEMBRANE	5P01 CA04486-17	207,519
ORGANIZATION TOTAL	13 1,670,390		
<b>BOSTON UNIVERSITY ZIP CODE 02215</b>			
ALBERT, ARTHUR E.	SCREENING AND CERVICAL CANCER: A MATHEMATICAL MODEL	5R18 CA17807-02	47,390
ALEXANDER, EDWARD A.	HYPERTENSION, SHOCK AND EDEMA: RENAL ASPECTS	5R01 HL17458-02	99,388
ANAPOLLE, STEVEN E.	MICROVASCULAR LESIONS OF BUCCAL AND GINGIVAL TISSUE	5R01 AM18280-05	42,047
ARMSTRONG, ROBERT B.	LOCOMOTION IDLING METABOLISM & GAIT DYNAMICS	5R01 AM18123-02	52,513
BENNETT, MICHAEL	IMMUNOBIOLOGY AND TREATMENT OF VIRAL LEUKEMIA	5R01 CA15369-03	42,812
BENNETT, MICHAEL	CARDIAC ALLOGRAFTS IN AUTOLOGOUS RADIATION CHIMERAS	5R01 HL18186-02	42,857
BERMAN, HERBERT J.	THROMBOEMBOLISM IN LIVING BLOOD VESSELS	5R01 HL00902-25	85,437
BRECHER, PETER I.	MECHANISM OF ANGIOTENSIN ACTION ON TARGET TISSUES	5R01 HL14358-05	23,116
BRECHER, PETER I.	MECHANISM OF ANGIOTENSIN ACTION ON TARGET TISSUES	5R01 HL14358-06	27,570
BROITMAN, SELWYN A.	DIET MICROFLORA AND INDUCTION OF COLONIC CARCINOMA	5R26 CA16750-02	70,274
CERMAK, LAIRD S.	DEVELOPMENTAL DEFICITS IN INFORMATION PROCESSING	1R01 HD09508-01	24,635

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
CHATTORAJ, SATI C.	CORTICOSTEROIDS IN THE FETOPLACENTAL UNIT.	5R01 HD06799-03	38,301
CHOBANIAN, ARAM V.	ARTERIAL METABOLISM, DIABETES, AND ATHEROGENESIS.	5R01 HL12869-07	111,164
CHOBANIAN, ARAM V.	PATHOGENESIS AND COMPLICATIONS OF HYPERTENSION.	1P50 HL18318-01	1,103,498
CLARKE, RICHARD H.	CARCINOGEN-DNA COMPLEXES: STRUCTURE AND INTERACTIONS.	3R01 CA17922-01S1	29,850
Cohen, ALAN S.	SYNOVIAL MEMBRANE AND RELATED CONNECTIVE TISSUES.	5R01 AM04599-16	155,880
COOPERBAND, SIDNEY R.	LYMPHOCYTE PROLIFERATION INHIBITORY FACTOR.	5R01 CA12209-05	117,266
COOPERBAND, SIDNEY R.	EXPLORATORY STUDIES FOR CANCER RESEARCH.	3P20 CA13326-03S1	17,008
COOPERBAND, SIDNEY R.	EXPLORATORY STUDIES FOR CANCER RESEARCH.	2P20 CA13326-04	165,936
COOPERBAND, SIDNEY R.	A SERUM IMMUNOSUPPRESSIVE FACTOR IN CANCER.	5R01 CA15129-03	69,822
COOPERBAND, SIDNEY R.	PROGRAM PROJECT: NEW APPROACHES TO TUMOR IMMUNOTHERAPY.	5P01 CA15848-02	223,951
COOPERBAND, SIDNEY R.	MULTIDISCIPLINARY CANCER CENTER: CORE GRANT.	1P30 CA19135-01	216,152
COUSER, WILLIAM G.	IMMUNOLOGICAL MECHANISMS OF GLOMERULAR INJURY.	3R01 AM17722-02S1	12,441
COUSER, WILLIAM G.	IMMUNOLOGIC MECHANISM OF GLOMERULAR INJURY.	5R01 AM17722-03	47,418
DAMBER, THOMAS R.	THE EPIDEMIOLOGY OF STROKE.	2R01 NS09695-06	110,051
DEYKIN, DANIEL.	ROLE OF PLATELET LIPIDS IN HEMOSTASIS AND THROMBOSIS.	1R01 HL18586-01	24,397
ECKNER, ROBERT J.	BIOLOGICAL AND PHYSICAL PROPERTIES OF FRIEND VIRUS.	1R01 CA19562-01	53,852
EGDAHL, RICHARD H.	ENDOCRINE AND METABOLIC RESPONSE TO SHOCK AND TRAUMA.	1R01 GM23870-01	187,748
ESSIG, ALVIN.	OPTICAL STUDY OF MEMBRANE PERMEABILITY AND ENERGETICS.	5R01 AM17817-02	32,882
ESSIG, ALVIN.	OPTICAL STUDY OF MEMBRANE PERMEABILITY AND ENERGETICS.	5R01 AM17817-03	34,454
FEINGOLD, DAVID S.	ANTIMICROBIAL AGENTS AND THE CELL SURFACE.	5R01 AI12679-02	66,837
FEINGOLD, DAVID S.	CHEMICAL DETECTION OF NEISSERIA GONORRHOEA.	1R01 AI13185-01	39,560
FINE, RICHARD E.	ACTIN AND OTHER FILAMENTS IN THE GROWING NEURON.	2R01 NS10582-04A1	68,805
FINEBERG, SAMUEL E.	DECREASED INSULIN SENSITIVITY IN DIABETES MELLITUS.	5R01 AM16896-03	49,976
FOSTER, JUDITH A.	ELASTIN STRUCTURE, FIBROGENESIS AND DISEASE.	2R01 HL15964-04	66,846
FRANZBLAU, CARL.	STUDIES ON THE CHEMISTRY OF ELASTIN.	5R01 AM07697-13	49,343
FRANZBLAU, CARL.	LUNG ELASTIC TISSUE.	5R01 HL17415-02	20,150
FRANZBLAU, CARL.	LUNG ELASTIC TISSUE.	5R01 HL17415-03	39,440
GAENSLER, EDWARD A.	APPLIED PULMONARY PHYSIOLOGY.	5R01 HL05933-17	29,352
GAENSLER, EDWARD A.	SUPPORT FOR CENTER FOR LUNG DISEASE.	5P50 HL15063-05	424,790
GAENSLER, WALTER J.	SYNTHETIC MYCOLIC ACIDS. CORDFACTOR ANTIBODIES.	5R22 AI09308-05	44,345
GONNERMAN, WAYNE A.	CONTROL OF CONNECTIVE TISSUE SYNTHESIS IN LUNG GROWTH.	1R23 HL19583-01	43,627
GODGLASS, HAROLD.	APHASIA RESEARCH PROGRAM.	5P50 NS06209-11	204,814
GORMAN, ANTHONY L.	IONIC AND METABOLIC BASIS OF VISUAL RESPONSES.	5R01 EY01157-03	66,113
GORMAN, ANTHONY L.	THE METABOLIC REGULATION OF MEMBRANE PERMEABILITY.	5R01 NS11429-02	52,788
GORMAN, ANTHONY L.	THE METABOLIC REGULATION OF MEMBRANE PERMEABILITY.	5R01 NS11429-03	55,347
HARTMAN, STANDISH C.	ENZYMES OF GLUTAMINE METABOLISM.	5R01 CA11161-08	39,281
HECHTMAN, HERBERT B.	CARDIO-PULMONARY FAILURE FOLLOWING SHOCK AND TRAUMA.	1R01 GM23871-01	163,212
HERRMANN, ROBERT L.	PHOSPHOPROTEINS AND PHOSPHORYLATING ENZYMES IN NEOPLASIA.	5R01 CA15683-03	36,530
HINDS, JAMES W.	SERIAL SECTION ANALYSIS OF DEVELOPING MOUSE RETINA.	5R01 EY01398-02	29,169
HOLLANDER, WILLIAM.	ROLE OF THE ARTERIAL WALL IN ATHEROSCLEROSIS.	5P01 HL13262-04	669,140
HOLLANDER, WILLIAM.	ROLE OF THE ARTERIAL WALL IN ATHEROSCLEROSIS.	2P01 HL13262-05	860,484
HOYT, RICHARD F, JR.	CHARACTERIZATION OF SMALL-GRANULE CELLS IN THE LUNG.	1R01 HL19379-01	68,822
JACKSON, BENJAMIN T.	STUDIES IN EXPERIMENTAL ERYTHROBLASTOSIS FETALIS.	5R01 HD01385-11	81,419
JENKINS, C DAVID.	BEHAVIORAL FACTORS IN CARDIOVASCULAR DISEASES.	2R01 HL15399-04	110,169
JENKINS, C DAVID.	BEHAVIORAL FACTORS IN CARDIOVASCULAR DISEASES.	5R01 HL15399-05	114,582
KAGAN, HERBERT M.	PROPERTIES OF CONNECTIVE TISSUE LYSYL OXIDASE.	1R01 AM18880-01	57,152
KAMINER, BENJAMIN.	REGULATORY PROTEINS IN VERTEBRATE SMOOTH MUSCLE.	1R01 AM18207-01A1	47,309
KELMAN, ASHER D.	MOLECULAR MECHANISMS OF PLATINUM AND RUTHENIUM DRUGS.	1R01 CA18522-01	92,725
KIBRICK, SIDNEY.	DIABETES MELLITUS: ROLE OF COXSACKIEVIRUS B INFECTION.	5R01 AM17202-03	54,242
KIBRICK, SIDNEY.	IMMUNOLOGIC & BIOPHYSICAL STUDIES OF CERVICAL CARCINOMA.	5R01 CA13397-05	155,032
LAING, RONALD A.	STUDIES OF THE CORNEAL ENDOTHELIUM OF THE EYE.	2R01 EY01227-02	90,467
LAING, RONALD A.	OBJECTIVE FOCUSING FUNDUS CAMERA.	1R01 EY01636-01	31,770
LANG, FREDERICK.	NEUROTROPHIC INFLUENCES ON DEVELOPING MUSCLE.	5R01 NS11481-03	18,580
LAURSEN, RICHARD A.	STRUCTURE AND FUNCTION OF HUMAN PLASMIN.	3R01 HL15535-03S1	11,420
LAURSEN, RICHARD A.	STRUCTURE AND FUNCTION OF HUMAN PLASMIN.	2R01 HL15535-04	61,876
LEHMAN, WILLIAM J.	REGULATION OF MUSCULAR CONTRACTION: A COMPARATIVE STUDY.	5R01 AM17062-03	53,274
LEIBOWITZ, HOWARD M.	STUDIES IN CORNEAL TRANSPLANTATION.	5R01 EY00544-07	79,047
LESSELL, SIMMONS.	EXPERIMENTAL OPTIC NEUROPATHIES.	5R01 EY00013-10	74,632
LEVINSKY, NORMAN G.	HYPOTENSION, RENAL ISCHEMIA AND EFFECT OF MANNITOL.	3R01 HL18313-01S1	3,218
LEVINSKY, NORMAN G.	HYPOTENSION, RENAL ISCHEMIA AND EFFECT OF MANNITOL.	5R01 HL18313-02	134,288

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
LIANG, CHANG-SENG	METABOLIC CONTROL OF CARDIAC OUTPUT	5R01 HL17403-02	48,377
LOWENSTEIN, LEAH M.	AGING IN THE KIDNEY	5R01 AG00449-02	89,798
LOWENSTEIN, LEAH M.	A NEW CYCLE FOR AMMONIA PRODUCTION IN THE KIDNEY	3R01 AM17713-02S2	20,239
MANDEL, RICHARD	TROPOCOLLAGEN AND TROPOELASTIN UPTAKE BY LUNG CELLS	1R23 HL19594-01	44,558
MANNICK, JOHN A.	CLINICAL AND LABORATORY STUDIES IN CELLULAR IMMUNITY	9R01 CA17884-10	186,547
MATHE, ALEXANDER A.	AUTONOMIC NERVOUS SYSTEM FUNCTION IN BRONCHIAL ASTHMA	3R01 HL15677-04S1	44,358
MATOLTSY, ALEXANDER G.	CHEMISTRY OF KERATINS AND THEIR PRECURSORS	3R01 AM05924-15S1	32,290
MC LAUGHLIN, ROBERT J.	CONTRACTILE AND ELASTIC PROPERTIES OF CARDIAC MUSCLE	7R01 HL19133-01	57,250
MIRSKY, ALLAN F.	NEUROBEHAVIORAL STUDIES IN PETIT MAL EPILEPSY	5R01 NS12201-02	65,488
MONETTE, FRANCIS C.	CELL CYCLE STUDIES OF HEMATOPOIETIC PROGENITOR CELLS	5R01 AM17735-03	36,277
MOOLTEN, FREDERICK L.	ONCOLYSIS BY ANTIBODY-TOXIN CONJUGATES	5R01 CA12404-06	69,106
MOORE, MICHAEL J.	IMMUNOGENETIC REGULATION IN AUTOIMMUNE BRAIN DISEASE	5R01 NS11231-04	38,098
MOORE, MICHAEL J.	IMMUNOGENETIC REGULATION IN AUTOIMMUNE BRAIN DISEASE	5R01 NS11231-05	48,260
MORRIS, SHIRLEY M.	LEMELLAR BODIES AND OXYGEN TENSION	1R23 HL19593-01	44,558
MOZDEN, PETER J.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA18019-02	165,670
NANDY, KALIDAS	EFFECTS OF CENTROPHENOXINE ON LIPOFUSCIN PIGMENT	7R01 NS12964-01	39,099
NILES, RICHARD M.	BIOCHEMICAL FACTORS INVOLVED IN TUMOR CELL METASTASIS	1R01 CA18913-01	44,685
NILES, RICHARD M.	CYCIC NUCLEOTIDE SYSTEM OF TYPE II PNEUMONOCYTES	1R23 HL19590-01	41,630
O'BRYAN, PAUL M, JR.	EARLY RECEPTOR POTENTIALS IN SINGLE VERTEBRATE CONES	1R01 EY01812-01	58,483
O'MEARA, ANN R.	AGE-RELATED CHANGES IN CHROMATIN PROTEINS	5R01 AG00478-03	47,378
O'SULLIVAN, JOHN B.	CARDIOVASCULAR DISEASE AND EVOLVING DIABETES MELLITUS	1R01 HL20535-01	218,457
OPPENHEIM, FRANK G.	STUDIES ON PROLINE-RICH SALIVARY PROTEINS	5R01 DE03433-05	40,045
PETERS, ALAN	STRUCTURE AND ORGANIZATION OF THE CEREBRAL CORTEX	5R01 NS07016-10	73,078
POLGAR, PETER	PARTICIPATION OF CYCLIC AMP SYSTEM IN CELLULAR AGING	5R01 AG00455-02	44,350
POLTOFF, ALBERTO L.	REGULATION OF TUMOR GROWTH BY TRANSMEMBRANE POTENTIAL	5R01 CA16778-02	63,932
POLTOFF, ALBERTO L.	BIO-ASSAY OF NERVE TROPHIC SUBSTANCES	5R01 NS11588-03	20,397
RAVIOLA, GIUSEPPINA E.	FUNCTIONAL ANATOMY OF THE ANTERIOR SEGMENT OF THE EYE	5R01 EY01349-02	52,687
ROSENBERG, ISADORE N.	IODINE METABOLISM OF THE THYROID GLAND	2R01 AM02585-18	104,093
ROSENBERG, ISADORE N.	IODINE METABOLISM OF THE THYROID GLAND	5R01 AM02585-19	112,309
RUTENBURG, ALEXANDER M.	PEPTIDASE ACTIVITY & CELLULAR CAMP METABOLISM IN CANCER	5R01 CA10995-07	52,732
RYAN, N THOMAS	CHRONIC ALTERATIONS IN TISSUE METABOLISM AFTER SHOCK	5R01 GM21037-02	45,958
RYSER, HUGHES J.	PENETRATION OF MACROMOLECULES INTO MAMMALIAN CELLS	2R01 CA14551-04	79,223
SANDSON, JOHN I.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00533-08	614,263
SANDSON, JOHN I.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05380-15	261,305
SCHMID, KARL	CHEMISTRY OF HUMAN PROTEINS AND GLYCOPROTEINS	5R01 GM10374-14	121,407
SCHMIDT, JERROLD M.	LASER CONTOUR ANGIOGRAPHY IN EXPERIMENTAL GLAUCOMA	1R01 EY01788-01	104,009
SHEPRO, DAVID	CALCIUM FLUX IN PLATELET MEMBRANES	3R01 HL15503-02S1	2,696
SHEPRO, DAVID	ENDOTHELIAL CELL COMMUNICATION IN HOMEOSTASIS	5R01 HL16714-02	70,958
SHEPRO, DAVID	ENDOTHELIAL CELL COMMUNICATION IN HOMEOSTASIS	5R01 HL16714-03	39,017
SIMONS, ELIZABETH R.	THE NATURE OF THE COLLAGEN-PLATELET INTERACTION	3R01 HL15335-03S1	4,876
SIMONS, ELIZABETH R.	THE NATURE OF THE COLLAGEN-PLATELET INTERACTION	2R01 HL15335-04	41,878
SIMONS, ELIZABETH R.	INVESTIGATION OF HBS TACTOID FORMATION	5R01 HL16375-02	45,713
SIMONS, ELIZABETH R.	INVESTIGATION OF HBS TACTOID FORMATION	5R01 HL16375-03	48,879
SINEX, F MAROTT	AGING IN CONNECTIVE TISSUE, BRAIN AND AUDITORY SYSTEM	5P01 AG00001-05	227,696
SLECHTA, ROBERT F.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07043-11	46,586
SMALL, DONALD M.	PHYSICAL CHEMISTRY OF BIOLOGICALLY ACTIVE LIPIDS	9R01 HL18623-09	281,067
SMALL, DONALD M.	PHYSICAL CHEMISTRY OF BIOLOGICALLY ACTIVE LIPIDS	5R01 HL18623-10	272,827
STANLEY, H EUGENE	NORMAL AND ABNORMAL MECHANISMS OF VISION	7R01 EY02006-01	37,096
TEPLICK, STEVEN K.	INTRAVENOUS CHOLANGIOGRAPHY IN BILE DUCT OBSTRUCTION	1R01 AM19416-01	28,166
TROXLER, ROBERT F.	SYNTHESIS OF BILE PIGMENTS IN PLANTS	1R01 GM22822-01	25,919
ULLRICK, WILLIAM C.	STUDIES ON Z-DISCS FROM HEART AND SKELETAL MUSCLE	3R01 HL15462-03S1	65,795
WARR, WILLIAM B.	THE STRUCTURE AND PROJECTIONS OF THE COCHLEAR NUCLEI	2R01 NS07720-09	63,652
WEINTRAUB, LEWIS R.	IRON METABOLISM	1R01 AM18550-01	78,174
WELLS, HERBERT	ORAL CARCINOGENIC ACTIONS OF BETEL NUT AND TOBACCO	5R01 DE03565-03	78,225
WILLIAMS, LESTER F, JR.	ROLE OF THE GALL BLADDER IN PATHOGENESIS OF GALLSTONES	5R01 AM15304-05	131,908
WOTIZ, HERBERT H.	DETERMINATION OF HORMONE DEPENDENCY OF CANCER TISSUE	5R01 CA16530-02	36,962
WOTIZ, HERBERT H.	ETIOLOGIC AND PROGNOSTIC FACTORS IN BREAST CANCER	1P01 CA18226-01	232,937
WOTIZ, HERBERT H.	METABOLISM OF A LONG ACTING ORAL CONTRACEPTIVE	5R01 HD07980-02	46,872
YOUNG, DELANO V.	TRANSFORMED CELL GROWTH: SERUM PEPTIDE, LIPID FACTORS	1R01 CA20040-01	39,034
ZURIF, EDGAR B.	COMMUNICATION IN APHASIA: MECHANISMS AND REHABILITATION	5R01 NS11408-03	74,383



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
ZURIF, EDGAR B.....	COMMUNICATION IN APHASIA: MECHANISMS AND REHABILITATION.....	2R01 NS11408-04	68,653
ORGANIZATION TOTAL	132 13,090,446		
<b>CENTER FOR BLOOD RESEARCH ZIP CODE 02115</b>			
ALPER, CHESTER A.....	THE MOLECULAR BASIS FOR HEREDITARY ANGIONEUROTIC EDEMA.....	1R01 AI13626-01	68,675
ALPER, CHESTER A.....	INVESTIGATIONS OF HUMAN COMPLEMENT.....	5R01 AM13855-07	108,079
ALPER, CHESTER A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05626-10	36,960
ANTONIADIS, HARRY N.....	CHARACTERIZATION OF SERUM FACTORS INDUCING MITOSIS.....	5R01 CA15388-03	78,391
BING, DAVID H.....	SPECIFICITY OF SERUM COMPLEMENT PROTEIN C1 ESTERASE.....	5R01 AM17351-04	89,974
BING, DAVID H.....	1ST COMPONENT OF COMPLEMENT BY HUMAN CARCINOMA IN VITRO.....	5R01 CA17376-02	64,016
BING, DAVID H.....	CHARACTERIZATION OF HUMAN ALPHA-1-ANTITRYPSIN.....	5R01 HL18825-02	73,909
CHAO, FRANCIS C.....	PLATELETS, FIBRINOGEN, SOLUBLE FIBRIN INTERACTION.....	1R01 HL18935-01	65,159
REMOLD-O'DONNELL, EILEEN.....	MACROPHAGE ACTIVATION BY LYMPHOCYTE MEDIATORS.....	7R01 CA21225-01	71,842
ORGANIZATION TOTAL	9 657,005		
<b>CHILDREN'S HOSPITAL MEDICAL CENTER ZIP CODE 02115</b>			
AVERY, MARY ELLEN.....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.....	5M01 RR00128-12	651,292
BARLOW, CHARLES F.....	MENTAL RETARDATION RESEARCH PROGRAM-IMPLEMENTATION.....	5P30 HD06276-05	299,618
BARLOW, CHARLES F.....	STUDY OF DEVELOPMENTAL NEUROLOGY.....	5P01 NS09704-06	679,241
BOREL, YVES R.....	IMMUNOLOGIC TOLERANCE TO DNA IN MURINE LUPUS NEPHRITIS.....	7R01 AI13867-01	92,998
BRAUNWALD, NINA S.....	DEVELOPMENT OF PROSTHETIC HEART VALVES FOR CHILDREN.....	HL16389-03	124,851
BRESLOW, JAN L.....	IN VITRO STUDY OF LIPOPROTEINS IN VASCULAR DISEASE.....	5R01 HL15895-03	65,080
BROSEGHINI, ALBERT L.....	GENERAL RESEARCH SUPPORT GRANT.....	5S07 RR05482-14	260,374
CASTANEDA, ALDO R.....	HYPOTHERMIC ARREST: CEREBRAL MICROCIRCULATORY DAMAGE.....	5R01 HL17336-02	59,066
COLTEN, HARVEY R.....	GENETIC ASPECTS OF THE ALLERGIC RESPONSE.....	5R01 AI11419-02	35,067
COLTEN, HARVEY R.....	GENETIC ASPECTS OF THE ALLERGIC RESPONSE.....	5R01 AI11419-03	40,648
COLTEN, HARVEY R.....	BIOSYNTHESIS OF SERUM COMPLEMENT.....	5R01 AI12791-05	70,271
DAVIDSON, RICHARD L.....	GENETICS OF BUDR DEPENDENCE IN MAMMALIAN CELLS.....	5R01 CA16751-02	67,416
DAVIDSON, RICHARD L.....	GENETICS OF BUDR DEPENDENCE IN MAMMALIAN CELLS.....	5R01 CA16751-03	73,089
DREIER, THEODORE.....	PRETERM INFANT BIORHYTHMS: INTERACTION & DEVELOPMENT.....	5R01 HD06413-03	37,118
DUFFY, FRANK H.....	THE ROLE OF INHIBITION IN EXPERIMENTAL AMBLYOPIA.....	1R01 EY01901-01	95,209
ELLISON, ROBERT C.....	CHILDHOOD DETERMINANTS OF BLOOD PRESSURE.....	1R01 HL19922-01	166,200
FISCHER, EDWIN G.....	IMPAIRMENT OF CEREBRAL PERFUSION FOLLOWING ISCHEMIA.....	2R01 NS10805-02A1	23,417
FOLKMAN, MOSES J.....	ANTIANGIOGENESIS-NEW METHOD OF THERAPY OF SOLID TUMORS.....	3R01 CA14019-03S1	69,804
FRIEDMAN, PAUL A.....	PLACENTAL TRANSPORT OF VITAMIN B12.....	3R01 HD08884-01S1	5,366
FRIEDMAN, PAUL A.....	PLACENTAL TRANSPORT OF VITAMIN B12.....	5R01 HD08884-02	30,232
GABBAY, KENNETH H.....	NEUROPATHY IN DIABETES: ROLE OF SORBITOL PATHWAY.....	5R01 AM15019-05	73,740
GABBAY, KENNETH H.....	NEUROPATHY IN DIABETES: ROLE OF SORBITOL PATHWAY.....	5R01 AM15019-06	84,856
GABBAY, KENNETH H.....	BLOOD GLUCOSE, HGB A1C, AND DIABETIC VASCULAR DISEASE.....	1R01 HL20539-01	225,222
GALLOP, PAUL M.....	FIBROBLASTS AND CONNECTIVE TISSUES IN DEVELOPMENT.....	5P01 AG00376-02	177,726
GALLOP, PAUL M.....	PROTEIN STRUCTURE AND COLLAGEN MATURATION.....	5R01 AM16754-04	55,967
GERALD, PARK S.....	GENETIC AND CYTOGENETIC STUDY OF MENTAL RETARDATION.....	5P01 HD04807-07	242,497
GERALD, PARK S.....	GENETIC STUDIES OF LYSOSOMAL DISORDERS.....	5R01 HD06285-05	61,734
GLIMCHER, MELVIN J.....	THE BIOLOGY OF SKELETAL AND OTHER CONNECTIVE TISSUES.....	5P01 AM15671-06	949,780
GRAND, RICHARD J.....	DEVELOPMENT AND CONTROL OF SYNTHESIS AND SECRETION.....	5R01 AM14523-06	50,795
GRAND, RICHARD J.....	DEVELOPMENT AND CONTROL OF SYNTHESIS AND SECRETION.....	2R01 AM14523-07	86,026
GREENE, LLOYD A.....	NEUROCHEMICAL STUDIES ON CULTURED SYMPATHETIC NEURONS.....	5R01 NS11557-03	27,608
HOLTROP, MARUKE E.....	ULTRASTRUCTURAL ANALYSIS OF BONE CELL METABOLISM.....	5R01 AM17834-02	54,090
HOLTROP, MARUKE E.....	ULTRASTRUCTURAL ANALYSIS OF BONE CELL METABOLISM.....	5R01 AM17834-03	60,623
HOYER, JOHN R.....	PATHOGENESIS OF IMMUNOLOGIC RENAL DISEASE.....	1R01 AM19810-01	60,198
LA VAIL, MATTHEW M.....	CELLULAR MECHANISMS OF INHERITED RETINAL DEGENERATION.....	5R01 EY01202-04	62,388
LATT, SAMUEL A.....	PROTEIN-DNA INTERACTIONS IN HUMAN CHROMOSOMES.....	5R01 GM21121-03	69,210
LEVY, RAPHAEL H.....	INTRATHYMIC EVENTS IN T-CELL DIFFERENTIATION.....	1R01 CA20171-01	57,015
LUX, SAMUEL E, IV.....	LIPID METABOLISM OF PLASMA AND MEMBRANE LIPOPROTEINS.....	5R01 HL15963-03	91,974
LUX, SAMUEL E, IV.....	LIPID METABOLISM OF PLASMA AND MEMBRANE LIPOPROTEINS.....	5R01 HL15963-04	92,645
NADAS, ALEXANDER S.....	A MULTIDISCIPLINARY STUDY OF CONGENITAL HEART DISEASE.....	5P01 HL10436-11	604,476
NATHAN, DAVID G.....	LEUKOCYTE OXIDASE ACTIVITY & SUSCEPTIBILITY TO INFECTION.....	2R01 AI08173-09	55,885
NATHAN, DAVID G.....	LYSIS OF RED CELLS BY HEMOGLOBIN AND MEMBRANE DISEASE.....	5R01 AM15322-10	93,437
NATHAN, DAVID G.....	BIOCHEMICAL APPROACHES TO SICKLE CELL ANEMIA.....	5R01 AM15913-05	40,002
NATHAN, DAVID G.....	IRON OVERLOAD IN HOMOZYGOUS BETA THALASSEMIA.....	1R01 HL20000-01	61,556



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
NEEDLEMAN, HERBERT L.	DEVELOPMENTAL EFFECTS OF LOW LEVEL LEAD EXPOSURE	5P01 HD08945-02	288,398
PADIN, ERIC L.	MOLECULAR BASIS OF JOINT LUBRICATION	5R01 AM15216-06	106,584
RANIC, PASKO T.	NEUROGENETIC PROCESSES IN FETAL BRAIN	5R01 NS11233-04	154,784
ROBB, RICHARD M.	HISTOCHEMISTRY OF PHOSPHODIESTERASE IN THE RETINA	5R01 EY01451-02	56,913
ROSEN, FRED S.	REACTIONS AND METABOLISM OF IMMUNE PROTEINS AND CELLS	5P01 AI05877-13	274,034
ROSEN, FRED S.	IMMUNOLOGIC MECHANISMS IN RENAL DISEASES IN CHILDHOOD	2P01 AM16392-04	254,505
SCHACHNER, MELITTA	STUDIES ON NEURAL CELL SURFACE COMPONENTS	1R01 NS12659-01	68,634
SHELANSKI, MICHAEL L.	PATHOLOGY & BIOLOGY OF THE NEURONAL FIBROUS PROTEINS	5R01 NS11504-03	63,930
SIDMAN, RICHARD L.	BRAIN DEVELOPMENT IN NORMAL AND MUTANTS	5R01 NS11237-04	252,118
SIDMAN, RICHARD L.	GROWTH AND REGENERATION IN THE NERVOUS SYSTEM	1P01 NS12200-01A1	285,703
SNODGRASS, S ROBERT	ABNORMAL MOVEMENTS AND PHARMACOLOGY OF THE FOREBRAIN	5R01 NS12368-02	94,628
SPECTOR, REYNOLD	DRUG, VITAMIN AND HORMONE TRANSPORT IN SPINAL FLUID	5R01 NS12274-02	54,477
STOSSEL, THOMAS P.	PHAGOCYTOSIS: INGESTION IN PULMONARY ALVEOLAR MACROPHAGE	5R01 HL17742-02	38,825
TAEUSCH, H WILLIAM, JR	PULMONARY SURFACTANT REGULATION IN FETUS AND NEWBORN	5R01 HD08529-02	115,514
TREVES, SALVADOR	A BROMINE-77-SELENIUM-77M GENERATOR	1R01 HL18487-01	49,650
WATKINS, JOHN B.	BILE ACID METABOLISM IN INFANCY AND CHILDHOOD	5R01 HD08489-02	73,985
WOHL, MARY ELLEN B.	RESPIRATORY MECHANICS IN CHILDREN	5R01 HL15526-03	50,375
WOHL, MARY ELLEN B.	RESPIRATORY MECHANICS IN CHILDREN	5R01 HL15526-04	66,908
ORGANIZATION TOTAL	62	8,735,772	
<b>EYE RESEARCH INSTITUTE OF RETINA FOUNDATION ZIP CODE 02114</b>			
ALLANSMITH, MATHEA R.	STUDIES IN OCULAR IMMUNOLOGY	5R01 EY01552-02	122,618
BERMAN, MICHAEL B.	SERUM ANTIPROTEASES AND CORNEAL ULCERATION	3R01 EY01246-02S1	5,547
BERMAN, MICHAEL B.	REGULATION OF COLLAGENASE ACTIVITY IN ULCERATION	2R01 EY01246-03	57,670
CHAKRABARTI, BIRESWAR	ROLE OF HYALURONIC ACID IN THE VITREOUS STRUCTURE	1R01 EY01760-01	56,518
CINTRON, CHARLES	CORNEAL MACROMOLECULES AND SCAR FORMATION	5R01 EY01199-03	42,860
CONSTABLE, IAN J.	CYCLOTROPIN AND RETINOBLASTOMA	3R01 CA12180-03S1	30
DELORI, FRANCOIS C.	STUDY OF HEMODYNAMICS OF CHOROIDAL CIRCULATION	5R01 EY01556-02	39,997
DOHLMAN, CLAES H.	STUDY OF CORNEAL PHYSIOLOGY AND PATHOLOGY	5P01 EY00208-16	296,209
GRAGOUDES, EVANGELOS S.	PROTON THERAPY OF EYE TUMORS	5R01 CA17638-02	83,023
HIROSE, TATSUO	HUMAN VER AND ERG WITH FOCAL RETINAL STIMULATION	5R01 EY01259-02	51,534
HOLLY, FRANK J.	SURFACE CHEMICAL INVESTIGATION OF DRY EYE CONDITIONS	5R01 EY01381-02	44,447
MUKAI, NORITSUGU	PATHOGENESIS OF RETINOBLASTOMAS	5R01 EY01667-02	27,362
PECZON, BENIGNO D.	DIABETIC, CATARACTOUS, AND NORMAL HUMAN LENS CAPSULES	5R01 EY01564-02	42,402
POMERANTZEF, OLEG	IMPROVEMENTS IN CONTINUOUS LASER PHOTOCOAGULATION	5R01 EY01572-02	63,343
REFOJO, MIGUEL F.	SYNTHETIC HYDROPHILIC POLYMERS FOR EYE SURGERY	5R01 EY00327-11	81,023
RIVA, CHARLES E.	STUDY OF OCULAR BLOOD FLOW WITH DYE DILUTION METHOD	5R01 EY01242-03	71,396
RIVA, CHARLES E.	HUMAN RETINAL BLOOD FLOW AND LASER VELOCIMETRY	3R01 EY01303-01S1	6,988
RIVA, CHARLES E.	HUMAN RETINAL BLOOD FLOW AND LASER VELOCIMETRY	2R01 EY01303-02	35,561
SCHEPENS, CHARLES L.	STUDY OF POSTERIOR SEGMENT OF THE EYE	3P01 EY00227-14S1	44,304
SCHEPENS, CHARLES L.	EYE RESEARCH CORE SERVICES SUPPORT	1P30 EY01784-01	277,433
SCHEPENS, CHARLES L.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05527-14	102,473
SNODDERLY, D MAX, JR.	FUNCTIONAL DESCRIPTION OF VISUAL MECHANISMS	3R01 EY01520-01S1	25,000
SNODDERLY, D MAX, JR.	FUNCTIONAL DESCRIPTION OF VISUAL MECHANISMS	5R01 EY01520-02	59,036
ORGANIZATION TOTAL	23	1,636,774	
<b>FORSYTH DENTAL CENTER ZIP CODE 02115</b>			
AMDUR, BENJAMIN H.	LIPIDS OF GRAM-POSITIVE RODS OF HUMAN DENTAL PLAQUE	5R01 DE03529-04	73,675
BRUDEVOLD, FINN	CHEMISTRY OF ENAMEL SURFACE	5R01 DE02183-12	235,347
BRUDEVOLD, FINN	CHEMISTRY OF ENAMEL SURFACE	5R01 DE02183-13	246,580
EASTCOTT, ANDREW D.	IMMUNOPATHOGENICITY OF HUMAN PERIODONTOSIS BACTERIA	1R23 DE04427-01	14,515
GIBBONS, RONALD J.	MICROBIAL ECOLOGY AND ITS RELATION TO DENTAL DISEASE	5P01 DE02847-07	402,835
GIBBONS, RONALD J.	MICROBIAL ECOLOGY AND ITS RELATION TO DENTAL DISEASE	5P01 DE02847-08	423,993
GOODSON, JO M.	ROLE OF PROSTAGLANDINS IN PERIODONTAL DISEASE	7R01 DE04671-01	104,412
GROH, POUL	INHIBITORS OF MINERAL FORMATION IN SALIVA AND PLAQUE	5R01 DE03916-02	66,097
HAY, DONALD I.	TOOTH-SALIVA INTERFACE PHENOMENA AND DENTAL CARIES	5R01 DE03915-03	97,632
HEIN, JOHN W.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05483-14	65,760
HILLMAN, JEFFREY D.	MUTANT ANALYSIS OF THE ADHESION OF ORAL BACTERIA	1R01 DE04529-01	62,347
KASHKET, SHELBY	INTERACTIONS OF SALIVA PROTEINS AND BACTERIA	2R01 DE03430-04A1	74,291
KASHKET, SHELBY	FLUORIDE AND THE METABOLISM OF PLAQUE BACTERIA	5R01 DE03917-02	30,724

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
LEES, SIDNEY.....	MINERALIZATION DYNAMICS STUDY BY ULTRASOUND.....	3R01 DE03992-01S1	6,170
MOORREES, COENRAAD F.....	FACIAL AND DENTAL GROWTH IN PRE- AND POST-ADOLESCENTS.....	2R01 DE02873-08	144,976
MOORREES, COENRAAD F.....	FACIAL AND DENTAL GROWTH IN PRE- AND POST-ADOLESCENTS.....	5R01 DE02873-09	156,813
MORENO, EDGARDO C.....	TRANSPORT IN ENAMEL & SOLUBILITY OF FLUORIDATED APATITE.....	5R01 DE03187-05	137,561
SKOBE, ZIEDONIS.....	COMPARATIVE ULTRASTRUCTURE OF MAMMALIAN AMELOGENESIS.....	5R01 DE04230-02	43,001
SOCRANSKY, SIGMUND S.....	MICROBIAL COMPOSITION OF DEVELOPING DENTAL PLAQUE.....	2R01 DE03488-05	92,608
TAUBMAN, MARTIN A.....	IMMUNE PHENOMENA IN EXPERIMENTAL PERIODONTAL DISEASE.....	2R01 DE03420-04	32,217
ORGANIZATION TOTAL.....	20 2,511,554		
<b>HARVARD UNIVERSITY ZIP CODE 02138</b>			
ABELMANN, WALTER H.....	PATHOPHYSIOLOGY OF THE CIRCULATION.....	5P01 HL10539-11	280,646
ABRAMS, HERBERT L.....	DIAGNOSTIC RADIOLOGY RESEARCH CENTER.....	5P50 GM18674-05	527,810
ABRAMS, HERBERT L.....	CINEANGIOGRAPHIC STUDIES OF THE CARDIOVASCULAR SYSTEM.....	5R01 HL11668-09	71,627
ADELSTEIN, S JAMES.....	CYTOCHEMICAL AND MACROMOLECULAR RADIATION EFFECTS.....	5R01 AM04219-17	72,948
ADELSTEIN, S JAMES.....	THERAPEUTIC/TOXIC ACTION OF ELECTRON-EMITTING NUCLIDES.....	5R01 CA15523-03	54,925
AMDUR, MARY O.....	FACTORS AFFECTING IRRITANT POTENCY OF GASES & AEROSOLS.....	2R01 ES00827-04	72,024
AMOS, HAROLD.....	SUGARS, GLYCOPROTEINS: NORMAL AND MALIGNANT CELLS.....	1R01 CA19015-01	79,495
ANDERSON, EVERETT.....	STUDIES IN COMPARATIVE CYTOLOGY.....	5R01 HD06822-05	77,069
ATWOOD, DOUGLAS A.....	MAXILLOFACIAL PROSTHETIC REHABILITATION FOR CANCER.....	1R18 CA18870-01	133,683
BARGER, A CLIFFORD.....	KIDNEY FUNCTION IN EXPERIMENTAL HEART FAILURE.....	5R01 HL02493-19	109,590
BARGER, A CLIFFORD.....	KIDNEY FUNCTION IN EXPERIMENTAL HEART FAILURE.....	5R01 HL02493-20	107,248
BARGER, A CLIFFORD.....	REGULATION OF BLOOD PRESSURE.....	1R01 HL19467-01	120,117
BARGER, A CLIFFORD.....	PREPARATION OF BIOGRAPHY OF WALTER BRADFORD CANNON.....	5R01 LM01842-04	27,462
BECKWITH, JONATHAN R.....	ACTION OF STREPTOMYCIN AND RIBOSOMAL FUNCTION.....	5R01 AI12542-02	79,653
BECKWITH, JONATHAN R.....	THE CHROMOSOMAL SITES REGULATING OPERON EXPRESSION.....	5R01 GM13017-11	42,214
BECKWITH, JONATHAN R.....	THE CHROMOSOMAL SITES REGULATING OPERON EXPRESSION.....	5R01 GM13017-12	42,970
BEEUMKES, REINIER, III.....	ELECTRON PROBE STUDIES OF THE RENAL MEDULLA.....	5R01 AM18249-02	41,276
BELLVE, ANTHONY R.....	MAMMALIAN SPERMIOGENESIS: ANALYSIS OF NUCLEAR PROTEIN.....	5R01 HD08270-03	25,632
BENACERRAF, BARUJ.....	STUDIES ON IMMUNOLOGICAL RESPONSIVENESS.....	2R01 AI09920-06	226,074
BENACERRAF, BARUJ.....	STUDIES ON IMMUNOLOGICAL RESPONSIVENESS.....	5R01 AI09920-07	240,564
BENACERRAF, BARUJ.....	STUDY OF EXPERIMENTAL CANCER IMMUNOLOGY.....	5P01 CA14723-04	726,562
BENJAMIN, THOMAS L.....	GENETIC AND BIOCHEMICAL STUDIES OF MLV AND MSV.....	5R01 CA16252-03	48,545
BERSON, ELIOT.....	ELECTROPHYSIOLOGICAL STUDIES OF RETINAL DEGENERATIONS.....	5R01 EY00169-06	55,709
BIEFANG, DON C.....	BRAINSTEM PATHWAYS FOR ADDUCTION OF THE EYE.....	3R01 EY01370-01S1	22,727
BIGGERS, JOHN D.....	PROJECT IN REPRODUCTION: GAMETOGENESIS TO IMPLANTATION.....	3P01 HD06916-02S1A1	8,200
BIGGERS, JOHN D.....	STUDY OF REPRODUCTION.....	5P01 HD06916-03	309,145
BIGGERS, JOHN D.....	THE GRAAFIAN FOLLICLE AND MEIOTIC MATURATION.....	5R01 HD08909-02	62,468
BIGNAMI, AMICO.....	BRAIN SPECIFIC PROTEIN (GFA PROTEIN) IN ASTROCYTES.....	7R01 NS13034-01	28,090
BIGNAMI, AMICO.....	BRAIN SPECIFIC PROTEIN (GFA PROTEIN) IN ASTROCYTES.....	2R01 NS13034-02	86,775
BISWAS, DEBAJIT K.....	CONTROL OF GENE EXPRESSION IN PITUITARY TUMOR CELLS.....	1R01 GM22834-01	82,935
BLOUT, ELKAN R.....	PEPTIDES AND PROTEINS.....	5R01 AM07300-14	141,076
BLOUT, ELKAN R.....	SYNTHESIS OF OLIGOPEPTIDES AND CYCLIC PEPTIDES.....	5R01 AM10794-10	48,300
BLOUT, ELKAN R.....	COLLAGENASE; STRUCTURE AND BIOLOGICAL FUNCTION.....	5R01 AM15061-05	37,278
BLUMBERG, PETER M.....	TRANSFORMATION AND THE CELL SURFACE.....	1R01 CA18294-01	53,096
BLUMBERG, PETER M.....	TRANSFORMATION AND THE CELL SURFACE.....	5R01 CA18294-02	54,966
BOYER, MARKLEY H.....	'HOST ANTIGEN' PHENOMENON IN MURINE SCHISTOSOMIASIS.....	5R22 AI12317-02	31,657
BRAIN, JOSEPH D.....	RESPONSE OF ALVEOLAR MACROPHAGES TO INHALED PARTICLES.....	5R01 ES00583-06	115,045
BRAIN, JOSEPH D.....	FACTORS INFLUENCING DEPOSITION OF INHALED PARTICLES.....	5R01 ES01016-02	65,221
BRAIN, JOSEPH D.....	PULMONARY SCOR—CHRONIC DISEASES OF THE AIRWAYS.....	1P50 HL19170-01	635,507
BUCKLEY, HELEN R.....	CANDIDA ALBICANS ANTIGENS AND ANTIBODIES.....	1R01 AI13591-01	48,063
BUTLER, JAMES P.....	IMPLICATIONS OF AIRWAY GEOMETRY ON GAS EXCHANGE.....	1R23 HL19572-01	34,697
CARLSON, MARY L.....	CONSEQUENCES OF PARIETAL LESIONS.....	5R01 NS12090-02	36,191
CARRAWAY, ROBERT E.....	ISOLATION AND CHEMISTRY OF NEUROTENSIN-LIKE SUBSTANCES.....	1R01 AM19428-01	80,633
CERNY, JAN.....	REGULATORY MECHANISMS OF NEOPLASIA.....	5R01 CA14922-03	75,180
CERNY, JAN.....	REGULATORY MECHANISMS OF NEOPLASIA.....	5R01 CA14922-04	77,106
CERNY, JAN.....	IMMUNOCOMPETENT CELLS IN EXPERIMENTAL LEUKEMIA.....	5R01 CA15277-02	64,662
CHAN-PALAY, VICTORIA.....	ORGANIZATION OF THE STRIATE CORTEX.....	5R01 NS10536-05	59,927
CHERNIN, ELI.....	BIOLOGY AND BIOLOGICAL CONTROL OF SCHISTOSOMIASIS.....	5R01 AI00513-22	80,039
CHERNIN, ELI.....	ORALLY TRANSMITTED FILARIASIS: MANSON'S CONCEPTS REVIVED.....	1R01 LM02821-01	1,324
CHYLACK, LEO T, JR.....	LENS METABOLISM AND CATARACT FORMATION.....	5R01 EY01276-03	33,180

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
CLOWES, GEORGE H. JR.	FACTORS INDUCING THE ABNORMAL METABOLISM OF TRAUMA	2R01 GM19954-04	95,336
CLOWES, GEORGE H. JR.	FACTORS INDUCING THE ABNORMAL METABOLISM OF TRAUMA	5R01 GM19954-05	99,000
COHEN, JONATHAN B.	NEUROCHEMICAL BASIS OF CHOLINERGIC EXCITABILITY	5R01 NS12408-02	36,608
COHEN, PHIN	STUDIES OF HUMAN PLATELET INOSITIDES	3R01 HL13802-05S1	14,220
COONS, ALBERT H.	STUDIES ON ANTIBODY FORMATION	9R01 CA20811-21A1	104,267
COTRAN, RAMZI S.	PATHOPHYSIOLOGY OF VASCULAR INJURY	5R01 HL08251-13	87,726
COTRAN, RAMZI S.	PATHOPHYSIOLOGY OF VASCULAR INJURY	5R01 HL08251-14	92,026
DAVIS, BERNARD D.	RIBOSOME FUNCTION: ANTIBIOTIC ACTION	5R01 GM16835-08	64,023
DAWIDOWICZ, ELIEZAR A.	PHYSICAL STUDY OF LIPID MOTION IN RED CELL MEMBRANES	1R01 GM22175-01A1	33,502
DAWSON, STANLEY V.	LUNG AIRWAY PROPERTIES BY ACOUSTIC IMPULSE REFLECTION	5R01 HL17613-02	35,516
DE PAMPHILIS, MELVIN L.	TUMOR VIRUS DNA REPLICATION: A PROBE INTO ONCOGENESIS	5R01 CA15579-03	71,943
DIAMANDOPOULOS, GEORGE T.	VIRAL CARCINOGENESIS WITH SPECIAL REFERENCE TO SV40	5R01 CA08731-11	175,355
DORF, MARTIN E.	H-2-LINKED IR AND IS GENES AND THEIR PRODUCTS	1R01 AI13419-01	68,713
DRESSLER, DONALD P.	TREATMENT OF SMOKE INHALATION INJURY	1R01 HL19002-01	69,630
DYM, MARTIN	THE ROLE OF THE SERTOLI CELL IN SPERMATOGENESIS	5R01 HD06969-03	33,239
DYM, MARTIN	HORMONAL CONTROL OF THE TESTIS	1R01 HD10004-01	63,941
EBERT, ROBERT H.	NEW ENGLAND REGIONAL PRIMATE RESEARCH CENTER	5P40 RR00168-15	1,682,874
EBERT, ROBERT H.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05381-15	261,305
ENGEL, LEWIS L.	PATTERNS OF STEROID METABOLISM IN CANCER	5R01 CA01393-26	200,224
ESSEX, MYRON E.	STUDY OF ONCORNAVIRUS-ASSOCIATED CELL-MEMBRANE ANTIGENS	5R01 CA13885-03	42,031
ESSEX, MYRON E.	STUDY OF (FLV) LEUKEMIA VIRUS	1R01 CA18216-01A1	85,422
FAHIMI, HOSSEIN D.	MUSCLE: FINE STRUCTURAL BASIS OF ABNORMAL PERMEABILITY	5R01 NS08533-08	34,105
FAWCETT, DON W.	MEMBRANE STRUCTURE & CELL INTERACTIONS IN REPRODUCTION	2R01 HD02344-11	78,029
FEENEY, MARY E.	HOSPITAL LIBRARY DEVELOPMENT PROGRAM	5R01 LM01741-05	133,760
FENCIL, VLADIMIR	RESPIRATORY MECHANICS IN HEMODYNAMICS PULMONARY EDEMA	5R01 HL16256-03	21,423
FERRIS, BENJAMIN G. JR.	EFFECTS OF SO <sub>2</sub> AND RESPIRABLE PARTICULATES ON HEALTH	5R01 ES01108-02	641,939
FIELD, MICHAEL	MOLECULAR MECHANISM OF ACTION OF CHOLERA TOXIN	5R22 AI09029-08	90,505
FIELDS, BERNARD N.	GENETICS OF REOVIRUS	1R01 AI13178-01	83,474
FISCHBACH, GERALD D.	SYNAPSE FORMATION IN LOW DENSITY CELL CULTURES	2R01 NS11160-04	119,036
FITZPATRICK, THOMAS B.	SKIN REACTION TO LIGHT-NORMAL, PHOTOSENSITIVITY, CANCER	5R01 CA05003-18	114,436
FOOTE, WARREN E.	ELECTROPHYSIOLOGY OF INDOLEAMINES IN THALAMUS	5R01 NS12050-03	39,878
FRAENKEL, DAN G.	MICROBIAL MUTANTS IN CENTRAL CARBOHYDRATE METABOLISM	5R01 GM21098-03	38,220
FURSPAN, EDWIN J.	STUDIES ON CELL INTERCONNECTIONS	5R01 NS03273-15	63,656
FURSPAN, EDWIN J.	STUDIES ON CELL INTERCONNECTIONS	5R01 NS03273-16	67,329
GERSHOFF, STANLEY N.	EFFECT OF DIET ON URINARY STONE FORMATION IN ANIMALS	5R01 AM16835-03	63,604
GEYER, ROBERT P.	TOTAL BLOOD REPLACEMENT BY FLUOROCARBONS AND POLYOLS	5R01 HL15520-04	84,252
GEYER, ROBERT P.	LIPID STUDIES IN VASCULAR SMOOTH MUSCLE CELLS	5R01 HL15646-02	49,549
GEYER, ROBERT P.	ARTIFICIAL BLOOD SUBSTITUTES: O <sub>2</sub> -BINDING IRON CHELATES	5R01 HL17844-02	98,801
GITTES, RUBEN F.	HORMONAL DEPENDENCE OF PROSTATE CANCER	7R26 CA19213-01	112,336
GOLDBERG, ALFRED L.	MECHANISMS OF GROWTH AND ATROPHY OF SKELETAL MUSCLE	5R01 NS10571-04	101,375
GOLDBERG, ALFRED L.	MECHANISMS OF GROWTH AND ATROPHY OF SKELETAL MUSCLE	2R01 NS10571-05	127,529
GOLDBERG, IRVING H.	MECHANISM OF ACTION OF CYTOTOXIC DRUGS	5R01 GM12573-12	70,624
GOLDHABER, PAUL	THE MECHANISM AND TREATMENT OF PERIODONTAL DISEASE	5P01 DE02849-08	270,905
GOLDHABER, PAUL	THE MECHANISM AND TREATMENT OF PERIODONTAL DISEASE	2P01 DE02849-09	241,265
GOLDHABER, PAUL	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05318-15	61,797
GOLDSTEIN, RICHARD N.	INTERACTIONS OF SATELLITE PHAGE P4 AND ITS HELPER, P2	5R01 CA15168-03	51,476
GOODENOUGH, DANIEL A.	STRUCTURE & FUNCTION OF LIVER & HEART GAP JUNCTIONS	5R01 GM18974-05	45,117
GRANT, MARGARET M.	ALVEOLAR MACROPHAGE RESPONSES TO TOXIC PARTICLE EXPOSURE	1R23 HL19584-01	47,400
GROMAN, ERNEST V.	DEUTERIOHORMONE-PROTEIN INTERACTIONS	5R01 AM17304-02	34,428
HALL, ZACH W.	POSTSYNAPTIC PROTEINS AT THE NEUROMUSCULAR JUNCTION	5R01 NS09646-06	27,872
HAMILTON, DAVID W.	STRUCTURE AND FUNCTION OF EPIDIDYMS AND VAS DEFERENS	5R01 HD04290-06	42,484
HAY, ELIZABETH D.	ROLE OF EXTRACELLULAR MATRIX IN MORPHOGENESIS	5R01 HD00143-17	101,993
HAYES, KENNETH C.	NUTRITIONAL REQUIREMENTS OF THE VISUAL PROCESS	2R01 EY00631-06	50,536
HAYES, KENNETH C.	PRIMATES IN CARDIOVASCULAR RESEARCH	5P01 HL10098-12	258,726
HAYES, KENNETH C.	LIPID METABOLISM AND ATHEROSCLEROSIS IN PRIMATES	5R01 HL15797-03	135,960
HEGSTED, DAVID M.	NUTRITIVE VALUE OF PROTEINS	2R01 AM09520-11	82,312
HEGSTED, DAVID M.	MALNUTRITION AND BEHAVIORAL DEVELOPMENT	2R22 HD07032-03	205,532
HEGSTED, DAVID M.	SPECIFIC FATTY ACIDS AND CHOLESTEROL METABOLISM	5R01 HL12399-11	75,996
HELLMAN, SAMUEL	PROLIFERATION AND DIFFERENTIATION OF STEM CELLS	5R01 CA10941-08	73,604
HELLMAN, SAMUEL	PROLIFERATION AND DIFFERENTIATION OF STEM CELLS	5R01 CA10941-09	90,521



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
HELLMAN, SAMUEL.....	CANCER RESEARCH CENTER.....	5P01 CA12662-05	673,036
HENNEMAN, ELWOOD.....	ORGANIZATION OF THE MOTONEURON POOL AND ITS INPUTS.....	5R01 NS10857-03	58,825
HENSHAW, EDGAR C.....	INTERMEDIARY METABOLISM IN ANIMALS AND IN MAN.....	5R01 CA03151-19	40,087
HERD, JAMES A.....	CENTRAL CONTROL OF DISTRIBUTION OF ORGAN BLOOD FLOW.....	2R01 HL09154-12	41,176
HERD, JAMES A.....	CENTRAL CONTROL OF DISTRIBUTION OF ORGAN BLOOD FLOW.....	5R01 HL09154-13	59,215
HERMAN, PETER G.....	LYMPH NODE METASTASIS: ANGIOGRAPHIC & ISOTOPIC STUDIES.....	5R01 CA16019-03	50,044
HERRERA, M GUILLERMO.....	MALNUTRITION AND PSYCHOLOGIC DEVELOPMENT.....	5R01 HD06774-03	212,606
HERZFELD, JUDITH.....	NMR STUDIES OF BIOLOGICAL MEMBRANES.....	1R01 GM23316-01	35,518
HILDEBRAND, JOHN G.....	NEUROBIOLOGY OF DEVELOPMENT AND METAMORPHOSIS.....	5R01 NS11010-03	29,252
HILDEBRAND, JOHN G.....	NEUROBIOLOGY OF DEVELOPMENT AND METAMORPHOSIS.....	5R01 NS11010-04	30,903
HOLMAN, B LEONARD.....	ACUTE MYOCARDIAL INFARCT SCINTIGRAPHY.....	5R01 HL17739-02	59,220
HUANG, ALICE S.....	REPLICATION OF VESICULAR STOMATITIS VIRUS.....	5R01 AI10100-05	80,682
HUBEL, DAVID H.....	ORGANIZATION OF THE VISUAL SYSTEM.....	5R01 EY00605-17	187,201
HUTCHISON, GEORGE B.....	COOPERATIVE STUDY OF HODGKIN'S DISEASE.....	3R10 CA13607-04S1	10,812
HUTCHISON, GEORGE B.....	COOPERATIVE STUDY OF HODGKIN'S DISEASE.....	2R10 CA13607-05	57,903
IRVING, JAMES T.....	THE HISTOCHEMISTRY OF PERIODONTAL DISEASE.....	5R01 DE03793-02	79,724
ITO, SUSUMU.....	ULTRASTRUCTURE OF RICKETTSIA-HOST CELL RELATIONSHIPS.....	2R01 AI11508-04	77,033
ITO, SUSUMU.....	ULTRASTRUCTURE AND FUNCTION OF THE GASTRIC MUCOSA.....	5R01 AM07578-15	37,651
ITO, SUSUMU.....	STUDY OF DISSOCIATED AND SEPARATED GASTRIC CELL TYPES.....	5R01 AM17255-03	54,685
ITO, SUSUMU.....	STUDY OF ISOLATED AND SEPARATED GASTRIC CELL TYPES.....	2R01 AM17255-04	87,914
KARNOVSKY, MANFRED L.....	BIOCHEMICAL BASIS OF PHAGOCYTOSIS.....	5R01 AI03260-17	56,414
KARNOVSKY, MANFRED L.....	HUMORAL FACTORS AND BRAIN METABOLISM IN SLEEP.....	5R01 NS07484-09	122,542
KARNOVSKY, MANFRED L.....	HUMORAL FACTORS AND BRAIN METABOLISM IN SLEEP.....	5R01 NS07484-10	128,550
KARNOVSKY, MORRIS J.....	ULTRASTRUCTURAL IMMUNOCYTOCHEMISTRY OF CELL SURFACES.....	5R01 AI10677-05	71,101
KARNOVSKY, MORRIS J.....	THE ULTRASTRUCTURAL BASIS OF GLOMERULAR PERMEABILITY.....	2R01 AM13132-07	80,369
KARNOVSKY, MORRIS J.....	STUDIES IN ULTRASTRUCTURAL CYTOCHEMISTRY.....	5R01 HL09125-12	87,159
KARNOVSKY, MORRIS J.....	ENDOTHELIAL INJURY AND REGENERATION.....	5R01 HL17747-02	52,755
KASS, EDWARD H.....	STUDY OF PATHOGENESIS OF CHRONIC INFECTIONS.....	5P01 HD03693-08	172,773
KASS, EDWARD H.....	STUDY OF PATHOGENESIS OF CHRONIC INFECTIONS.....	5P01 HD03693-09	15,153
KATZ, DAVID H.....	CELL COOPERATION IN IMMUNE RESPONSES.....	5R01 AI10630-05	116,386
KELLEY, RITA M.....	COOPERATIVE STUDY OF CANCER OF THE BREAST.....	3R10 CA03740-17S1	11,127
KENNEDY, EUGENE P.....	METABOLISM AND FUNCTION OF COMPLEX LIPIDS.....	5R01 GM19822-17	47,526
KENNEDY, EUGENE P.....	BIOGENESIS AND FUNCTION OF MEMBRANES.....	5R01 GM22057-02	101,817
KITZ, RICHARD J.....	ANESTHESIOLOGY CENTER FOR RESEARCH AND TEACHING.....	5P50 GM15904-09	577,283
KITZMILLER, JOHN L.....	PROBLEMS OF HUMAN REPRODUCTION-IMMUNOLOGIC MECHANISMS.....	1R01 HD10026-01	60,473
KOHN, HENRY I.....	MUTAGENS, MUTATION RATES, AND THE MOUSE H TEST.....	5R01 GM18421-05	59,495
KRAVITZ, EDWARD A.....	STUDIES OF SYNAPTIC CHEMISTRY IN THE NERVOUS SYSTEM.....	2R01 NS07848-09	107,863
KRAWCZYK, WALTER S.....	CONTRACTILE PROTEINS IN NORMAL PALATE MORPHOGENESIS.....	1R01 DE04380-01	67,987
KUFFLER, STEPHEN W.....	NEUROPHYSIOLOGICAL AND NEUROCHEMICAL STUDIES.....	5P01 NS02253-17	394,357
KUSHMERICK, MARTIN J.....	MUSCLE ENERGY METABOLISM.....	5R01 AM14485-05	61,348
LAM, DOMINIC M.....	NEUROTRANSMITTERS IN THE VISUAL SYSTEM.....	5R01 EY01471-02	44,349
LAM, DOMINIC M.....	NEUROTRANSMITTERS IN THE VISUAL SYSTEM.....	5R01 EY01471-03	32,919
LECHENE, CLAUDE P.....	ELECTRONPROBE MICROANALYSIS OF NEPHRON FUNCTION.....	2R01 AM16898-04	86,740
LECHENE, CLAUDE P.....	ELECTRONPROBE MICROANALYSIS OF RED BLOOD CELLS.....	1R01 AM19449-01	44,125
LECHENE, CLAUDE P.....	BIOTECHNOLOGY RESOURCE IN ELECTRONPROBE MICROANALYSIS.....	5R01 HL15552-04	5,000
LECHENE, CLAUDE P.....	BIOTECHNOLOGY RESOURCE IN ELECTRONPROBE MICROANALYSIS.....	5R01 HL15552-05	5,000
LECHENE, CLAUDE P.....	BIOTECHNOLOGY RESOURCE IN ELECTRONPROBE MICROANALYSIS.....	5P41 RR00679-04	225,880
LECHENE, CLAUDE P.....	BIOTECHNOLOGY RESOURCE IN ELECTRONPROBE MICROANALYSIS.....	5P41 RR00679-05	262,846
LEEMAN, SUSAN E.....	PURIFICATION AND FUNCTION OF HYPOTHALAMIC PEPTIDES.....	5R01 AM16510-05	80,640
LIKHITE, VILAS V.....	CORYNEBACTERIUM PARVUM IN CANCER IMMUNOTHERAPY.....	1R01 CA18582-01	104,800
LIN, EDMUND C.....	GLYCEROL TRANSPORT AND METABOLISM IN TUMOR CELLS.....	5R01 CA16955-02	72,424
LIN, EDMUND C.....	REGULATION OF GLYCEROL TRANSPORT AND METABOLISM.....	5R01 GM11983-13	60,001
LIN, EDMUND C.....	GENETICS OF ENERGY GENERATION FROM GLYCEROPHOSPHATE.....	1R01 GM22906-01	35,888
LINCK, RICHARD W.....	ASSEMBLY AND MOTILE MECHANISMS OF CILIA AND FLAGELLA.....	5R01 GM21527-02	48,176
LITTLE, JOHN B.....	EFFECTS OF RADIATION ON STATIONARY CELLS.....	2R01 CA11751-07	124,040
LOCKE, SIMEON.....	THALAMOCORTICAL CONNECTIONS IN BRAIN.....	5R01 NS04131-14	32,819
LOWN, BERNARD.....	SUDDEN DEATH AND CARDIAC ARRHYTHMIAS.....	5R01 HL07776-13	164,892
LOWN, BERNARD.....	DETECTION AND CONTROL OF VENTRICULAR PREMATURE BEATS.....	5R01 HL18783-02	131,867
LYMAN, CHARLES P.....	HOMEOSTASIS IN MAMMALIAN HIBERNATION.....	5R01 GM16714-08	45,315
MACMAHON, BRIAN.....	CANCER EPIDEMIOLOGY AND PREVENTION RESEARCH CENTER.....	5P01 CA06373-14	362,205



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
MACMAHON, BRIAN	CANCER EPIDEMIOLOGY AND PREVENTION RESEARCH CENTER	5P01 CA06373-15	407,694
MAHEWS-ROTH, MICHELINE M.	CAROTENOID THERAPY OF PHOTOSENSITIVE PORPHYRIA	5R01 AM14545-07	56,488
MATHEWS-ROTH, MICHELINE M.	CAROTENOIDS AS ANTITUMOR AGENTS FOR SKIN TUMORS	5R01 CA18318-02	32,542
MC MAHAN, UEL J., II	STRUCTURE AND FUNCTION OF REGENERATING AXON TERMINALS	1R01 NS19222-01	53,453
MEAD, JERE	PROGRAM PROJECT IN RESPIRATORY MECHANICS	5P01 HL14580-05	563,657
MELLER, SAMUEL M.	HUMAN PALATAL DEVELOPMENT: A STUDY OF EPITHELIAL FUSION	1R01 DE04695-01	64,598
MICHELSON, EDWARD H.	ALPHA-RADIATION OF S. MANSONI SNAIL HOSTS AND MIRACIDIA	5R22 AI12644-02	50,310
MONACO, ANTHONY P.	IMMUNOSUPPRESSION AND ACTIVE ENHANCEMENT	5R01 AI08558-08	87,689
MONACO, ANTHONY P.	IMMUNODIAGNOSTIC ASSAY OF BLADDER CARCINOMA	5R26 CA17464-02	14,433
MOORE, FRANCIS D.	SURGICAL CARE: METABOLISM AND BIOENGINEERING	9P01 GM22085-18	281,688
MOORE, FRANCIS D.	SURGICAL CARE: METABOLISM AND BIORHYTHMS	5P01 GM22085-19	216,321
MOREST, DONALD K.	ANATOMY OF THE AUDITORY SYSTEM	5R01 NS06115-12	60,828
MOREST, DONALD K.	ANATOMY OF THE AUDITORY SYSTEM	2R01 NS06115-13	135,566
MORRISON, ALAN S.	INTERNATIONAL CASE-CONTROL STUDY OF BLADDER CANCER	1R26 CA18660-01	269,262
MORROW, JOHN F.	EUKARYOTIC GENE ISOLATION AND EXPRESSION	1R01 GM22383-01	97,163
MORROW, JOHN F.	EUKARYOTIC GENE ISOLATION AND EXPRESSION	5R01 GM22383-02	115,275
MOYLE, WILLIAM R.	ROLE OF CYCLIC AMP IN ADRENAL TUMOR STEROIDOGENESIS	5R01 CA15155-03	57,497
MURPHY, JOHN R.	VIRULENCE FACTORS OF CORYNEBACTERIUM DIPHTHERIAE	5R01 AI12500-02	22,215
MURPHY, SHELTON D.	FACTORS AFFECTING PESTICIDE TOXICITY	5R01 ES00084-12	73,886
MURRAY, EDWARD S.	DIAGNOSTIC SIGNIFICANCE: ANTIBODY RESPONSE TO GONORRHEA	5R01 AI12186-03	52,592
MURRAY, EDWARD S.	CAPE COD TICK, ANIMAL, HUMAN SPOTTED FEVER STUDY	1R01 AI13552-01	62,726
NICHOLS, ROGER L.	CENTER FOR STUDY OF SEXUALLY TRANSMITTED DISEASES	5P01 AI12381-03	162,329
NICHOLS, ROGER L.	TYPE-SPECIFIC ANTIGEN OF CHLAMYDIA TRACHOMATIS	5R01 EY01568-02	52,055
OFNER, PETER	ANDROGENS IN PROSTATIC AND EPIDIDYMAL CULTURE	2R01 CA13471-03A1	49,690
PALAY, SANFORD L.	THE FINE STRUCTURE OF THE NERVOUS SYSTEM	5R01 NS03659-15	118,615
PANDYA, DEEPAK N.	CONNECTIONS OF THE CEREBRAL CORTEX	5R01 NS09211-06	84,570
PATTERSON, PAUL H.	CELLULAR INTERACTION IN NEURONAL TISSUE CULTURE	5R01 NS11027-03	23,924
PATTERSON, PAUL H.	NEURONAL DEVELOPMENT & CELLULAR INTERACTION IN VITRO	2R01 NS11027-04	50,773
PERLMAN, ROBERT L.	STUDIES ON ADRENAL CATECHOLAMINE SECRETION	5R01 HL18148-02	31,328
PIERCE, CARL W.	CELL INTERACTIONS IN IMMUNE RESPONSES IN VITRO	5R01 AI09897-06	60,849
POLLARD, THOMAS D.	THE MOLECULAR MECHANISM OF CELLULAR MOTILITY	5R01 GM19654-04	38,707
POLLARD, THOMAS D.	THE MOLECULAR MECHANISM OF CELLULAR MOTILITY	5R01 GM19654-05	53,779
POTTER, DAVID D.	DEVELOPMENT OF SYMPATHETIC JUNCTIONS IN CULTURE	5R01 NS11576-03	36,524
RANDO, ROBERT R.	SUBSTRATE INDUCED IRREVERSIBLE INHIBITION OF ENZYMES	5R01 GM20366-03	28,678
RANDO, ROBERT R.	BEHAVIORAL PHARMACOLOGY AND TRANSMITTER METABOLISM	5R01 NS11550-03	29,817
RANDOLPH, MARY C.	CONSEQUENCES OF PARIETAL LESIONS	3R01 NS12090-01S1	1,966
RAVIOLA, ELIO	FREEZE-FRACTURE STUDIES ON THE RETINA	5R01 EY01344-02	45,109
REIF-LEHRER, LIANE	BIOCHEMICAL CONTROL IN THE NORMAL AND DISEASED RETINA	2R01 EY00374-09	105,898
REMOLD-O'DONNELL, EILEEN	MACROPHAGE ACTIVATION BY LYMPHOCYTE MEDIATORS	1R01 CA20814-01	60,896
RICHARDSON, CHARLES C.	STUDIES ON THE STRUCTURE AND SYNTHESIS OF DNA	2R01 AI06045-13	165,562
RYAN, KENNETH J.	STUDY OF POPULATION PROBLEMS	5P01 HD06645-05	257,428
RYAN, KENNETH J.	STEROID HORMONE METABOLISM	2R01 HD07923-04	113,930
SALHANICK, HILTON A.	MODE OF ACTION AND SYNTHESIS OF PROGESTATIONAL HORMONES	5R01 AM10081-11	68,328
SCHMIDT, SUSAN Y.	BIOCHEMICAL STUDIES OF RETINA AND PIGMENT EPITHELIUM	1R01 EY01687-01	84,704
SHAW, JAMES H.	MODIFICATION OF CARRIES POTENTIAL OF HUMAN FOODS	5R01 DE04027-02	47,748
SHULMAN, LEONARD B.	CARBON DENTAL IMPLANTS	2R01 DE03755-04	98,930
SOLOMON, ARTHUR K.	STUDIES ON RED CELL ION TRANSPORT AND LIPID BILAYERS	5R01 GM15692-09	69,761
SOLOMON, ARTHUR K.	FACTORS AFFECTING PHYSIOLOGY OF BIOLOGICAL MEMBRANES	3R01 HL14820-03S1	33,620
SOLOMON, ARTHUR K.	FACTORS AFFECTING PHYSIOLOGY OF BIOLOGICAL MEMBRANES	2R01 HL14820-04	99,898
SOLOMON, ARTHUR K.	FACTORS AFFECTING PHYSIOLOGY OF BIOLOGICAL MEMBRANES	5R01 HL14820-05	77,238
SPEIZER, FRANK E.	A PROSPECTIVE COHORT FOR RISKS IN BREAST CANCER	5R01 CA16686-02	322,020
SPEIZER, FRANK E.	A PROSPECTIVE COHORT FOR RISKS IN BREAST CANCER	5R01 CA16686-03	155,416
SPIELMAN, ANDREW	EFFECT OF HORMONOMIMETIC COMPOUNDS ON CULICIDS	5R01 AI10274-05	59,498
SPIELMAN, ANDREW	POPULATION STRUCTURE AND FEEDING HABITS OF C. PIPIENS	5R01 AI12723-02	58,389
STUART, ANN E.	NEURAL MECHANISMS IN PROCESSING VISUAL INFORMATION	2R01 EY01188-04	73,742
SYVANEN, MICHAEL	ONCOGENIC MECHANISMS: ENZYMOLOGY OF VIRAL INTEGRATION	1R01 CA18217-01	75,429
SZABO, GEORGE	ULTRASTRUCTURE AND PHYSIOLOGY OF ORAL MUCOSA	5R01 DE01766-14	97,655
TAI, PHANG-CHENG	TRANSLATION ON POLYCYSTRONIC mRNA & ANTIBIOTIC ACTION	5R01 GM22030-02	54,945
TASHJIAN, ARMEN H., JR.	HORMONES AFFECTING MINERAL METABOLISM	5R01 AM10206-10	98,446
TASHJIAN, ARMEN H., JR.	HORMONES AFFECTING MINERAL METABOLISM	5R01 AM10206-11	103,185

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
TASHJIAN, ARMEN H. JR.	DIFFERENTIATED FUNCTION IN DISPERSED CELL CULTURES	2R01 AM11011-10	195,071
TASHJIAN, ARMEN H. JR.	DIFFERENTIATED FUNCTION IN DISPERSED CELL CULTURES	5R01 AM11011-11	183,812
THENEN, SHIRLEY W.	METABOLIC ASPECTS OF OBESITY	5R01 AM02911-17	107,339
THENEN, SHIRLEY W.	METABOLIC ASPECTS OF OBESITY	5R01 AM02911-18	112,430
THENEN, SHIRLEY W.	HIGH ASCORBIC ACID INTAKE AND VITAMIN B12 NUTRITURE	1R01 AM19041-01	22,709
THENEN, SHIRLEY W.	NUTRITION AND PREGNANCY: THE FOLIC ACID REQUIREMENT	5R01 HD08353-02	25,898
THOMAS, CHARLES A. JR.	MOLECULAR CYTOGENETICS OF LAMPBRUSH CHROMOSOMES	5R01 GM21136-03	71,802
THOMAS, CHARLES A. JR.	MOLECULAR CYTOGENETICS	5R01 GM21740-02	78,298
TILNEY, NICHOLAS L.	MECHANISMS OF ALLOGRAFT REJECTION AND SURVIVAL	5R01 AI12250-02	69,899
UNANUE, EMIL R.	STUDIES ON ANTIGENIC STIMULATION	5R01 AI10091-06	101,380
VALBERG, PETER A.	INFLUENCING MACROPHAGE UPTAKE OF PARTICLES	1R23 HL19606-01	47,139
VALLEE, BERT L.	THE BIOLOGICAL FUNCTION OF METALS	5P01 GM15003-15	418,634
VENKATACHALAM, MANJERI A.	RENAL PATHOPHYSIOLOGY: NORMAL AND ALTERED STRUCTURE	2R01 AM16749-04	52,250
VILLEE, CLAUDE A.	STUDIES OF RENAL CELL CANCER	5R01 CA16854-02	79,146
VILLEE, CLAUDE A.	STUDIES OF RENAL CELL CANCER	5R01 CA16854-03	83,684
VILLEE, CLAUDE A.	RNA-MEDIATED EFFECTS OF STEROID SEX HORMONES	5R01 HD09424-02	41,001
VON LICHTENBERG, FRANZ C.	STUDIES ON SCHISTOSOMIASIS AND ON GRANULOMA FORMATION	5R22 AI02631-18	49,880
WARD, SAMUEL	GENETIC SPECIFICATION OF NEURAL STRUCTURE	5R01 GM22203-02	106,379
WARRAM, JAMES H.	STATISTICAL CENTER FOR NAT'L BLADDER CANCER PROJECT	5R26 CA15497-03	164,512
WASSARMAN, PAUL M.	TUMOR VIRUS CHROMATIN: STRUCTURE AND REPLICATION	1R01 CA20841-01	47,409
WAXMAN, STEPHEN G.	REGIONAL MORPHOLOGY OF MYELINATED AXONS	5R01 NS12307-02	44,252
WELLER, THOMAS H.	STUDY OF PATHOGENIC AGENTS USING IN VITRO TECHNIQUES	5R01 AI01023-19	132,474
WELLER, THOMAS H.	STUDY OF PATHOGENIC AGENTS USING IN VITRO TECHNIQUES	5R01 AI01023-20	111,789
WHITTENBERGER, JAMES L.	OCCUPATIONAL AND ENVIRONMENTAL HEALTH	5P30 ES00002-14	714,971
WHITTENBERGER, JAMES L.	BIOMEDICAL RESEARCH SUPPORT GRANT	5R26 RR05446-15	236,324
WIESEL, TORSTEN N.	STUDIES OF THE VISUAL SYSTEM	5R01 EY00606-12	129,981
WIESEL, TORSTEN N.	STUDIES OF THE VISUAL SYSTEM	2R01 EY00606-13	166,261
WILLIAMS, JERRY R.	DNA METABOLISM AND HUMAN AGING	5R01 AG00414-02	47,466
WILLIAMS, JERRY R.	DNA REPAIR IN CELL KILLING, AGING AND CARCINOGENESIS	5R01 CA16649-02	58,034
WILSON, RICHARD E.	IMMUNOLOGICAL PROCEDURES FOR ALLOGRAFT SURVIVAL	5P01 AI04606-12	139,040
WILSON, RICHARD E.	IMMUNOLOGICAL PROCEDURES FOR ALLOGRAFT SURVIVAL	5P01 AI04606-13	165,892
WILSON, T. HASTINGS	COMPARATIVE PHYSIOLOGY OF MEMBRANE TRANSPORT	2R01 AM05736-15	115,450
YOSHINAGA, KOJI	ONSET OF PARTURITION: RAT MODEL	1R01 HD10184-01	70,196
ZIGMOND, RICHARD E.	EXPERIENCE AND THE NEUROCHEMISTRY OF THE SYNAPSE	1R01 NS12651-01A1	79,663
ORGANIZATION TOTAL	264	29,809,635	
<b>JOSLIN DIABETES FOUNDATION ZIP CODE 02215</b>			
CAHILL, GEORGE F. JR.	PHYSIOLOGY, PATHOLOGY, AND BIOCHEMISTRY OF DIABETES	2R01 AM15191-06	234,975
CAHILL, GEORGE F. JR.	PHYSIOLOGY, PATHOLOGY, AND BIOCHEMISTRY OF DIABETES	5R01 AM15191-07	229,653
CAHILL, GEORGE F. JR.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05673-07	68,476
CHICK, WILLIAM L.	PANCREATIC ISLET AND BETA CELL STUDIES	5R01 AM15398-06	103,834
SOELDNER, JOHN S.	DIABETES—PATHOGENESIS, DETECTION, AND ORAL AGENTS	5R01 AM09748-11	113,592
SOELDNER, JOHN S.	THE DEVELOPMENT OF AN IMPLANTABLE GLUCOSE SENSOR	1R01 AM18352-01A1	281,492
SOELDNER, JOHN S.	PATHOGENESIS OF MICROANGIOPATHY IN DIABETES	5R01 EY01421-15	64,837
SPIRO, MARY J.	STUDY OF THYROGLOBULIN	5R01 AM17752-03	62,532
SPIRO, ROBERT G.	STUDY OF THE STRUCTURE OF GLYCOPROTEINS	2R01 AM17325-04	86,799
SPIRO, ROBERT G.	STUDY OF BIOSYNTHESIS OF GLYCOPROTEINS	5R01 AM17477-03	77,901
SPIRO, ROBERT G.	STUDY OF BIOSYNTHESIS OF GLYCOPROTEINS	5R01 AM17477-04	80,652
ORGANIZATION TOTAL	11	1,404,743	
<b>LAHEY CLINIC FOUNDATION ZIP CODE 02215</b>			
ELLIS, F. HENRY, JR.	RESTORATION OF PRESSURE TO HYPOTENSIVE G-E SPHINCTER	5R01 AM18192-02	39,579
HATHFIELD, PHILIP M.	ACTASCAN & ULTRASONOGRAPHY OF PANCREATIC DISEASES	1R26 CA19652-01	37,359
WATKINS, ELTON, JR.	MODIFICATION OF SIALYL INHIBITION OF IMMUNE RESPONSE	1R01 CA18938-01	58,220
ORGANIZATION TOTAL	3	135,158	
<b>MASSACHUSETTS EYE AND EAR INFIRMARY ZIP CODE 02114</b>			
ALBERT, DANIEL M.	HISTOPATHOLOGIC STUDY OF PIGMENTED OCULAR TUMORS	7R01 EY01917-01	78,115
DOHLMAN, CLAES H.	OPHTHALMIC RESEARCH CORE FACILITIES	5P30 EY01537-02	111,882
DOHLMAN, CLAES H.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05485-14	63,121

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
DONALDSON, DAVID D.....	OPHTHALMIC INSTRUMENTATION RESEARCH.....	5R01 EY00999-03	91,767
KIANG, NELSON Y.....	PHYSIOLOGICAL STUDIES OF THE AUDITORY SYSTEM.....	5R01 NS01344-19	263,236
KIANG, NELSON Y.....	BASIC AND CLINICAL STUDIES OF THE AUDITORY SYSTEM.....	1P01 NS13126-01	589,631
KIMURA, ROBERT S.....	ELECTRON MICROSCOPY OF THE INNER EAR.....	5R01 NS03932-15	71,281
MULROY, MICHAEL J.....	INTRACELLULAR RESPONSES IN LIZARD AUDITORY PAPILLA.....	5R01 NS09243-06	43,697
SCHUKNECHT, HAROLD F.....	OTOPATHOLOGY BY LIGHT MICROSCOPY.....	2R01 NS05881-11	36,760
ORGANIZATION TOTAL	9 1,349,490		
<b>MASSACHUSETTS GENERAL HOSPITAL ZIP CODE 02114</b>			
ALPERT, ELLIOT.....	STUDIES OF LIVER INJURY.....	1P01 AM19124-01	238,141
ALPERT, ELLIOT.....	IMMUNOCHEMICAL STUDIES OF GASTROINTESTINAL CANCER.....	5R01 CA12389-06	54,017
AMES, ADELBERT, III.....	CHEMISTRY AND FUNCTION IN CENTRAL NERVOUS SYSTEM.....	5R01 NS07702-13	71,689
APRILLE, JUNE R.....	DEVELOPMENT OF NEONATAL THERMOREGULATION.....	5R01 HD08600-02	48,596
AREES, EDWARD A.....	DEVELOPMENT OF OPTIC PATHWAY DURING EMBRYOGENESIS.....	5R01 EY01287-03	57,028
ATHANASOULIS, CHRISTOS A.....	BOWEL PROTECTION WITH VASOPRESSIN DURING RADIOOTHERAPY.....	1R01 AM19811-01	68,481
AVRUCH, JOSEPH.....	RED CELL CATION TRANSPORT AND CONTRACTILE FUNCTIONS.....	5R01 AM16914-03	56,728
AVRUCH, JOSEPH.....	STUDIES ON PHOSPHOPEPTIDE METABOLISM IN ADIPOCYTES.....	5R01 AM17776-02	80,943
BADEN, HOWARD P.....	STUDIES ON THE BIOSYNTHESIS OF KERATIN.....	5R01 AM06838-14	123,046
BADEN, HOWARD P.....	AN INHIBITOR OF DNA SYNTHESIS OF PLACENTAL ORIGIN.....	5R01 HD07461-03	34,062
BARLOW, JOHN S.....	COMPUTER STUDIES OF BRAIN POTENTIALS IN MAN.....	2R01 NS03752-15	113,058
BECK, WILLIAM S.....	THE METABOLISM OF NORMAL AND LEUKEMIC LEUKOCYTES.....	2R01 CA03728-19	104,889
BISWAS, CHITRA.....	MAMMALIAN COLLAGENASE IN TUMOR INVASION.....	1R01 CA19158-01	55,763
BLACK, PAUL H.....	MECHANISMS OF TRANSFORMATION BY ONCOGENIC VIRUSES.....	5R01 CA10126-10	152,063
BLACK, PAUL H.....	STUDY OF CELL SURFACE CHANGES IN VIRAL ONCOGENESIS.....	5R01 CA15889-03	86,631
BLOCH, KURT J.....	IMMUNOBIOLOGY OF PARASITISM.....	5R01 AI10129-06	35,834
BROWNELL, GORDON L.....	TRANSVERSE SECTION X-RAY CAMERA.....	5R01 CA15882-03	117,616
BROWNELL, GORDON L.....	RADIOISOTOPE DATA PROCESSING AND DISPLAY.....	5R01 GM16712-08	88,804
BUCHER, NANCY L.....	THE ROLE OF NUCLEOTIDES IN CELL PROLIFERATION.....	1R01 AM19435-01	41,565
BUCHER, NANCY L.....	CYTOPLASMIC FACTORS IN CELLULAR GROWTH.....	5R01 CA02146-23	87,101
BURKE, JOHN F.....	BURN TRAUMA CENTER.....	5P50 GM21700-02	294,760
BURTON, JAMES A.....	SYNTHESIS OF INHIBITORS FOR THE STUDY OF RENAL RENIN.....	1R01 HL19517-01	41,342
CARES, HERBERT L.....	INTRAVASCULAR MAGNETIC TECHNIQUES & THE NERVOUS SYSTEM.....	2R01 NS09349-06	65,556
CAREY, ROBERT W.....	COOPERATIVE STUDY OF ACUTE LEUKEMIA.....	5R10 CA12449-06	15,782
COGGINS, CECIL H.....	STUDY OF THE ADULT IDIOPATHIC NEPHROTIC SYNDROME.....	5R01 AM15646-05	75,290
COGGINS, CECIL H.....	STUDY OF THE ADULT IDIOPATHIC NEPHROTIC SYNDROME.....	5R01 AM15646-06	84,770
COLVIN, ROBERT B.....	CELL INTERACTION AND THE CLOTTING SYSTEM.....	1R01 CA20822-01	68,365
COOPER, JEFFREY B.....	NEW APPROACHES FOR ANESTHESIA MANAGEMENT.....	5R01 GM22023-02	69,788
CORI, CARL F.....	CELLULAR REGULATION OF ENZYME ACTIVITY.....	2R01 AM11448-09	63,964
CROWELL, ROBERT M.....	REVERSIBILITY OF FOCAL CEREBRAL ISCHEMIA.....	1R01 NS13165-01	60,951
DAGGETT, WILLARD M.....	EXTRINSIC FACTORS INFLUENCING MYOCARDIAL PERFORMANCE.....	5R01 HL12322-08	51,422
DAGGETT, WILLARD M.....	MECHANISMS IN CARDIAC PERFORMANCE.....	3R01 HL12777-06S1	33,460
DAGGETT, WILLARD M.....	MECHANISMS IN CARDIAC PERFORMANCE.....	2R01 HL12777-07	45,820
DALY, JAMES J.....	TUMOR ANTIGENS IN EXPERIMENTAL BLADDER CANCER.....	1R26 CA20042-01	57,047
DI BONA, DONALD R.....	REGULATION OF EXTRACELLULAR TRANSEPITHELIAL TRANSPORT.....	5R01 AM17372-03	51,257
DONAHOE, PATRICIA K.....	MULLERIAN INHIBITING SUBSTANCE.....	5R01 CA17393-02	62,281
DVORAK, ANN M.....	BASOPHIL/MAST CELL FUNCTION IN THE CONTROL OF CANCER.....	7R01 CA19141-01	130,985
DVORAK, HAROLD F.....	PATHOGENESIS OF CELLULAR IMMUNITY AND TOLERANCE.....	5R01 AI09529-07	54,283
DVORAK, HAROLD F.....	BASOPHILIC LEUKOCYTES IN HUMAN ALLERGIC DISEASE.....	5R01 AI10496-05	71,279
DVORAK, HAROLD F.....	BASOPHILIC LEUKOCYTES IN HUMAN ALLERGIC DISEASE.....	5R01 AI10496-06	80,606
DVORAK, HAROLD F.....	MACROPHAGES AND THE SURFACE COAT IN TUMOR DESTRUCTION.....	5R01 CA16881-02	79,011
ERBE, RICHARD W.....	FOLATES AND DNA SYNTHESIS IN TRANSFORMED CELLS.....	5R01 CA16838-02	56,161
ERBE, RICHARD W.....	FOLATE METABOLISM AND MENTAL RETARDATION.....	5R01 HD06356-05	79,812
FAHMY, NABIL R.....	HEMODYNAMICS OF BONE CEMENT DURING ORTHOPEDIC SURGERY.....	1R01 GM22835-01	42,899
FISCHER, JOSEF E.....	FALSE NEUROTRANSMITTERS AND HEPATIC COMA.....	5R01 AM15347-06	62,332
FISHER, CHARLES M.....	CLINICOPATHOLOGIC INVESTIGATION OF STROKE.....	5R01 NS05152-13	59,386
FITZPATRICK, THOMAS B.....	MALIGNANT MELANOMA CLINICAL COOPERATIVE GROUP.....	5R10 CA13651-04	150,292
FITZPATRICK, THOMAS B.....	MALIGNANT MELANOMA CLINICAL COOPERATIVE GROUP.....	5R10 CA13651-05	125,668
HABER, EDGAR.....	SEQUENCE, SHAPE, AND SPECIFICITY OF ANTIBODIES.....	5R01 AI04967-14	137,457
HABER, EDGAR.....	DIGOXIN SPECIFIC ANTIBODY IN HUMAN THERAPY.....	1P01 HL19259-01	405,161
HACKETT, THOMAS P.....	IMPACT OF EMOTION ON CORONARY ARTERIES.....	1R01 HL19567-01	69,637



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
HARRIS, WILLIAM H.	PREVENTION OF POSTOPERATIVE VENOUS THROMBI.....	1R01 HL18738-01	60,652
HERBST, ARTHUR L.	CARCINOGENIC EFFECT OF MATERNAL STILBESTROL ON OFFSPRING.....	5R01 CA13139-05	74,396
HIRSCH, MARTIN S.	IMMUNE REACTIVITY AND ONCOGENIC VIRUS INFECTIONS.....	5R01 CA12464-06	86,541
HIRSHFIELD, IRVIN N.	EFFECT OF METABOLITES ON LYSYL-TRNA SYNTHETASE FORMATION.....	5R01 GM21529-02	8,329
HOCHBERG, FRED H.	ISOLATION OF ASTROCYTOMA - SPECIFIC ANTIGENS.....	1R01 CA19336-01	60,331
HOLMES, LEWIS B.	THE EXTRACELLULAR MATRIX IN HEREDITARY LIMB MALFORMATION.....	1R01 HD09689-01	47,900
ISSELBACHER, KURT J.	INTESTINAL CELL MEMBRANES—STRUCTURE AND FUNCTION.....	5R01 AM01392-20	101,811
ISSELBACHER, KURT J.	METABOLIC STUDIES OF INTESTINAL MUCOSA.....	5R01 AM03014-18	72,828
ISSELBACHER, KURT J.	TUMOR ASSOCIATED CHANGES OF INTESTINAL CELLS.....	5P01 CA14294-03	499,921
JACOBY, LEE B.	MUTATION AND REGULATION IN NORMAL OR NEOPLASTIC CELLS.....	2R01 CA14534-04	101,013
JEANLOZ, ROGER W.	CHEMISTRY AND BIOCHEMISTRY OF BACTERIAL CELL WALL.....	2R01 AI06692-11	64,111
JEANLOZ, ROGER W.	STUDY OF GLYCOPROTEINS FROM CANCER CELLS.....	5R01 CA08418-11	82,228
JEANLOZ, ROGER W.	STUDY OF GLYCOPROTEINS FROM CANCER CELLS.....	5R01 CA08418-12	93,742
JEANLOZ, ROGER W.	GLYCOPROTEINS OF CELL SURFACE OF HUMAN BREAST CANCER.....	1R01 CA19763-01	28,299
KALKCAR, HERMAN M.	GENE ACTION, ENZYME, NUCLEOTIDE, CARBOHYDRATE PATTERNS.....	5R01 AM05507-15	49,638
KALISHER, LESTER	LOW-DOSE SCREENING TECHNIQUES FOR MAMMOGRAPHY.....	1R01 CA19622-01	73,546
KAZEMI, HOMAYOUN	CENTRAL CHEMICAL CONTROL OF VENTILATION.....	5R01 HL16925-02	68,416
KAZEMI, HOMAYOUN	CENTRAL CHEMICAL CONTROL OF VENTILATION.....	5R01 HL16925-03	74,846
KEUTMANN, HENRY T.	STRUCTURAL AND METABOLIC STUDIES OF FSH.....	5R01 HD08322-02	60,254
KORNBLITH, PAUL	INTERRELATIONSHIPS OF NORMAL AND CANCER CELLS.....	5P01 CA07368-13	628,377
KOURIDES, IONE A.	REGULATION OF ALPHA AND BETA SUBUNITS OF HUMAN TSH.....	1R01 CA18280-01	68,945
KRANE, STEPHEN M.	STUDY OF MESENCHYMAL TISSUES AND THEIR DISEASES.....	5P01 AM03564-17	844,367
KUMAR, AJIT	MESSENGER RNA METABOLISM IN MAMMALIAN CELLS.....	5R01 CA16797-02	54,479
LEAF, ALEXANDER	SUPPORT FOR METABOLIC DISEASE RESEARCH CENTER.....	5P01 AM04501-15	705,577
LEAF, ALEXANDER	CARDIOPULMONARY FUNCTION IN REMEDIABLE VASCULAR DISEASE.....	5P01 HL06664-15	646,519
LEAF, ALEXANDER	CIRCULATION AND FUNCTION OF ISOLATED PERFUSED KIDNEY.....	5R01 HL17679-02	55,823
LEAF, ALEXANDER	CIRCULATION AND FUNCTION OF ISOLATED PERFUSED KIDNEY.....	5R01 HL17679-03	61,699
LEHRICH, JAMES R.	AMYOTROPHIC LATERAL SCLEROSIS - IMMUNOVIROLOGIC MODELS.....	5R01 NS09675-05	74,101
LEHRICH, JAMES R.	AMYOTROPHIC LATERAL SCLEROSIS - IMMUNOVIROLOGIC MODELS.....	5R01 NS09675-06	83,732
LEVINE, DAVID N.	DISTURBANCES OF VISUAL PERCEPTION IN CEREBRAL DISEASE.....	1R01 NS13102-01	46,608
LIPPIELLO, LOUIS	EFFECT OF PROSTAGLANDINS ON ARTICULAR CARTILAGE.....	1R01 AM19111-01	48,985
LONG, JOHN C.	AN ANTIGEN IN HODGKIN'S DISEASE TISSUE CULTURES.....	1R01 CA19514-01	68,980
MALOOF, FARAHE	BIOCHEMISTRY AND PHARMACOLOGY OF THE THYROID.....	5R01 AM13916-05	119,041
MALOOF, FARAHE	TSH AS ALTERED IN THYROID DISEASE AND BY ESTROGENS.....	5R01 AM16791-05	61,772
MALT, RONALD A.	STUDY OF NEPHRECTOMY AT BIRTH AND DURING GROWTH.....	5R01 AM12769-11	78,809
MALT, RONALD A.	ENTERIC INTERRELATIONS IN CANCER OF THE COLON.....	5R26 CA17324-02	49,113
MANKIN, HENRY J.	NUCLEIC ACID AND PROTEIN METABOLISM IN CARTILAGE.....	5R01 AM16265-05	106,948
MANKIN, HENRY J.	BIOCHEMICAL AND METABOLIC STUDY OF CHONDROSARCOMA.....	5R01 CA15614-02	63,902
MARTIN, DONALD B.	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	2R01 AM04495-16	24,270
MARTIN, DONALD B.	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM04495-17	22,967
MASLAND, RICHARD H.	NEUROTRANSMISSION IN MAMMALIAN RETINA.....	5R01 EY01075-03	41,083
MC CLUSKEY, ROBERT T.	IMMUNOLOGIC FACTORS IN TUBULINTERSTITIAL NEPHRITIS.....	1R01 AM18729-01	109,425
MC CLUSKEY, ROBERT T.	LYMPHOCYTES IN TUMOR, CELLULAR AND AUTO-IMMUNITY.....	1R01 CA19393-01	62,885
MC CULLY, KILMER S.	CONTROL OF SPECIFICITY IN PROTEIN SYNTHESIS.....	5R01 AM15978-08	77,829
MILLER, ALEXANDER L.	CO2 AND INTERMEDIARY METABOLISM OF DEVELOPING BRAIN.....	5R01 HD09519-02	32,632
MILLER, KEITH W.	ACTION OF ANESTHETICS ON MEMBRANE IONOPHORES.....	1R01 GM22671-01A1	30,050
MILLER, KEITH W.	MEMBRANE CONCENTRATIONS OF DRUGS AND TOXIC COMPOUNDS.....	5R01 NS11600-03	27,529
NEER, ROBERT M.	ENVIRONMENTAL LIGHT CALCIFEROL AND CALCIUM HOMEOSTASIS.....	5R01 AM17459-02	71,988
ORNELLAS, EUGENE P.	CEA IN UROGENITAL CARCINOMAS.....	5R26 CA16769-03	56,171
PLATE, JANET M.	IMMUNOLOGICAL EFFECTS ON TUMOR GROWTH & REJECTION.....	5R01 CA17754-02	90,798
POLLEN, DANIEL A.	SPATIAL SELECTIVITY IN NONSTRIATE VISUAL CORTICES.....	3R01 EY00597-06S1	11,364
POLLEN, DANIEL A.	SPATIAL SELECTIVITY IN NONSTRIATE VISUAL CORTICES.....	2R01 EY00597-07	53,570
POTTS, JOHN T, JR.	HORMONAL CONTROL OF CALCIUM METABOLISM.....	5P01 AM11794-08	294,270
POTTS, JOHN T, JR.	HORMONAL CONTROL OF CALCIUM METABOLISM.....	5P01 AM11794-09	321,613
POTTS, JOHN T, JR.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5507 RR05486-14	261,305
POWELL, WILLIAM J, JR.	PHARMACOLOGIC STUDIES ON NEUROGENIC DIGITALIS EFFECTS.....	1R01 HL18657-01	72,622
PROFFITT, MAX R.	AUTOIMMUNITY AND VIRUS INDUCED LEUKEMIA.....	1R01 CA20242-01	66,365
PROUT, GEORGE R, JR.	CHEMOTHERAPY FOR PATIENTS WITH PROSTATIC CARCINOMA.....	2R26 CA15284-04	64,761
PROUT, GEORGE R, JR.	EVALUATION OF MANAGEMENT OF CARCINOMA OF THE BLADDER.....	5R26 CA15944-03	142,075
RICHARDSON, GEORGE S.	SEX STEROID RECEPTORS OF ENDOMETRIUM IN CULTURE.....	5R01 CA18678-02	94,415



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
ROBINSON, DWIGHT R.....	PROSTAGLANDINS IN RHEUMATIC DISEASES.....	1R01 AM19427-01	51,346
RUSSELL, PAUL S.....	STUDIES ON TISSUE SPECIFICITY.....	5R01 AM07055-14	81,290
RUSSELL, PAUL S.....	STUDIES BASIC TO HEART TRANSPLANTATION.....	1P01 HL18646-01	418,415
SCHUEPFLIN, ROBERT J.....	PHYSICAL AND CHEMICAL NATURE OF THE CUTANEOUS BARRIER.....	5R01 AM15461-10	74,473
SCHUEPFLIN, ROBERT J.....	PHYSICAL AND CHEMICAL NATURE OF THE CUTANEOUS BARRIER.....	2R01 AM15461-11	94,349
SCOTT, JESSE F.....	TURNOVER OF RIBOSOMAL RNA IN VIRUS TRANSFORMED CELLS.....	5R01 CA14630-04	35,359
SHARP, GEOFFREY W.....	STUDIES ON THE MECHANISM OF INSULIN RELEASE.....	5R01 AM18460-02	87,028
SHAY, JONATHAN.....	CNS OXYGEN AND/OR GLUCOSE LACK IN VITRO.....	5R01 NS12023-02	62,985
SHAY, JONATHAN.....	CNS OXYGEN AND/OR GLUCOSE LACK IN VITRO.....	5R01 NS12023-03	69,655
SHIH, VIVIAN E.....	NEW AMINO ACID DISORDERS IN CEREBRAL DISEASE.....	5R01 NS05096-13	129,479
SHIH, VIVIAN E.....	NEW AMINO ACID DISORDERS IN CEREBRAL DISEASE.....	5R01 NS05096-14	147,244
SMITH, GENE M.....	STUDIES OF ACUPUNCTURE IN DENTAL PAIN.....	5R01 DE03951-02	86,822
STOSSEL, THOMAS P.....	PHAGOCYTOSIS: INGESTION IN ALVEOLAR MACROPHAGES.....	1R01 HL19429-01	140,590
SUIT, HERMAN D.....	MODIFICATION OF TUMOR RESPONSE TO LOCAL IRRADIATION.....	2R01 CA13311-05	190,078
SUIT, HERMAN D.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	5P20 CA17784-02	189,101
SUIT, HERMAN D.....	CLINICAL TRIAL OF RADIATION THERAPY AND CORYNEBACTERIUM.....	1R01 CA19415-01	250,452
SWANN, DAVID A.....	CHEMISTRY AND BIOLOGY OF VITREOUS STRUCTURAL PROTEINS.....	5R01 EY01030-03	42,950
TAEGETMEYER, HEINRICH.....	STUDY OF ISCHEMIC HEART DISEASE.....	5P50 HL17665-02	1,053,544
TAVERAS, JUAN M.....	AN INTERDEPARTMENTAL STROKE PROGRAM.....	5P50 NS10828-03	373,686
TOOLE, BRYAN P.....	MORPHOGENETIC ROLE OF GLYCOSAMINOGLYCANS.....	5R01 DE04220-02	83,524
TRELSTAD, ROBERT L.....	EXTRACELLULAR MATRIX-BLOOD VESSEL CELL INTERACTIONS.....	1R01 HL18714-01	78,178
TRELSTAD, ROBERT L.....	EXTRACELLULAR MATRIX-BLOOD VESSEL CELL INTERACTIONS.....	5R01 HL18714-02	60,777
WALKER, W ALLAN.....	INTESTINAL UPTAKE OF MACROMOLECULES.....	5R01 AM13269-03	23,020
WEIR, GORDON C.....	MECHANISMS OF PANCREATIC GLUCAGON SECRETION.....	5R01 AM18230-02	32,678
WEISER, MILTON M.....	TUMOR-ASSOCIATED INTESTINAL CELL MEMBRANE FACTORS.....	5R01 CA16703-02	113,561
WEISMAN, AVERY D.....	SUICIDE AND OTHER COPING BEHAVIOR OF CANCER PATIENTS.....	3R18 CA14104-04S1	41,418
WINN, HENRY J.....	STUDIES IN TUMOR IMMUNOLOGY.....	5R01 CA17800-02	135,552
WINN, HENRY J.....	STUDIES IN TRANSPLANTATION IMMUNOLOGY.....	9R01 CA20044-11	116,589
WRAY, SHIRLEY H.....	DEMYELINATION AND THE OPTIC NERVE.....	5R01 NS11551-03	61,743
YOUNG, DAVID M.....	MOLECULAR STRUCTURE AND FUNCTION OF MUSCLE.....	5R01 AM09404-11	68,301
YOUNG, DAVID M.....	NERVE GROWTH FACTOR FUNCTION & SECRETION BY CANCER CELLS.....	5R01 CA17137-02	79,548
ZAPOL, WARREN M.....	MEMBRANE LUNG PERFUSION FOR ACUTE RESPIRATORY FAILURE.....	5R01 HL16154-03	45,832
ZAPOL, WARREN M.....	MEMBRANE LUNG PERFUSION FOR ACUTE RESPIRATORY FAILURE.....	5R01 HL16154-04	56,272
ORGANIZATION TOTAL	144	16,645,884	
<b>MASSACHUSETTS OFFICE OF HUMAN SERVICES—BOSTON STATE HOSPITAL ZIP CODE 02124</b>			
GRINSPOON, LESTER.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05555-14	22,427
LOCKE, SIMEON.....	AN ANATOMICAL STUDY OF CENTRAL VESTIBULAR CONNECTIONS.....	5R01 NS09732-03	34,197
LOCKE, SIMEON.....	AN ANATOMICAL STUDY OF CENTRAL VESTIBULAR CONNECTIONS.....	5R01 NS09732-04	35,366
ORGANIZATION TOTAL	3	91,990	
<b>NEW ENGLAND DEACONESS HOSPITAL ZIP CODE 02215</b>			
BLACKBURN, GEORGE L.....	NEW CONCEPTS IN PARENTERAL SPARING THERAPY.....	2R01 GM22691-02	57,407
GREENGARD, OLGA.....	THE REGULATION OF MAMMALIAN ENZYME SYNTHESIS.....	5R01 CA08676-12	98,959
HERZFELD, ANNEMARIE.....	DEVELOPMENTAL ENZYME FORMATION IN MAMMALIAN TISSUES.....	5R01 HD04532-07	45,374
KNOX, W EUGENE.....	REGULATION OF TYROSINE AND TRYPTOPHAN METABOLISM.....	5R01 AM00567-23	71,480
MC DERMOTT, WILLIAM V, JR.....	EARLY DIAGNOSIS OF CARCINOMA OF THE PANCREAS.....	1R26 CA19232-01	90,584
MC DERMOTT, WILLIAM V, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05591-12	27,979
MONACO, ANTHONY P.....	IMMUNODIAGNOSTIC ASSAY OF BLADDER CARCINOMA.....	7R26 CA20888-01	83,054
WARREN, SHIELDS.....	INDUCTION OF LEUKEMIA IN RODENTS BY RADIATION.....	5R01 CA12944-05	48,529
ORGANIZATION TOTAL	8	523,366	
<b>NEW ENGLAND MEDICAL CENTER HOSPITAL ZIP CODE 02111</b>			
AGNELLO, VINCENT.....	STUDY OF HUMAN IMMUNE COMPLEX DISEASES.....	2R01 AM16984-04	46,109
BABIOR, BERNARD M.....	THE FUNCTION OF NORMAL AND MALIGNANT PHAGOCYTIC CELLS.....	5R01 AI11827-03	41,426
BABIOR, BERNARD M.....	THE FUNCTION OF NORMAL AND MALIGNANT PHAGOCYTIC CELLS.....	2R01 AI11827-04	59,883
BABIOR, BERNARD M.....	STUDY OF COENZYME B12 AND RELATED COMPOUNDS.....	2R01 AM16589-04	63,070
BAUM, JULES L.....	HISTOCHEMISTRY OF CORNEAL DISEASE IN TISSUE CULTURE.....	5R01 EY00772-05	56,322
BAUM, JULES L.....	OCULAR PENETRATION OF ANTIBIOTICS IN A MODEL.....	5R01 EY01517-02	70,008
BAUM, JULES L.....	BIOCHEMISTRY OF NORMAL AND DYSTROPHIC CORNEAS IN CULTURE.....	1R01 EY01793-01	110,760

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
COHEN, JORDAN J.	ELECTROLYTE PHYSIOLOGY & RESPIRATORY ACID-BASE	5R01 HL15810-03	102,618
COHEN, JORDAN J.	ELECTROLYTE PHYSIOLOGY & RESPIRATORY ACID-BASE	5R01 HL15810-04	103,707
COHN, HERBERT E.	FETAL CARDIOVASCULAR RESPONSE TO ASPHYXIA	5R01 HD07681-03	45,475
DATTA, SYAMAL K.	MURINE LEUKEMIA VIRUSES IN NEW ZEALAND MICE	1R01 CA19575-01	45,863
DESFORGES, JANE	COMPUTER ASSISTED EVALUATION OF PATIENTS WITH CANCER	1R18 CA19122-01	106,619
DWYER, JOHANNA T.	VEGETARIAN CHILDREN—GROWTH, HEALTH, NUTRITIONAL STATUS	2R01 HD08958-03	49,754
FANBURG, BARRY L.	LUNG METABOLISM—ENZYMES IN THE PULMONARY CIRCULATION	2R01 HL14456-04	69,912
FANBURG, BARRY L.	LUNG METABOLISM—ENZYMES IN THE PULMONARY CIRCULATION	5R01 HL14456-05	90,592
FURIE, BARBARA C.	METAL-DEPENDENT COMPLEX FORMATION IN BLOOD COAGULATION	3R01 HL18834-01S1	1,011
FURIE, BARBARA C.	METAL-DEPENDENT COMPLEX FORMATION IN BLOOD COAGULATION	5R01 HL18834-02	35,626
GENNARI, F. JOHN	INTRARENAL CONTROL OF SODIUM BALANCE	5R01 AM18446-02	77,565
KAPLAN, MARSHALL M.	ENZYME REGULATION IN LIVER DISEASE	3R01 AM10571-09S1	12,754
KAPLAN, MARSHALL M.	ENZYME REGULATION IN LIVER DISEASE	2R01 AM10571-10	59,289
LEVINE, HERBERT J.	CARDIODYNAMICS AND METABOLISM OF CONGESTIVE FAILURE	2R01 HL07139-15	82,231
NECHELES, THOMAS F.	COMPUTER ASSISTED CLASSIFICATION OF ACUTE LEUKEMIA	5R01 CA15125-03	80,940
NEURATH, PETER W.	COMPUTER ASSISTED DECISION MAKING IN RADIO THERAPY	5R01 CA17365-02	54,464
NEURATH, PETER W.	AUTOMATIC METAPHASE CELL LOCATION SYSTEM DEVELOPMENT	1R01 GM22965-01	115,668
NEURATH, PETER W.	QUANTITATIVE HUMAN CHROMOSOME STUDY AIDED BY COMPUTER	5R01 HD02860-09	61,406
ONDERDONK, ANDREW B.	EXPERIMENTAL MODEL FOR ULCERATIVE COLITIS	5R01 AM18767-02	55,473
PLAUT, ANDREW G.	PROTEOLYTIC MECHANISMS IN HUMAN COLON CONTENTS	2R01 AM17194-04	44,667
POLSKY-CYNKIN, ROSEMARY	IMMUNOLOGIC STUDIES OF ANGIOTENSIN I CONVERTING ENZYME	1R23 HL19627-01	37,470
RABEN, MAURICE S.	ACTION AND CLINICAL EVALUATION OF GROWTH HORMONE	5R01 AM01567-20	58,766
RABEN, MAURICE S.	HUMORAL AND METABOLIC ASPECTS OF CARDIAC FUNCTION	3R01 HL06924-13S1	1,459
RABEN, MAURICE S.	HUMORAL AND METABOLIC ASPECTS OF CARDIAC FUNCTION	2R01 HL06924-14	46,168
RABEN, MAURICE S.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05598-11	172,503
REICHLIN, SEYMOUR	NEURAL CONTROL MECHANISMS OF METABOLIC FUNCTIONS	5R01 AM16684-05	115,535
REICHLIN, SEYMOUR	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	2M01 RR00054-15	759,088
SCHWARTZ, BERNARD	RESPONSE OF OCULAR PRESSURE TO CORTICOSTEROIDS	5R01 EY00024-08	84,949
SCHWARTZ, BERNARD	CHANGES IN THE OPTIC DISC IN PATIENTS WITH GLAUCOMA	5R01 EY00936-03	73,373
SCHWARTZ, ROBERT S.	IMMUNOSUPPRESSION	5R01 AM07937-13	110,347
SCHWARTZ, ROBERT S.	STUDY OF SYSTEMIC LUPUS ERYTHEMATOSUS	5R01 AM09351-11	203,886
SCHWARTZ, ROBERT S.	TRANSPLANTATION DISEASES AND LEUKEMIA	5R01 CA10018-10	116,799
SCHWARTZ, ROBERT S.	EXPERIMENTAL MODEL OF MALIGNANT LYMPHOMA	2R01 CA10018-11	152,065
SCHWARTZ, WILLIAM B.	REGULATION OF ELECTROLYTE AND ACID-BASE EQUILIBRIUM	5R01 HL00759-26	120,887
SCHWARTZ, WILLIAM B.	REGULATION OF ELECTROLYTE AND ACID-BASE EQUILIBRIUM	5R01 HL00759-27	126,078
SOKOL, SAMUEL	ERG AND VECP AS INDICES OF PHOTOPIC DYSFUNCTION	5R01 EY00926-03	21,459
WALLACH, DONALD F.	PROBLEMS OF MEMBRANE BIOLOGY AND ONCOGENESIS	5R01 CA13061-05	73,408
ORGANIZATION TOTAL	44	4,017,452	
<b>NORTHEASTERN UNIVERSITY ZIP CODE 02115</b>			
ARMINGTON, JOHN C.	STIMULUS ALTERNATION AND VISUAL POTENTIALS	5R01 EY00589-09	54,692
DAVIS, MICHAEL A.	SYNTHESIS OF NOVEL 75SE PANCREATIC IMAGING AGENTS	1R01 CA19898-01	60,475
FINE, SAMUEL	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07143-05	24,442
HALPERN, ARTHUR M.	ALKALOIDS AND PROTOALKALOIDS: PHOTOPHYSICAL PROPERTIES	5R01 GM22698-02	26,441
KARGER, BARRY L.	STUDIES IN HIGH PERFORMANCE LIQUID CHROMATOGRAPHY	2R01 GM15847-07	57,056
KARGER, BARRY L.	STUDIES IN HIGH PERFORMANCE LIQUID CHROMATOGRAPHY	5R01 GM15847-08	53,021
MAHUT, HELEN S.	HIPPOCAMPUS: A NEUROPSYCHOLOGICAL DEVELOPMENTAL STUDY	5R01 HD08135-03	41,416
QUICK, JAMES E.	A SYNTHETIC SCHEME FOR THE LYTHRACEAE ALKALOIDS	5R01 NS12007-02	34,987
RAFFAUF, ROBERT F.	INVESTIGATION OF NEW PLANT ANTITUMOR COMPOUNDS	2R01 CA13001-03A1	51,009
RAFFAUF, ROBERT F.	INVESTIGATION OF NEW PLANT ANTITUMOR COMPOUNDS	5R01 CA13001-04	41,198
SIDMAN, MURRAY	READING, CROSSMODAL TRANSFER, AND STIMULUS CONTROL	5R01 HD07075-03	35,486
SOLOWAY, ALBERT H.	CHEMOIMMUNOTHERAPEUTIC AGENTS FOR CANCER	5R01 CA15684-02	38,319
SOLOWAY, ALBERT H.	CHEMOIMMUNOTHERAPEUTIC AGENTS FOR CANCER	5R01 CA15684-03	36,578
VOUROS, PAUL	MASS SPECTROMETRY OF BIOLOGICALLY SIGNIFICANT COMPOUNDS	1R01 GM22787-01	37,705
WEISS, KARL	LASER RADIATION IN PHOTOCHEMISTRY AND PHOTOBIOLOGY	5R01 ES00376-13	37,990
ORGANIZATION TOTAL	15	630,815	
<b>SIDNEY FARBER CANCER INSTITUTE ZIP CODE 02115</b>			
BENZ, WENDY C.	EBV DNA SYNTHESIS IN TRANSFORMED LYMPHOCYTES	1R01 CA19235-01	38,450
CANTOR, HARVEY I.	T CELL SUBPOPULATIONS IN TRANSPLANTATION IMMUNITY	5R01 AI12184-02	64,604

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
CANTOR, HARVEY I.....	IMMUNOBIOLOGY OF LY0 T CELL SUBCLASSES.....	1R01 AI13600-01	100,976
CHAYKOVSKY, MICHAEL.....	NEW FOLATE ANTAGONISTS IN CANCER CHEMOTHERAPY.....	1R01 CA17718-01A1	51,634
COOPER, GEOFFREY M.....	INFECTIOUS DNA FOR ENDOGENOUS RNA TUMOR VIRUS GENES.....	1R01 CA18689-01	57,730
FRECHETTE, ALFRED L.....	CANCER CONTROL DEVELOPMENTAL GRANT.....	5R18 CA16408-02	688,630
FREI, EMIL, III.....	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE).....	5P30 CA06516-13	3,055,528
FREI, EMIL, III.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17979-02	130,713
FREI, EMIL, III.....	CLINICAL CANCER RESEARCH CENTER.....	1P01 CA19589-01	1,470,021
FREI, EMIL, III.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05526-14	75,887
GANU-KRISHAN, AWTAR.....	CELL KINETICS AND CANCER CHEMOTHERAPY.....	1R01 CA20008-01	32,390
HASELTINE, WILLIAM A.....	REPLICATION OF RNA TUMOR VIRUSES.....	1R01 CA19341-01	75,690
ISRAEL, MERVYN.....	PREPARATION OF ADRIAMYCIN ANALOGS AND DERIVATIVES.....	5R01 CA17263-02	101,971
JAFFE, NORMAN.....	STUDIES OF LONG-TERM SURVIVORS OF CHILDHOOD CANCER.....	1R18 CA18429-01	165,963
JAFFE, NORMAN.....	STUDIES OF LONG-TERM SURVIVORS OF CHILDHOOD CANCER.....	5R18 CA18429-02	88,250
JAFFE, NORMAN.....	EFFECTS OF PRECONCEPTION AND IN UTERO IMMUNOSUPPRESSION.....	1R01 CA19171-01	50,280
LAZARUS, HERBERT.....	CYSTINE AUXOTROPHY IN HUMAN MALIGNANCY—IMPLICATIONS.....	1R01 CA19126-01	80,312
LIVINGSTON, DAVID M.....	FUNCTION OF TUMOR VIRUS SPECIFIC NON-VIRION PROTEINS.....	5R01 CA15751-02	55,375
MAYER, ROBERT J.....	BEDSIDE APPROACH TO THE ETIOLOGY OF CANCER.....	1R01 CA19727-01	48,700
MODEST, EDWARD J.....	BIOCHEMICAL PHARMACOLOGY OF NEW ACTINOMYCIN D ANALOGS.....	5R01 CA17409-02	85,709
MODEST, EDWARD J.....	BIOCHEMICAL PHARMACOLOGY OF A NEW ADRIAMYCIN ANALOG.....	1R01 CA19118-01	102,401
NATHAN, DAVID G.....	A PROGRAM FOR INVESTIGATION OF CHILDHOOD LEUKEMIA.....	1P01 CA18662-01	400,323
NATHAN, DAVID G.....	A PROGRAM FOR INVESTIGATION OF CHILDHOOD LEUKEMIA.....	5P01 CA18662-02	438,004
PARDEE, ARTHUR B.....	REGULATION OF CELLULAR SYNTHESIS AND ACTIVITIES.....	5R01 CA18612-02	84,825
PARDEE, ARTHUR B.....	GORDON RESEARCH CONFERENCE ON CANCER, 1976.....	1R13 CA19813-01	10,775
PARDEE, ARTHUR B.....	DRUG RESISTANCE ASSAY OF NEOPLASTIC TRANSFORMATION.....	1R01 CA19949-01	59,670
REINISCH, CAROL L.....	SV 40 POTENTIATION OF IMMUNE RESPONSIVENESS TO TUMORS.....	5R01 CA15679-03	61,653
ROSENBERG, ROBERT D.....	HYPERCOAGULABILITY AND ASSAYS FOR ITS DETECTION.....	7R01 HL19131-01	145,078
ROSENBERG, ROBERT D.....	HYPERCOAGULABILITY AND ASSAYS FOR ITS DETECTION.....	5R01 HL19131-02	153,415
SAGER, RUTH.....	CYTOPLASMIC GENETIC CONTROL SYSTEMS.....	7R01 GM22874-01	89,829
SAGER, RUTH.....	CYTOPLASMIC GENETIC CONTROL SYSTEMS.....	2R01 GM22874-02	115,340
SAMY, T S.....	PHARMACOLOGY OF ANTITUMOR PROTEIN NEOCARZINOSTATIN.....	5R01 CA17305-02	80,322
SCHLOSSMAN, STUART F.....	STUDY OF ISOLATION AND GENETIC CONTROL OF IMMUNOCYTES.....	5R01 AI12069-03	154,580
SCHLOSSMAN, STUART F.....	RENOVATION OF SMALL ANIMAL RESOURCE FACILITIES.....	1P40 RR00999-01	191,639
SLAYTER, HENRY S.....	ELECTRON MICROSCOPY OF MACROMOLECULAR SYSTEMS.....	5R01 GM14237-10	76,286
UREN, JACK R.....	ENZYMATIC CYST(E)INE DEPLETION THERAPY OF CANCER.....	1R01 CA18917-01	60,969
WILLIAMS, R MICHAEL.....	GENETIC CONTROL OF TUMOR RESISTANCE AND IMMUNITY.....	1R01 CA19791-01	49,640
YANKEE, RONALD A.....	LEUKEMIA CENTER (PLATELET) PROGRAM.....	5R01 CA08855-10	66,748
YANKEE, RONALD A.....	LEUKEMIA CENTER (PLATELET) PROGRAM.....	5R01 CA08855-11	50,220
YANKEE, RONALD A.....	AUTOLOGOUS STEM CELL RECONSTITUTION IN CANCER THERAPY.....	1R01 CA18412-01	118,795
YERGANIAN, GEORGE.....	INBRED DWARF HAMSTERS FOR BIOMEDICAL RESEARCH.....	5R01 CA12365-05	105,932
YERGANIAN, GEORGE.....	CHROMOSOME MUTAGENESIS AND CARCINOGENIC POTENTIATION.....	5R01 ES00731-02	39,932
YUNIS, EDMOND J.....	IMMUNOLOGICAL ASPECTS OF AGING.....	1R01 CA21084-01	49,028
YUNIS, EDMOND J.....	IMMUNOLOGIC FACTORS IN SPONTANEOUS MAMMARY CARCINOMA.....	7R01 CA21672-01	54,768
ORGANIZATION TOTAL	44	9,278,985	
<b>ST. ELIZABETH'S HOSPITAL OF BOSTON ZIP CODE 02135</b>			
BRAVERMAN, LEWIS E.....	REGULATION OF THYROID FUNCTION, T4 AND T3 KINETICS.....	5R01 AM18919-02	87,432
BRAVERMAN, LEWIS E.....	REGULATION OF THYROID FUNCTION, T4 AND T3 KINETICS.....	5R01 AM18919-03	85,204
EBBE, SHIRLEY N.....	KINETICS OF MEGAKARYOCYTE AND PLATELET TURNOVER.....	5R01 AM08263-13	84,330
EBBE, SHIRLEY N.....	REGULATION OF HEMOPOIESIS.....	5R01 HL07542-14	159,589
EBBE, SHIRLEY N.....	REGULATION OF HEMOPOIESIS.....	5R01 HL07542-15	166,496
EBBE, SHIRLEY N.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05587-08	31,175
MILLER, MARILYN E.....	DISSOCIATION CURVE AND ERTHROPOIETIN PRODUCTION.....	5R01 HL16217-03	59,506
ORGANIZATION TOTAL	7	673,732	
<b>ST. MARGARET'S HOSPITAL FOR WOMEN ZIP CODE 02125</b>			
MITCHELL, GEORGE W, JR.....	HOST-PARASITE RELATIONSHIPS IN PREGNANCY.....	5R01 HD01805-11	50,484
SBARRA, ANTHONY J.....	EFFECTS OF X-IRRADIATION ON THE PHAGOCYTOTIC RESPONSE.....	5R01 CA15670-02	70,712
ORGANIZATION TOTAL	2	121,196	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>TUFTS UNIVERSITY</b> ZIP CODE 02111			
BLOOMQUIST, EUNICE I.....	SMOOTH MUSCLE OF RESISTANCE VESSELS IN HYPERTENSION .....	1R01 HL19012-01	53,997
BORYSENKO, JOAN Z.....	CONTROL OF SURFACE PHENOMENA IN VIRAL TRANSFORMATION .....	5R01 CA17328-02	39,016
BORYSENKO, MYRIN.....	COMPARATIVE IMMUNOBIOLOGY .....	9R01 CA20093-04	39,026
BOYD, DANA H.....	FUNCTION OF STRUCTURES INVOLVED IN TRANSCRIPTION .....	5R01 GM22170-02	52,115
BRAWERMAN, GEORGE.....	THE ROLE OF NUCLEIC ACIDS IN CELL DIFFERENTIATION .....	5R01 GM17973-06	52,726
BRAWERMAN, GEORGE.....	THE ROLE OF NUCLEIC ACIDS IN CELL DIFFERENTIATION .....	2R01 GM17973-07	79,855
CATHOU, RENATA E.....	COMFORMATION AND STRUCTURAL DYNAMICS OF ANTIBODIES .....	5R01 AI10115-06	38,413
CAVAZOS, LAURO F.....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05382-15	182,364
COHEN, JONATHAN.....	ASSAY OF TISSUE REACTION TO IMPLANTED MATERIALS .....	5R01 AM18591-04	76,929
COOPER, AMIEL G.....	STRUCTURE AND SYNTHESIS OF LEUKEMIC PLASMA MEMBRANES .....	5R01 AI12875-02	83,976
COOPER, AMIEL G.....	ROLE OF SURFACE AND SHED GLYCOPROTEIN IN METASTASIS .....	1R01 CA19987-01	46,645
DRYSDALE, JAMES W.....	FERRITIN SYNTHESIS IN NORMAL AND MALIGNANT CELLS .....	5R01 AM16781-04	60,799
DRYSDALE, JAMES W.....	MAMMALIAN ISO-FERRITINS—STRUCTURE AND METABOLISM .....	5R01 AM17775-03	33,945
DRYSDALE, JAMES W.....	CARCINO-FETAL HUMAN ISO-FERRITINS .....	5R01 CA16309-02	49,764
EL-BERMANI, AL-WALID I.....	STUDIES ON THE INNERVATION OF THE LUNG .....	7R01 HL20548-01	37,955
FINE, JACOB.....	ROLE OF THE PLATELET IN ENDOTOXEMIA.....	1R01 HL19174-01	61,314
FISHMAN, WILLIAM H.....	CARCINOEMBRYONIC PROTEINS & NEOPLASTIC TRANSFORMATION .....	5P01 CA12924-05	659,422
FISHMAN, WILLIAM H.....	FUNDAMENTAL ENZYMOLOGIC APPLIED TO ONCOLOGY .....	5R01 CA13332-05	123,039
FISHMAN, WILLIAM H.....	CONFERENCE; GENE EXPRESSION, DEVELOPMENT AND NEOPLASIA .....	1R13 CA19146-01	22,200
FORGIONE, ALBERT G.....	STUDY OF METHODS TO CONTROL BRUXISM.....	5R23 DE03968-03	11,544
GOLDBERG, EDWARD B.....	GENETIC CONTENT AND RECOMBINATION OF DNA FRAGMENTS .....	5R01 GM13511-11	66,025
GUREWICH, VICTOR.....	PATHOGENESIS OF PULMONARY THROMBOEMBOLIC DISEASE .....	5R01 HL09203-12	102,224
HUSAIN, SYED S.....	INVESTIGATION OF TISSUE SULFHYDRYL PROTEINASES .....	5R01 GM20680-03	21,921
JACOBSON, STANLEY.....	SITES OF CALLOSAL, THALAMIC, AND ASSOCIATIONAL SYNAPSES .....	5R01 NS07666-09	29,435
KISLIUK, ROY L.....	FOLATE ENZYMES, COENZYMES, AND ANALOGS.....	5R01 CA10914-08	61,866
LESKOWITZ, SIDNEY.....	CELLULAR ASPECTS OF TOLERANCE & DELAYED HYPERSENSITIVITY.....	5R01 AI10895-05	97,314
LESKOWITZ, SIDNEY.....	MECHANISMS OF IMMUNOLOGIC INJURY TO TUMORS.....	5R01 CA17220-02	70,717
LIN, CHI-WEI.....	HISTAMINASE AS A CANDIDATE CARCINOPLACENTAL ISOENZYME.....	5R01 CA17194-02	42,173
LIN, CHI-WEI.....	BETA-GLUCURONIDASE TRANSPORT & MOLECULAR MODIFICATION.....	1R01 GM21755-01A1	60,975
MAUTNER, HENRY G.....	STUDIES OF POTENTIAL ANTICANCER AGENTS.....	5R01 CA12186-06	38,410
MAUTNER, HENRY G.....	STUDIES OF SOME BIOCHEMICAL ASPECTS OF NERVE FUNCTION.....	5R01 NS09608-07	40,704
MERK, FREDERICK B.....	ULTRASTRUCTURE OF EXPERIMENTAL TUMOR CELL SURFACES.....	5R01 CA16377-02	51,430
NAJJAR, VICTOR A.....	TISSUE ENZYMES AND PLASMA PROTEINS.....	5R01 AI09116-08	96,502
NATHANSON, LARRY.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17983-02	129,730
O'HARE, KAREN H.....	THE LUNG SURFACTANT SYSTEM: CONTROL MECHANISMS.....	2R01 HL15316-04	63,594
O'HARE, KAREN H.....	THE LUNG SURFACTANT SYSTEM: CONTROL MECHANISMS.....	5R01 HL15316-05	67,398
OFNER, PETER.....	PROSTATIC DIFFERENTIATION AND SEX HORMONE METABOLISM.....	5R01 CA15776-02	74,388
PARK, JAMES T.....	CHEMISTRY AND BIOSYNTHESIS OF MICROBIAL CELL WALLS.....	5R01 AI05090-15	85,965
PARK, JAMES T.....	CHEMISTRY AND BIOSYNTHESIS OF MICROBIAL CELL WALLS.....	5R01 AI05090-16	84,214
PLANTE, LAURENCE T.....	DEUTERIUM AND 13C LABELED ENZYMES AND ANTIFOLATES.....	1R01 CA20539-01	39,341
RESNICK, ROBERT H.....	DISTAL SPLENORENAL VS PORTALSYSTEMIC ANASTOMOSIS.....	5R01 AM18702-02	51,036
SCHAECHTER, MOSELO.....	PHYSIOLOGICAL STUDIES OF BACTERIAL GROWTH.....	5R01 AI05103-13	38,697
SCHAECHTER, MOSELO.....	BACTERIAL CELL MEMBRANE ROLE IN GROWTH AND CELL DIVISION.....	5R01 AI09465-07	61,112
SCHMIDT, GERHARD.....	METABOLIC STUDIES WITH PLASMALOGENS AND SPHINGOLIPIDS.....	5R01 NS11250-03	20,514
SILBERT, JEREMIAH E.....	METABOLISM OF MUCOPOLYSACCHARIDES.....	2R01 AM08816-12	46,757
SOMNENSHEIN, ABRAHAM L.....	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION.....	2R01 GM19168-05	56,364
SOMNENSHEIN, CARLOS.....	MECHANISM OF HORMONE ACTION ON TARGET CELLS IN CULTURE.....	3R01 CA13410-03S1	23,981
SOMNENSHEIN, CARLOS.....	MECHANISM OF HORMONE ACTION ON TARGET CELLS IN CULTURE.....	2R01 CA13410-04	63,910
STEARNS, NORMAN S.....	DOCUMENTED READING FOR IMPROVED PATIENT CARE.....	1R01 LM02543-01	78,842
STEARNS, NORMAN S.....	DOCUMENTED READING FOR IMPROVED PATIENT CARE.....	5R01 LM02543-02	91,523
STOLBACH, LEO L.....	COOPERATIVE STUDY OF ONCOLOGY.....	5R10 CA07190-14	133,850
TECCE, JOSEPH J.....	NEUROPSYCHOLOGICAL STUDIES OF ATTENTION AND AGING.....	1R01 AG00515-01	94,754
TERRES, GERONIMO, JR.....	THE CONTROL OF IMMUNITY IN MICE TO L1210/MTX LEUKEMIA.....	5R01 CA14409-04	43,456
TEVETHIA, SATVIR S.....	BIOLOGY OF SV-40 SPECIFIC TRANSPLANTATION ANTIGEN.....	5R01 CA14939-04	121,749
VAAGE, JAN.....	IMMUNOTHERAPY OF MAMMARY TUMORS.....	5R01 CA15960-03	72,122
VAAGE, JAN.....	IMMUNOTHERAPY OF MAMMARY TUMORS.....	5R01 CA15960-04	73,996
VAAGE, JAN.....	IN VITRO ASSAY OF TUMOR IMMUNITY.....	5R01 CA16039-03	36,557
VAAGE, JAN.....	RADIATION EFFECTS ON ESTABLISHED TUMOR IMMUNITY.....	5R01 CA16683-02	56,271



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
WOLFE, HUBERT J.	C-CELL HYPERPLASIA AND THYROID MEDULIARY CARCINOMA	5R01 CA17389-02	68,547
WORTIS, HENRY H.	NEOPLASIA IN NUDE (ATHYMIC) MICE	5R01 CA16172-02	80,245
WRIGHT, ANDREW	STRUCTURE AND FUNCTION OF THE CELL MEMBRANE	2R01 GM15837-09	51,681
ORGANIZATION TOTAL	61 4,495,334		
<b>TUFTS-NEW ENGLAND MEDICAL CENTER ZIP CODE 02111</b>			
MUNZENRIDER, JOHN E.	RADIOTHERAPY ONCOLOGY CENTER	2P01 CA12178-06	474,499
NEURATH, PETER W.	T & B CELL IMAGE QUANTITATION AND RADIATION THERAPY	1R01 CA18742-01	91,916
ORGANIZATION TOTAL	2 566,415		
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 02135</b>			
THURM, RICHARD H.	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	5R01 HL10717-10	48,895
ORGANIZATION TOTAL	1 48,895		
<b>UNIVERSITY HOSPITAL ZIP CODE 02118</b>			
COFFMAN, JAY D.	ANTILIPEMIC REGIMES IN PERIPHERAL ARTERIOSCLEROSIS	5R01 HL13654-05	44,380
COFFMAN, JAY D.	ANTILIPEMIC REGIMES IN PERIPHERAL ARTERIOSCLEROSIS	2R01 HL13654-06	50,563
COFFMAN, JAY D.	PERIPHERAL CIRCULATORY STATUS IN MYOCARDIAL INFARCT	5R01 HL14350-04	28,126
COFFMAN, JAY D.	FINGERTIP BLOOD FLOW IN NORMALS AND RAYNAUD'S DISEASE	1R01 HL18465-01	21,848
COFFMAN, JAY D.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05487-14	145,830
GOODMAN, MICHAEL N.	METABOLIC ADAPTATION TO STARVATION: AN ANIMAL MODEL	1R01 AM19469-01	70,642
HARRIS, LAURAN D.	SPHINCTER STRENGTH-ITS MEASUREMENT AND CONTROL	3R01 AM11907-08S1	4,487
HARRIS, LAURAN D.	CONTROL OF SPHINCTER STRENGTH	2R01 AM11907-09A1	60,093
HOLLANDER, WILLIAM	DRUG TREATMENT OF ATHEROSCLEROSIS	5R01 HL16437-03	43,139
HOOD, WILLIAM B.	HYPERTENSION, SHOCK AND CIRCULATORY FAILURE	5P01 HL07299-15	394,739
KRAMSCH, DIETER M.	PRIMATE MODEL FOR CORONARY HEART DISEASE	5R01 HL15512-04	51,451
KRAMSCH, DIETER M.	EXERCISE AND CORONARY ATHEROSCLEROTIC HEART DISEASE	5R01 HL18060-02	97,701
LANGE, YVONNE	CHOLESTEROL DISTRIBUTION IN ERYTHROCYTE MEMBRANES	1R01 HL20303-01	46,290
MC CABE, WILLIAM R.	DEFENSE MECHANISMS IN GRAM-NEGATIVE BACTEREMIA	5R01 AI09584-07	47,369
MC CABE, WILLIAM R.	BIOLOGY AND IMMUNOLOGY OF GRAM-NEGATIVE BACILLI	2R01 AI11116-04	95,337
MC CABE, WILLIAM R.	BIOLOGY AND IMMUNOLOGY OF GRAM-NEGATIVE BACILLI	5R01 AI11116-05	102,941
MELBY, JAMES C.	SUPPORT FOR CLINICAL METABOLIC RESEARCH UNIT	5P01 AM08657-12	276,104
MELBY, JAMES C.	MECHANISMS REGULATING ADRENOCORTICAL SECRETION	5R01 AM12027-09	101,194
O'HERN, JANE S.	BIOCHEMICAL AND PHYSIOLOGIC RESPONSE TO TRAUMA	5P50 GM17366-06	256,434
ROMANUL, FLAVIU C.	HISTOCHEMICAL STUDIES OF NEURAL INFLUENCES ON MUSCLE	5R01 NS11190-03	41,622
RUDERMAN, NEIL B.	GLUCOSE AND AMINO ACID METABOLISM IN SKELETAL MUSCLE	7R01 AM19514-01	95,540
STRAUS, MARC J.	COOPERATIVE STUDY OF ONCOLOGY	3R10 CA11109-07S1	20,040
STRAUS, MARC J.	COOPERATIVE STUDY OF ONCOLOGY	2R10 CA11109-08	80,159
STRAUS, MARC J.	CELLULAR KINETICS OF CLINICAL CANCER CHEMOTHERAPY	1P01 CA18837-01	234,678
STRAUSS, JOHN S.	EVALUATION OF PATHOGENIC FACTORS IN ACNE VULGARIS	5R01 AM07388-14	40,888
YABLON, ISADORE G.	THE CAUSE OF JOINT HOMOGRAFT FAILURE	5R01 AM17730-02	66,039
ORGANIZATION TOTAL	26 2,517,634		
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS AT BOSTON ZIP CODE 02125</b>			
ANSELME, JEAN-PIERRE L.	STUDY OF SYNTHESIS OF N-AZIDAMINES	5R01 GM13689-10	32,066
MARGULIS, THOMAS N.	STRUCTURE OF COLCHICINE RELATED ANTIMITOTIC DRUGS	5R01 CA17436-02	39,266
ORGANIZATION TOTAL	2 71,332		
<b>VETERANS ADMINISTRATION OUTPATIENT CLINIC ZIP CODE 02108</b>			
FOZARD, JAMES L.	MENTAL PERFORMANCE AND AGING	5R01 AG00467-02	66,518
ORGANIZATION TOTAL	1 66,518		
<b>CAMBRIDGE</b>			
<b>BAY BIOCHEMICAL RESEARCH ZIP CODE 02138</b>			
BLOUT, ELKAN R.	POLYPEPTIDE MARINE TOXINS	5R01 HL16886-02	68,804
ORGANIZATION TOTAL	1 68,804		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>BIO-RESEARCH INSTITUTE</b>	<b>ZIP CODE 02141</b>		
HOMBURGER, FREDDY	NEW ANIMAL MODELS OF CHEMICAL CARCINOGENESIS	5R01 CA13232-05	160,288
HOMBURGER, FREDDY	COLONIC CANCER IN INBRED SYRIAN HAMSTERS	5R26 CA15425-03	63,585
HOMBURGER, FREDDY	INBRED LINES AND MUTANT STOCKS OF THE SYRIAN HAMSTER	1P40 RR01033-01	66,934
HOMBURGER, FREDDY	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05525-14	25,236
ORGANIZATION TOTAL	4	316,043	
<b>CHARLES STARK DRAPER LABORATORY</b>	<b>ZIP CODE 02139</b>		
DEW, BROCK S.	AUTOMATIC CYTOLOGY INSTRUMENTATION DEVELOPMENT	5R01 GM21817-03	93,531
ORGANIZATION TOTAL	1	93,531	
<b>HARVARD UNIVERSITY</b>	<b>ZIP CODE 02138</b>		
BLOCH, KONRAD E.	BIOSYNTHESIS AND FUNCTION OF LIPIDS	5R01 HL02477-20	181,274
BLOCH, KONRAD E.	BIOSYNTHESIS AND FUNCTION OF LIPIDS	5R01 HL02477-21	189,383
BOGORAD, LAWRENCE	MOLECULAR MECHANISMS OF INTRACELLULAR INTEGRATION	5R01 GM20470-04	72,977
BRANTON, DANIEL	ORGANIZATION OF NORMAL AND TRANSFORMED CELL MEMBRANES	5R01 GM20396-04	111,221
BRANTON, DANIEL	MOLECULAR STUDIES OF RED BLOOD CELL SPECTRIN	5R01 HL17411-02	16,996
COREY, ELIAS J.	ANTITUMOR/ANTIBIOTIC SUBSTANCES: SYNTHESIS & CHEMISTRY	5R01 CA16421-02	265,040
COREY, ELIAS J.	COMPUTER-ASSISTED ANALYSIS OF CHEMICAL SYNTHESIS	2R01 GM18519-06	166,799
CROMPTON, ALFRED W.	CONTROL AND VARIATION IN MASTICATION IN MAMMALS	5R01 DE03219-08	32,692
CROMPTON, ALFRED W.	CONTROL AND VARIATION IN MASTICATION IN MAMMALS	5R01 DE03219-09	32,192
DOTY, PAUL M.	CHROMATIN, SPECIAL GENES AND RNA IN DEVELOPMENT	5R01 HD01229-25	212,087
DOWLING, JOHN E.	ANATOMICAL ORGANIZATION OF THE VISUAL SYSTEM	5R01 EY00811-05	48,117
DOWLING, JOHN E.	FUNCTIONAL ORGANIZATION OF VERTEBRATE VISUAL SYSTEMS	5R01 DE03219-06	66,506
DRESSLER, DAVID H.	MOLECULAR MECHANISMS IN DNA REPLICATION	5R01 GM17088-07	78,626
ELGIN, SARAH C.	NONHISTONE CHROMOSOMAL PROTEINS	5R01 GM20779-03	42,004
GILBERT, WALTER	ROLE OF RIBONUCLEIC ACID IN PROTEIN SYNTHESIS	5R01 GM09541-15	235,708
GILBERT, WALTER	INTERACTION OF PROTEINS WITH DNA	5R01 GM21514-02	55,022
GILL, D MICHAEL	MECHANISM OF ACTION OF CHOLERA TOXIN	1R22 AI13083-01	103,760
GOETHALS, GEORGE W.	MARITAL INTENSITY: A CROSS CULTURAL STUDY	5R01 HD07806-03	46,287
GOODENOUGH, URSULA W.	MEMBRANE RECOGNITION AND AGGLUTINATION	1R01 GM23058-01	62,406
GREEN, DAVID M.	TEMPORAL FACTORS IN MASKING	2R01 NS11620-03A1	95,564
GUIDOTTI, GUIDO	BIOLOGICAL INVESTIGATIONS WITH ISOTOPES	5R01 GM05365-20	61,187
GUIDOTTI, GUIDO	STRUCTURE AND FUNCTION OF MEMBRANE PROTEINS	5R01 HL08893-12	94,991
HARRISON, STEPHEN C.	VIRUS STRUCTURE AND ASSEMBLY	5R01 CA13202-05	85,234
HASTINGS, JOHN W.	MOLECULAR AND CELLULAR MECHANISMS OF BIOLOGICAL RHYTHMS	5R01 GM19536-04	60,505
HASTINGS, JOHN W.	MOLECULAR AND CELLULAR MECHANISMS OF BIOLOGICAL RHYTHMS	5R01 GM19536-05	72,737
KAFATOS, FOTIS C.	SUPPORT OF CENTRAL LABORATORY FOR ELECTRON MICROSCOPY	5R01 GM06637-17	46,324
KAFATOS, FOTIS C.	STUDIES IN DEVELOPMENTAL BIOLOGY	5R01 HD04701-07	79,795
KARPLUS, MARTIN	ELECTRONIC STRUCTURE OF BIOMOLECULES	5R01 EY00662-07	33,284
KESSIN, RICHARD H.	GENETIC CONTROL OF CELL ADHESION IN D. DISCOIDEUM	5R01 GM21809-02	43,757
KISHI, YOSHITO	SYNTHETIC STUDIES ON COMPLEX NATURAL PRODUCTS	5R01 NS12108-02	121,262
KNOWLES, JEREMY R.	ENZYME-CATALYSED PHOSPHATE TRANSFER REACTIONS	5R01 GM21659-02	89,188
KNOWLES, JEREMY R.	PHOTOGENERATED REAGENTS FOR BIOLOGICAL RECEPTORS	1R01 GM22961-01	83,701
KOHLBERG, LAWRENCE	THE MEASUREMENT OF STAGES OF MORAL DEVELOPMENT	5R01 HD04128-08	82,333
KRONAUER, RICHARD E.	CONE INPUTS TO HUMAN SPATIAL DETECTORS	1R01 EY01808-01	67,151
LEVINE, ROBERT P.	COMPLEMENT ACTION ON MEMBRANES USING MYCOPLASMA MUTANTS	5R01 AI12885-02	66,316
LEWONTIN, RICHARD C.	GENETIC VARIATION OF PROTEINS IN NATURAL POPULATIONS	5R01 GM21179-03	101,779
LIPSCOMB, WILLIAM N.	STRUCTURE & FUNCTION OF BIOLOGICALLY ACTIVE MOLECULES	2R01 GM06920-17	304,352
LIPSCOMB, WILLIAM N.	STRUCTURE & FUNCTION OF BIOLOGICALLY ACTIVE MOLECULES	5R01 GM06920-18	239,277
LOBJICH, ALFRED R, III	DNA AND CHROMOSOMES OF DINOFAGELLATES	5R01 GM19519-05	38,846
LOESICK, RICHARD M.	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION	2R01 GM18568-04	63,977
MANIATIS, THOMAS P.	CHROMOSOME STRUCTURE AND GENE CONTROL IN SV40	1R01 GM22839-01	77,939
MC CLURE, WILLIAM R.	MECHANISM AND REGULATION OF E COLI RNA POLYMERASE	5R01 GM21052-02	30,605
MC MAHON, THOMAS A.	THERMALLY INDUCED OCULAR DEFORMATION	1R01 EY01907-01	38,558
MESELSON, MATTHEW S.	NUCLEAR AND MESSENGER RNA OF DROSOPHILA	5R01 GM22274-02	53,897
PTASHNE, MARK S.	BIOLOGICAL INVESTIGATIONS WITH ISOTOPES	5R01 GM05365-19	52,800
PTASHNE, MARK S.	MOLECULAR MECHANISM OF CONTROL OF GENE FUNCTION	5R01 GM21050-02	36,897
PTASHNE, MARK S.	STUDIES OF THE PHAGE LAMBDA AND 434 REPRESSORS	1R01 GM22526-01	23,996

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
PTASHNE, MARK S.	STUDIES OF THE PHAGE LAMBDA AND 434 REPRESSORS	5R01 GM22526-02	28,361
ROSENKRANTZ, BARBARA G.	DIAGNOSIS AND TREATMENT OF ASYLUM INMATES 1824-1860	5R01 LM02355-02	70,901
ROSOVSKY, HENRY	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07046-11	178,596
SATO, VICKI L.	FUNCTIONAL STUDIES OF ANTIGEN-REACTIVE T LYMPHOCYTES	1R01 CA20103-01	49,922
SEGAL, DAVID	INTER-URBAN MIGRATION AND LABOR MARKET EFFICIENCY	7R01 HD10757-01	26,264
STROMINGER, JACK L.	BIOCHEMISTRY—MECHANISM OF ACTION OF ANTIBIOTICS	5R01 AI09152-08	77,332
STROMINGER, JACK L.	CHEMICAL AND SEROLOGICAL STUDIES OF LYMPHOCYTE SURFACES	5R01 AI09576-07	58,477
STROMINGER, JACK L.	STRUCTURAL AND BIOSYNTHETIC STUDIES OF HLA DETERMINANTS	2R01 AI10736-02	97,411
STROMINGER, JACK L.	BIOSYNTHESIS OF COMPLEX POLYSACCHARIDES	5R01 AM13230-08	54,172
TAYLOR, C. RICHARD	LOCOMOTION: IDLING METABOLISM AND GAIT DYNAMICS	5R01 AM18140-02	40,930
TAYLOR, DOUGLASS L.	MUSCLE CONTRACTION AND CYTOPLASMIC STREAMING	5R01 AM18111-02	46,476
WALD, GEORGE	CHEMISTRY AND PHYSIOLOGY OF VISUAL EXCITATION	5R01 EY00508-07	78,489
WALD, GEORGE	CHEMISTRY AND PHYSIOLOGY OF VISUAL EXCITATION	5R01 EY00508-08	71,389
WARE, BENNIE R.	LASER DOPPLER INVESTIGATION OF PROTOPLASMIC STREAMING	5R01 GM21910-02	22,878
WESTHEIMER, FRANK H.	MECHANISM OF ENZYME ACTION	5R01 GM04712-20	87,362
WILLIAMS, CARROLL M.	NEW STRATEGIES IN THE SELECTIVE CONTROL OF INSECTS	5R01 AI12604-02	100,176
WOODWARD, ROBERT B.	STUDIES IN THE CHEMISTRY OF NATURAL PRODUCTS	5R01 GM04229-22	276,441
ORGANIZATION TOTAL	64	5,630,926	
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY ZIP CODE 02139</b>			
ADELSTEIN, S. JAMES	NUCLEAR TECHNIQUES IN METABOLISM & BONE DISEASE	5R01 AM17930-02	314,134
ADLER, RICHARD B.	SEMICONDUCTOR DETECTORS FOR GAMMA CAMERA APPLICATIONS	5R01 GM21605-02	40,497
BAKER, RAYMOND M.	MEMBRANE MUTANTS OF CULTURED MAMMALIAN CELLS	5R01 GM21665-02	56,714
BALDWIN, JACK E.	CHEMISTRY AND BIOSYNTHESIS OF ANTIBIOTICS	5R01 AI11997-02	62,229
BALDWIN, JACK E.	SYNTHESIS OF ANTITUMOR AMINO ACIDS	1R01 CA20747-01	26,175
BALDWIN, JACK E.	STUDIES ON THE OXIDATION OF ESSENTIAL FATTY ACIDS	1R01 GM22639-01	58,299
BALDWIN, JACK E.	CHELATING AGENTS AS BLOOD SUBSTITUTES	5R01 HL17794-02	65,382
BALTIMORE, DAVID	MOLECULAR BIOLOGY OF RNA VIRUSES	2R01 AI08388-09	83,977
BARRETT, ALAN H.	NONINVASIVE SENSING OF SUBCUTANEOUS TEMPERATURES	2R01 GM20370-03	122,054
BARRETT, ALAN H.	NONINVASIVE SENSING OF SUBCUTANEOUS TEMPERATURES	5R01 GM20370-04	126,431
BELL, EUGENE	GENE TRANSFER DURING DIFFERENTIATION AND AGING	5R01 AG00435-05	38,751
BENEDEK, GEORGE B.	PHYSICAL AND CHEMICAL BASIS OF LENS OPACITY	5R01 EY00797-05	128,439
BERCHTOLD, GLENN A.	ANTICANCER AGENTS: SYNTHESIS AND ACTIVITY STUDIES	1R01 CA18888-01	62,520
BERCHTOLD, GLENN A.	INVESTIGATIONS OF METABOLIC SYSTEMS	5R01 GM19103-05	77,856
BIEMANN, KLAUS	MASS SPECTROMETRIC SEQUENCING OF PROTEINS	5R01 GM05472-18	46,787
BIEMANN, KLAUS	MASS SPECTROMETRY FACILITY FOR BIOMEDICAL RESEARCH	5P41 RR00317-09	449,866
BIEMANN, KLAUS	MASS SPECTROMETRY FACILITY FOR BIOMEDICAL RESEARCH	5P41 RR00317-10	175,245
BIZZI, EMILIO	STUDY OF EYE-HEAD COORDINATION	5R01 NS09343-06	76,428
BIZZI, EMILIO	STUDY OF EYE-HEAD COORDINATION	5R01 NS09343-07	88,964
BOTSTEIN, DAVID	DNA REPLICATION OF PHAGE P22	5R01 GM18973-05	42,037
BOTSTEIN, DAVID	MOLECULAR GENETICS OF MORPHOGENETIC PATHWAYS	5R01 GM21253-02	84,109
BRAIDA, LOUIS D.	HEARING-AID RESEARCH	1R01 NS12846-01	171,506
BROWN, GENE M.	BIOSYNTHESIS OF B VITAMINS	5R01 AM03442-17	51,152
BROWN, GENE M.	BIOSYNTHESIS OF B VITAMINS	5R01 AM03442-18	59,694
BROWNELL, GORDON L.	CLINICAL TRIAL OF BORON NEUTRON CAPTURE THERAPY	1R01 CA19665-01	73,275
BROWNELL, GORDON L.	A FAST SENSITIVE PROPORTIONAL CHAMBER FOR IMAGING	5R01 GM22675-02	60,554
BUCHANAN, JOHN M.	NUCLEOTIDE AND NUCLEIC ACID METABOLISM	2R01 CA02015-23	116,565
BUCHANAN, JOHN M.	NUCLEOTIDE AND NUCLEIC ACID METABOLISM	5R01 CA02015-24	122,040
BUCHI, GEORGE H.	THE CHEMISTRY OF NATURAL PRODUCTS	5R01 GM09686-15	114,696
CAREY, SUSAN E.	DEVELOPMENT OF VISUAL FORM RECOGNITION IN CHILDREN	2R01 HD09179-02	46,528
COHEN, DAVID	MAGNETIC TRACERS FOR THE DIAGNOSIS OF LUNG DISEASE	5R01 HL17543-02	77,327
COHEN, DAVID	MAGNETIC TRACERS FOR THE DIAGNOSIS OF LUNG DISEASE	5R01 HL17543-03	83,391
COONEY, CHARLES L.	STREPTOCOCCUS MUTANS AND DENTAL CARIES FORMATION	5R01 DE03976-02	52,831
EISEN, HERMAN N.	IMMUNITY TO MYELOMA TUMORS	5R01 CA15472-03	152,278
EISEN, HERMAN N.	IMMUNITY TO MYELOMA TUMORS	5R01 CA15472-04	164,611
FODOR, JERRY A.	PROCESSES IN UNDERSTANDING AND PRODUCING SENTENCES	5R01 HD05168-05	105,599
FOX, JAMES G.	RESEARCH ANIMAL DIAGNOSTIC LABORATORY	1P40 RR01046-01	95,622
FOX, MAURICE S.	GENETIC RECOMBINATION AND MICROBIAL DNA SYNTHESIS	5R01 AI05388-14	114,619
FRISHKOPF, LAWRENCE S.	TRANSDUCTION MECHANISMS IN LATERAL-LINE ORGANS	5R01 NS11080-03	81,493
GETTER, MALCOLM L.	REGULATORY MECHANISMS IN NORMAL AND NEOPLASTIC CELLS	1R01 AI13357-01	93,472



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
GEFTER, MALCOLM L.	MECHANISM AND CONTROL OF DNA REPLICATION	5R01 GM20363-04	50,737
GOTTJEB, PAUL D.	GENETIC MARKERS, LEUKEMOGENESIS, AND THYMIC FUNCTION	5R01 CA15808-03	47,039
GREEN, HOWARD	STUDY OF GROWTH AND CELL CONTROL PROCESSES	5P01 CA12174-06	319,433
GREEN, HOWARD	STUDY OF GROWTH AND CELL CONTROL PROCESSES	5P01 CA12174-07	353,863
GREEN, HOWARD	GROWTH AND DIFFERENTIATED FUNCTION IN MAMMALIAN CELLS	2R01 CA12187-07	113,144
GREENE, FREDERICK D.	NEW SMALL-RING HETEROCYCLES FOR CANCER CHEMOTHERAPY	5R01 CA16592-02	32,293
GRIFFIN, ROBERT G.	SOLID STATE NMR STUDIES OF LIPID BILAYER STRUCTURE	1R01 GM23289-01	66,267
HALL, LINDA M.	NEUROLOGICAL MUTANTS OF DROSOPHILA MELANOGASTER	5R01 GM21106-03	46,319
HEIN, ALAN	DEVELOPMENT OF PERCEPTUAL CAPACITIES	5R01 NS09279-05	54,692
HELD, RICHARD M.	VISION AND VISUOMOTOR MECHANISMS	3R01 EY01191-03S1	5,135
HELD, RICHARD M.	VISION AND VISUOMOTOR MECHANISMS	2R01 EY01191-04	86,442
HENDERSON, ELLEN J.	MECHANISM OF A CAMP MEMBRANE RECEPTOR IN DEVELOPMENT	5R01 GM21828-02	33,235
HOPKINS, NANCY H.	STUDIES ON THE ENDOGENOUS VIRUSES OF BALB/C MICE	1R01 CA19308-01	31,815
HOUSMAN, DAVID E.	ERYTHROID DIFFERENTIATION IN FRIEND LEUKEMIA CELLS	5R01 CA17575-02	51,092
HYNES, RICHARD O.	ROLE OF CELL SURFACE PROTEINS IN GROWTH CONTROL	5R01 CA17007-02	50,989
INGRAM, VERNON M.	DIFFERENTIATION OF ERYTHROPOIESIS AND MYOGENESIS	5R01 AM13945-07	227,206
KEMP, DANIEL S.	SYNTHESIS AND REACTIONS OF PEPTIDES	5R01 GM13453-11	75,989
KHORANA, HAR G.	STUDIES OF BIOLOGICAL MEMBRANES	2R01 AM11479-04	78,765
KHORANA, HAR G.	SYNTHETIC AND BIOLOGICAL STUDIES OF NUCLEIC ACIDS	2R01 CA11981-06	276,967
KHORANA, HAR G.	SYNTHETIC AND BIOLOGICAL STUDIES OF NUCLEIC ACIDS	5R01 CA11981-07	300,870
KING, JONATHAN A.	BACTERIOPHAGE ASSEMBLY AND ITS GENETIC CONTROL	5R01 GM17980-06	80,146
KING, JONATHAN A.	BACTERIOPHAGE ASSEMBLY AND ITS GENETIC CONTROL	5R01 GM17980-07	99,365
LANNING, DAVID D.	GENERATOR FOR RADIONUCLIDE ANGIOCARDIOGRAPHY	5R01 HL17625-02	29,052
LANNING, DAVID D.	GENERATOR FOR RADIONUCLIDE ANGIOCARDIOGRAPHY	5R01 HL17625-03	54,917
LEES, ROBERT S.	SUPPORT FOR ARTERIOSCLEROSIS RESEARCH CENTER	3P50 HL14209-05S1	313,498
LELE, PADMAKAR P.	LOCAL ULTRASONIC HYPERTHERMIA FOR TUMOR THERAPY	3R01 CA16111-02S1	33,278
LELE, PADMAKAR P.	EFFECTS OF ULTRASOUND ON CELL GROWTH AND DIVISION	5R01 GM19706-03	52,027
LETTVIN, JEROME Y.	STUDIES IN THE PHYSIOLOGY AND PSYCHOLOGY OF VISION	3R01 EY01149-03S1	34,501
LEVENE, MARTIN B.	DOSE DISTRIBUTION IN CANCER RADIATION THERAPY	3P01 CA17588-01S1	10,229
LEVENE, MARTIN B.	DOSE DISTRIBUTION IN CANCER RADIATION THERAPY	5P01 CA17588-02	424,060
LINDER, MARIA C.	ISOERRITINS IN NORMAL AND MALIGNANT TISSUES	5R01 CA17249-02	38,145
LODISH, HARVEY F.	REGULATION OF VIRAL RNA TRANSLATION	5R01 AM08814-08	63,408
LODISH, HARVEY F.	TRANSLATION OF VIRAL MESSENGER RNAs	2R01 AM08814-09	99,492
LONDON, IRVING M.	REGULATION OF HEMOGLOBIN SYNTHESIS AND HEMATOPOIESIS	5R01 AM16272-05	153,808
LURIA, SALVADOR E.	CONTROL FUNCTIONS OF BACTERIOPHAGES AND BACTERIOCINS	5R01 AM03038-17	75,218
LURIA, SALVADOR E.	CONTROL FUNCTIONS OF BACTERIOPHAGES AND BACTERIOCINS	5R01 AM03038-18	75,305
LURIA, SALVADOR E.	STUDY OF CANCER BIOLOGY	2P01 CA14051-04	1,006,315
LURIA, SALVADOR E.	STUDY OF CANCER BIOLOGY	5P01 CA14051-05	1,123,741
MAGASANIK, BORIS	SYNTHESIS OF HISTIDINE DEGRADING ENZYMES	5R01 AM13894-07	82,509
MAGASANIK, BORIS	METABOLISM AND BIOLOGICAL FUNCTION OF INOSITOL	5R01 GM07446-17	33,795
MAGASANIK, BORIS	METABOLISM AND BIOLOGICAL FUNCTION OF INOSITOL	5R01 GM07446-18	49,179
MANN, ROBERT W.	PRESSURE DISTRIBUTION ACROSS HUMAN HIP JOINT	5R01 AM16116-03	127,136
MANN, ROBERT W.	AN INTERDISCIPLINARY PROGRAM IN BIOMATERIALS SCIENCE	5P01 HL14322-05	943,789
MUNRO, HAMISH N.	NUTRITIONAL REGULATION OF PROTEIN METABOLISM	5R01 AM15364-06	79,551
NEURINGER, LEO J.	A NATIONAL NMR FACILITY FOR BIOMOLECULAR RESEARCH	1P41 RR00995-01	281,460
NEWBERNE, PAUL M.	NEW SYRIAN HAMSTER GENETIC POOL: A RESOURCE	5P40 RR00844-04	61,629
PARDUE, MARY L.	GENE FUNCTION ANALYSIS BY POLYTENE CHROMOSOMES	5R01 GM21874-02	77,382
PEAKE, WILLIAM T.	SIGNAL TRANSMISSION IN THE AUDITORY SYSTEM	5R01 NS11000-03	96,557
PENMAN, SHELDON	TRANSCRIPTION AND TRANSLATION IN MAMMALIAN CELLS	5R01 CA08416-11	150,423
POLLITT, ERNESTO	BEHAVIORAL EFFECTS OF IRON DEFICIENCY	5R22 HD09228-02	147,452
RAJBHANDARY, UTTAM L.	STRUCTURE AND FUNCTION OF TRANSFER RIBONUCLEIC ACIDS	5R01 GM17151-07	53,995
RICH, ALEXANDER	MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND PROTEINS	5R01 CA04186-18	144,178
RICHARDS, WHITMAN A.	STUDIES OF BINOCULAR VISION	5R01 EY00742-05	43,222
ROBBINS, PHILLIPS W.	CELL SURFACE BIOCHEMISTRY OF TRANSFORMED ANIMAL CELLS	5R01 CA14142-14	119,083
ROSE, ROBERT M.	POLYETHYLENE BEHAVIOR AFTER JOINT REPLACEMENT	5R01 AM18227-02	128,305
ROSENBLUTH, WALTER A.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07047-11	205,023
SAMUELSON, PAUL A.	NONLINEAR AND STOCHASTIC POPULATION ANALYSIS	5R01 HD09081-02	37,692
SCHILLER, PETER H.	STUDIES OF INTERACTION BETWEEN EYE MOVEMENT AND VISION	5R01 EY00676-06	82,749
SCHIMMEL, PAUL R.	INVESTIGATIONS OF REACTIONS OF PHYSIOLOGICAL IMPORTANCE	5R01 GM15539-09	108,690
SCHMITT, FRANCIS O.	NEUROSCIENCES RESEARCH PROGRAM	5R01 NS09937-14	216,192



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
SCHNEIDER, GERALD E.....	NEUROPSYCHOLOGICAL STUDIES OF THE VISUAL SYSTEM.....	3R01 EY00126-06S1	5,264
SCHNEIDER, GERALD E.....	NEUROPSYCHOLOGICAL STUDIES OF THE VISUAL SYSTEM.....	2R01 EY00126-07	92,420
SCRIMSHAW, NEVIN S.....	PROTEIN NEEDS OF ELDERLY PEOPLE.....	2R01 AG00475-02	68,655
SCRIMSHAW, NEVIN S.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	2M01 RR00088-13	666,953
SHAPIRO, ASCHER H.....	EXTERNAL PNEUMATIC COMPRESSION IN DEEP VENOUS THROMBOSIS.....	1R01 HL17974-01A1	93,440
SHARPLESS, K BARRY.....	BIOCHEMICAL ASPECTS OF SELENIUM CHEMISTRY.....	5R01 GM21686-02	60,032
SIEBERT, WILLIAM M.....	BINAURAL HEARING.....	2R01 NS10916-02	124,258
STANBURY, JOHN B.....	GOTTER AND RETARDATION IN ECUADOR AND PERU.....	5R01 AM17266-03	41,807
STANLEY, H EUGENE.....	NORMAL AND ABNORMAL MECHANISMS OF VISION.....	5R01 EY01463-02	134
STEINER, LISA A.....	VARIATIONS IN ANTIBODY AFFINITY.....	5R01 AI08054-09	62,580
STEINER, LISA A.....	VARIATIONS IN ANTIBODY AFFINITY.....	5R01 AI08054-10	66,650
STEVENS, KENNETH N.....	PHYSIOLOGICAL AND ACOUSTICAL STUDIES OF SPEECH.....	5R01 NS04332-13	200,299
STEVENS, KENNETH N.....	PHYSIOLOGICAL AND ACOUSTICAL STUDIES OF SPEECH.....	5R01 NS04332-14	104,624
STEVENS, KENNETH N.....	SEGMENTAL TIMING IN SPEECH.....	1R01 NS13028-01	29,990
TANAKA, TOYOICHI.....	IN VIVO DETECTION OF PROTEIN AGGREGATES IN THE LENS.....	1R01 EY01696-01	29,623
TEUBER, HANS-LUKAS.....	EXTENT AND LIMITS OF NEUROPLASTICITY.....	5P01 NS12336-02	237,485
THILLY, WILLIAM G.....	BIOASSAY: IN VITRO MODELS OF HUMAN CHEMO-ONCOGENESIS.....	5R01 CA15010-03	37,976
TYLER, BONNIE M.....	REGULATION OF TRANSCRIPTION BY GLUTAMINE SYNTHETASE.....	1R01 GM22527-01	50,191
WALSH, CHRISTOPHER T.....	ENZYMATIC REACTION MECHANISMS.....	2R01 GM20011-04	57,217
WALSH, CHRISTOPHER T.....	5-DEAZAFLAVIN COENZYMES AS FLAVOENZYME PROBES.....	5R01 GM21643-02	47,382
WAUGH, DAVID F.....	BLOOD COAGULATION: PHYSICO-CHEMICAL INTERACTIONS.....	5R01 HL13198-19	105,172
WAUGH, JOHN S.....	HIGH RESOLUTION NMR IN SOLIDS.....	5R01 GM16552-08	49,628
WEAVER, JAMES C.....	BIOCHEMICAL ASSAY AND SPATIAL MAPPING OF ENZYMES.....	1R01 GM22633-01	61,488
WEAVER, JAMES C.....	BIOCHEMICAL ASSAY AND SPATIAL MAPPING OF ENZYMES.....	5R01 GM22633-02	69,798
WEINBERG, ROBERT A.....	CHARACTERIZATION OF THE PROVIRAL DNA OF MULV.....	5R01 CA17537-02	26,684
WEINER, MYRON.....	MIGRATION POLICIES AND DEVELOPMENT.....	5P01 HD09272-02	145,440
WOGAN, GERALD N.....	STUDY OF FOOD-BORNE ENVIRONMENTAL TOXICANTS.....	2P01 ES00597-06	569,221
WOLF, GEORGE D.....	FUNCTION OF VITAMIN A IN GLYCOPROTEIN SYNTHESIS.....	5R01 AM08732-15	63,368
WOLF, GEORGE D.....	VITAMIN A AND GLYCOPROTEINS OF CORNEA.....	2R01 EY00515-08	54,793
WURTMAN, RICHARD J.....	ENDOCRINE CONTROL OF THE METABOLISM OF NEUROHUMORS.....	5R01 AM11237-10	46,340
WURTMAN, RICHARD J.....	CONTROL OF AROMATIC AMINO ACID UTILIZATION IN MAMMALS.....	5R01 AM14228-07	76,892
YOUNG, IAN T.....	AUTOMATED ANALYSIS OF PARTIALLY DENATURED DNA MOLECULES.....	1R01 GM22547-01	29,653
YOUNG, VERNON R.....	AGING AND METABOLISM IN SKELETAL MUSCLE.....	5R01 AG00483-03	62,221
YOUNG, VERNON R.....	DIETARY PROTEIN INTAKE AND HUMAN PROTEIN METABOLISM.....	5R01 AM15856-05	51,705
YOUNG, VERNON R.....	NUTRITION AND MUSCLE PROTEIN TURNOVER BY NEW METHODS.....	5R01 AM16654-04	47,472
ORGANIZATION TOTAL	135	16,939,790	
<b>RESEARCH INSTITUTE FOR EDUCATIONAL PROBLEMS ZIP CODE 02138</b>			
BUDOFF, MILTON.....	STUDIES IN THE DEVELOPMENT OF CATEGORICAL CLUSTERING.....	5R01 HD08307-02	85,333
BUDOFF, MILTON.....	SOCIAL REJECTION OF RETARDED CHILDREN.....	5R01 HD08439-02	47,207
ORGANIZATION TOTAL	2	132,540	
<b>CHESTNUT HILL</b>			
<b>BOSTON COLLEGE ZIP CODE 02167</b>			
BADE, MARIA L.....	BIOCHEMISTRY OF INSECT CUTICLE.....	2R01 ES00650-04	48,757
BOGER, ELJAHU.....	BENZO (RST) PENTAPHENE AND FLUORO DERIVATIVES.....	5R01 CA18959-02	45,770
KELLY, T ROSS.....	SYNTHESIS OF THE ANTITUMOR AGENT HARRINGTONINE.....	5R01 CA14014-04	25,361
KELLY, T ROSS.....	PRACTICAL SYNTHESIS OF THE ANTICANCER DRUG ADRIAMYCIN.....	5R01 CA17631-02	50,704
KELLY, T ROSS.....	SYNTHESIS OF THE CNS STIMULANT DENDROBINE.....	5R01 NS09831-05	32,838
LISS, MAURICE.....	PROTEIN METHYLATION IN POSTERIOR PITUITARY FUNCTION.....	5R01 AM17612-02	29,560
PLOCKE, DONALD J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR07156-01	34,735
RULE, ALLYN H.....	IMMUNE MECHANISMS IN REMISSION OF THE DUNNING LEUKEMIA.....	1R01 CA19430-01	47,900
SPAGNOLO, PAUL G.....	FERTILITY IN THE NINETEENTH-CENTURY LILLE REGION.....	1R01 HD10095-01	45,959
YOON, CHAI H.....	GENETICS AND BIOCHEMISTRY OF NEUROLOGICAL MUTANTS.....	5R01 NS02267-16	40,123
ORGANIZATION TOTAL	10	401,707	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>MEDFIELD</b>			
<b>MASSACHUSETTS OFFICE OF HUMAN SERVICES—MEDFIELD STATE HOSPITAL      ZIP CODE 02052</b>			
BARBER, THEODORE X.....	COGNITION, PERSONALITY, AND REDUCTION OF PAIN.....	5R01 GM22771-02	45,136
ORGANIZATION TOTAL	1	45,136	
<b>MEDFORD</b>			
<b>TUFTS UNIVERSITY      ZIP CODE 02155</b>			
FELDBERG, ROSS S.....	THE NATURE AND REPAIR OF A NEW FORM OF DNA DAMAGE.....	1R01 CA19419-01	49,712
KREIFELDT, JOHN G.....	COMPUTER CONTROL OF RADIATION THERAPY CANCER TREATMENT.....	5R01 CA14960-02	47,291
ROYS, CHESTER.....	NEUROPHYSIOLOGY AND BEHAVIOR.....	5R01 AI00947-20	9,757
SCHAEFFER, JOHN F.....	MOLECULAR ASPECTS OF NA-COUPLED TRANSPORT.....	5R01 AM17414-03	26,521
ORGANIZATION TOTAL	4	133,281	
<b>NORTHAMPTON</b>			
<b>SMITH COLLEGE      ZIP CODE 01060</b>			
DE VILLAFRANCA, GEORGE W.....	BIOCHEMISTRY AND LOCALIZATION OF MUSCLE PROTEINS.....	5R01 AM02647-20	33,680
DE VILLAFRANCA, GEORGE W.....	BIOCHEMISTRY AND LOCALIZATION OF MUSCLE PROTEINS.....	5R01 AM02647-21	34,197
OLIVO, MARGARET A.....	STUDIES ON A SINGLE SARCOMERE.....	5R01 NS12196-02	17,726
TEGHTSOONIAN, ROBERT.....	DYNAMIC RANGE AND RESOLVING POWER OF SENSORY SYSTEMS.....	1R01 NS12597-01	65,721
ORGANIZATION TOTAL	4	151,324	
<b>NORTH DARTMOUTH</b>			
<b>SOUTHEASTERN MASSACHUSETTS UNIVERSITY      ZIP CODE 02747</b>			
THOMAS, GEORGE J, JR.....	THE MOLECULAR STRUCTURE OF RNA VIRUSES.....	5R01 AI11855-02	24,485
THOMAS, GEORGE J, JR.....	THE MOLECULAR STRUCTURE OF RNA VIRUSES.....	5R01 AI11855-03	19,201
ORGANIZATION TOTAL	2	43,686	
<b>SHREWSBURY</b>			
<b>WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY      ZIP CODE 01545</b>			
BARIL, EARL F.....	DNA SYNTHESIS: REGULATION IN NORMAL AND CANCER CELLS.....	5R01 CA15187-02	64,208
BARIL, EARL F.....	CARCINOSTATIC AGENTS: MECHANISMS OF ACTION.....	5R01 CA15360-03	62,605
BARTKE, ANDRZEJ.....	INFLUENCE OF PROLACTIN ON THE TESTIS.....	3R01 HD06867-03S1	850
BARTKE, ANDRZEJ.....	ANDROGENS IN RETE TESTIS FLUID AND SPERMATOGENESIS.....	1R01 HD09584-01	77,939
BRODIE, ANGELA M H.....	AROMATASE INHIBITORS FOR CONTROL OF BREAST CANCER.....	5R01 CA18595-02	61,733
BRODIE, HARRY J.....	ESTROGEN BIOSYNTHESIS AND RELATED ENZYME REACTIONS.....	5R01 AM14625-06	71,373
BRODIE, HARRY J.....	ANTIFERTILITY COMPOUNDS—SYNTHESIS AND TESTING.....	1R01 HD10269-01	51,381
CASPI, ELIAHU.....	STUDIES WITH STEREOSPECIFICALLY LABELED MEVALONATES.....	5R01 AM12156-09	105,446
CASPI, ELIAHU.....	IODINATED (125I AND/OR 131I) ESTROGENS IN BREAST CANCER.....	5R01 CA16464-02	82,042
CASPI, ELIAHU.....	BIOSYNTHESIS OF STEROLS IN DIGITALIS PLANTS.....	5R01 GM19882-11	60,366
CASPI, ELIAHU.....	PRENATAL PROTEIN MALNUTRITION AND BRAIN STEROLS.....	5R01 HD08194-03	74,828
CHANG, MIN C.....	PHYSIOLOGY OF THE FEMALE TRACT.....	5R01 HD03003-16	67,872
CHANG, MIN C.....	PHYSIOLOGY OF MAMMALIAN FERTILIZATION.....	5R01 HD03472-14	66,977
DAVIS, BRIAN K.....	SYNTHETIC AND NATURAL ANTIFERTILIZATION VESICLES.....	1R01 HD10206-01	98,279
GREENBERG, JAY R.....	MESSANGER RNA SYNTHESIS AND TURNOVER IN TUMOR CELLS.....	5R01 CA16895-03	52,474
GUT, MARCEL.....	SYNTHESIS OF LABELED ADRENAL HORMONES.....	5R01 AM03419-17	90,652
HELE, MARY E.....	ACTIVATION COMPLEXES IN PROTEIN SYNTHESIS.....	5R01 GM20751-02	64,644
HOAGLAND, MAHLON B.....	CANCER CENTER SUPPORT GRANT.....	5P01 CA12708-05	466,812
HOAGLAND, MAHLON B.....	CANCER CENTER SUPPORT GRANT.....	5P01 CA12708-06	481,114
HOAGLAND, MAHLON B.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05528-14	183,976
HOCHSTADT, JOY.....	TRANSPORT BY MEMBRANE VESICLES OF CULTURED TUMOR CELLS.....	5R01 CA14780-04	10,090
JAHAN-PARWAR, BEHRUS.....	NEURAL BASES OF BEHAVIOR.....	5R01 NS12483-02	66,240
KUPFER, DAVID.....	EFFECTS OF CHLORINATED HYDROCARBONS ON MAMMALS.....	5R01 ES00834-03	66,415
KUPFER, DAVID.....	PROSTAGLANDINS: INTERACTIONS WITH MONOOXYGENASES.....	1R01 GM22688-01	87,567

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
LONGCOPE, CHRISTOPHER L.....	REPRODUCTIVE FUNCTION AND GONADAL STEROID DYNAMICS.....	5R01 HD08034-03	100,219
LUFFIG, RONALD B.....	PHYSICOCHEMICAL STUDIES OF VIRAL NUCLEOCAPSID ASSEMBLY.....	5R01 CA15573-03	70,416
LUFFIG, RONALD B.....	VIRAL INTERACTION OF MICROTUBULES IN CANCER CELLS.....	1R01 CA18979-01	76,618
MACRIDES, FOTEOS.....	OLFACTORY AND NEUROENDOCRINE FUNCTIONS.....	5R01 NS12344-02	80,460
MAUDSLEY, DAVID V.....	POLYAMINE METABOLISM IN REPRODUCTIVE PHYSIOLOGY.....	5R01 HD06387-05	58,435
MAUDSLEY, DAVID V.....	DIAMINE METABOLISM IN TISSUE GROWTH.....	5R01 HD07476-03	64,901
MC CRACKEN, JOHN A.....	ENDOCRINE FUNCTION OF TRANSPLANTED UTERUS AND OVARY.....	5R01 HD08129-03	90,109
MC CRACKEN, JOHN A.....	BRAIN PROSTAGLANDINS AND GONADOTROPIN SECRETION.....	1R01 HD09731-01A1	87,308
OZER, HARVEY L.....	HOST FUNCTIONS RELATED TO TUMOR-VIRUS INFECTION.....	2R01 CA14670-04	108,679
OZER, HARVEY L.....	REGULATION OF EXPRESSION OF VIRAL TRANSFORMANTS.....	5R01 CA17128-02	86,463
PEDERSON, THORU.....	STUDIES ON GENE TRANSCRIPTION IN EUKARYOTES.....	5R01 GM21595-02	109,121
PERON, FERNAND G.....	STUDY OF ADRENOCORTICOTROPIC ACTION.....	5R01 CA18635-16	154,130
RESNICK, OSCAR.....	MATERNAL PROTEIN RESTRICTION AND MENTAL RETARDATION.....	5P01 HD06364-05	419,054
ROBERTS, JOHN S.....	OXYTOCIN CONTROL: STEROIDS, AMINES AND PROSTAGLANDINS.....	5R01 HD09345-02	55,905
SKARNES, ROBERT C.....	MECHANISMS OF TOXICITY OF BACTERIAL ENDOTOXIN.....	5R01 AI12221-03	72,535
VOGLMAYR, JOSEF K.....	SPERM MATURATION, AND ENDOCRINE FUNCTION OF THE TESTIS.....	5R01 HD09356-02	72,611
WEIHING, ROBERT R.....	STUDY OF ACTIN AND TUBULIN CANCER CELLS.....	5R01 CA15229-02	56,241
ORGANIZATION TOTAL	41	4,279,088	
<b>SOUTH HADLEY</b>			
MOUNT HOLYOKE COLLEGE	ZIP CODE 01075		
WILLIAMSON, KENNETH L.....	CONFORMATIONAL ANALYSIS BY NMR.....	5R01 GM10224-13	46,499
ORGANIZATION TOTAL	1	46,499	
<b>STOW</b>			
RED ACRE FARM	ZIP CODE 01775		
SERONDE, JOSEPH, JR.....	OBESITY-DIETARY, HORMONAL AND GENETIC DETERMINANTS.....	5R01 AM08272-13	23,263
SERONDE, JOSEPH, JR.....	MODELS FOR THE STUDY OF OBESITY AND GROWTH.....	5P40 RR00427-09	21,329
ORGANIZATION TOTAL	2	44,592	
<b>WALTHAM</b>			
BRANDEIS UNIVERSITY	ZIP CODE 02154		
ABELES, ROBERT H.....	ENZYME MECHANISMS AND ENZYME INHIBITORS.....	5R01 GM12633-13	72,921
ABELES, ROBERT H.....	IMPROVEMENT OF ANIMAL RESOURCE FACILITY.....	5P40 RR00913-02	38,214
AREND, LAWRENCE E.....	ANALYSIS OF FREQUENCY CHANNELS IN HUMAN VISION.....	1R01 EY01797-01	38,025
BIRNBAUM, SANFORD M.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07044-11	120,982
CASPAR, DONALD L.....	ASSEMBLY OF VIRUSES, MEMBRANES, AND TISSUE.....	5R01 CA15468-03	151,980
CHAN, IU-YAM.....	PHOSPHORESCENT TRIPLET STATE OF CARBONYL COMPOUNDS.....	2R01 GM20275-04	36,116
COHEN, CAROLYN.....	MUSCLE STRUCTURE AND THE CONTRACTILE MECHANISM.....	5R01 AM17346-03	119,654
COHEN, CAROLYN.....	MUSCLE STRUCTURE AND THE CONTRACTILE MECHANISM.....	5R01 AM17346-04	134,322
COHEN, SAUL G.....	SPECIFICITY AND REACTIVITY OF HYDROLYTIC ENZYMES.....	5R01 GM04584-19	33,464
DE ROSIER, DAVID J.....	STRUCTURAL STUDIES OF BIOLOGICAL COMPLEXES.....	2R01 GM21189-03	89,804
DE ROSIER, DAVID J.....	STRUCTURAL STUDIES OF BIOLOGICAL COMPLEXES.....	5R01 GM21189-04	107,668
FASMAN, GERALD D.....	PROTEIN NUCLEIC ACID INTERACTIONS: MODEL STUDIES.....	5R01 GM17533-15	84,928
FREIFELDER, DAVID M.....	PHYSICOCHEMICAL AND GENETIC STUDIES OF DNA FUNCTION.....	5R01 GM14358-10	62,092
HABER, JAMES E.....	CONTROL OF GAMETOGENESIS.....	2R01 GM20056-04	76,235
HALL, JEFFREY C.....	NEUROGENETICS OF DROSOPHILA REPRODUCTIVE BEHAVIOR.....	5R01 GM21473-02	37,795
HALVORSON, HARLYN O.....	STUDIES ON PROTEIN METABOLISM IN YEAST.....	2R01 AI10610-05	79,090
HALVORSON, HARLYN O.....	STUDIES ON PROTEIN METABOLISM IN YEAST.....	5R01 AI10610-06	86,994
HALVORSON, HARLYN O.....	REGULATION OF DIFFERENTIATION IN BACILLUS SPORES.....	5R01 GM18904-05	76,350
HONG, JEN-SHIANG.....	BIOCHEMISTRY AND GENETICS OF MEMBRANE FUNCTIONS.....	1R01 GM22576-01	56,952
HOPPER, JAMES E.....	MOLECULAR BASIS OF INTERCHROMOSOMAL GENE REGULATION.....	1R01 GM23717-01	84,053
INGLE, DAVID J.....	MOTOR FUNCTIONS OF OPTIC TECTUM AND THALAMUS.....	1R01 NS13592-01	50,093
JENCKS, WILLIAM P.....	CHEMISTRY AND BIOCHEMISTRY OF ENERGY TRANSFER.....	5R01 GM20888-19	70,916
KUSTIN, KENNETH.....	CHEMICAL KINETICS STUDIED BY RELAXATION SPECTROMETRY.....	5R01 GM08893-14	36,061
LEVINE, LAWRENCE.....	PROSTAGLANDINS & ENZYMES IN NORMAL AND MALIGNANT TISSUES.....	5R01 CA17309-02	65,625



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
LEVINE, LAWRENCE.....	EFFECTS OF PROSTAGLANDINS ON TUMOR GROWTH IN VIVO.....	1R01 CA19416-01	42,765
LEVINE, LAWRENCE.....	STUDIES ON THE PHYSIOLOGICAL ROLE OF THE PROSTAGLANDINS.....	5R01 HD07966-03	76,414
LISMAN, JOHN E.....	ADAPTATION IN INVERTEBRATE PHOTORECEPTORS.....	5R01 EY01496-03	41,937
LOWENSTEIN, JOHN M.....	LIPOGENESIS AS A FUNCTION OF AGING.....	5R01 AG00120-02	50,884
LOWENSTEIN, JOHN M.....	ENZYMATIC & CHEMICAL REACTIONS OF ADENOSINE TRIPHOSPHATE.....	5R01 GM07261-16	41,858
LOWEY, SUSAN.....	CHEMISTRY OF MUSCLE PROTEINS.....	2R01 AM17350-04	92,478
MURAKAMI, WILLIAM T.....	VIRUS-INDUCED NEOPLASTIC CONVERSIONS.....	5R01 CA06654-14	88,568
NISONOFF, ALFRED.....	IDIOTYPE AND GENETIC CONTROL OF ANTIBODY BIOSYNTHESIS.....	5R01 AI12895-02	49,408
NISONOFF, ALFRED.....	STRUCTURE AND BIOSYNTHESIS OF ANTIBODIES.....	2R01 AI12907-02	88,995
NISONOFF, ALFRED.....	IMMUNOSUPPRESSION OF IDIOTYPIC SPECIFICITIES.....	5R01 AI12908-02	56,298
PARRY, RONALD J.....	BIOSYNTHESIS OF ANTILEUKEMIC CEPHALOTAXUS ALKALOIDS.....	5R01 GM19220-05	33,751
REDFIELD, ALFRED G.....	STRUCTURAL KINETIC STUDIES BY NUCLEAR MAGNETIC RESONANCE.....	2R01 GM20168-04	117,965
ROSBASH, MICHAEL M.....	MACROMOLECULAR SYNTHESIS IN OÖGENESIS AND DEVELOPMENT.....	5R01 HD08887-02	41,317
ROSENBLUM, MYRON.....	ORGANOMETALLIC REAGENTS IN ORGANIC SYNTHESIS.....	5R01 GM16395-08	48,444
ROSENBLUM, MYRON.....	ORGANOMETALLIC REAGENTS IN ORGANIC SYNTHESIS.....	5R01 GM16395-09	64,981
SCHIFF, JEROME A.....	STUDIES OF THE CONTINUITY OF CELLULAR ORGANELLES.....	5R01 GM14595-10	50,057
SCHIFF, JEROME A.....	STUDIES OF THE CONTINUITY OF CELLULAR ORGANELLES.....	2R01 GM14595-11	138,970
SCHLEIF, ROBERT F.....	ACTION MECHANISM OF ARABINOSIDE C GENE PROTEIN.....	5R01 GM18277-06	47,653
STEPHENS, RAYMOND E.....	MICROTUBULE SUBSTRUCTURE.....	5R01 GM21040-03	23,713
STEVENSON, ROBERT.....	SYNTHESIS OF LIGNANS AND RELATED PRODUCTS.....	5R01 GM19566-08	35,798
SZENT-GYÖRGYI, ANDREW G.....	REGULATION IN STRIATED, SMOOTH AND CARDIAC MUSCLES.....	5R01 AM15963-11	93,958
TIMASHEFF, SERGE N.....	TUBULIN ASSOCIATIONS AND EFFECTS OF ANTICANCER DRUGS.....	5R01 CA16707-02	103,840
TIMASHEFF, SERGE N.....	STRUCTURE AND INTERACTIONS OF PROTEINS IN SOLUTION.....	5R01 GM14603-10	82,541
WENSINK, PIETER C.....	SEQUENCE ARRANGEMENT IN EUKARYOTIC DNA & CHROMOSOMES.....	5R01 GM21626-02	55,782
ORGANIZATION TOTAL	48	3,378,709	
<b>EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION ZIP CODE 02154</b>			
ADAMS, RAYMOND D.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5SD07 RR05730-05	112,758
CAVINESS, VERNE S, JR.....	DEVELOPMENTAL NEUROPATHOLOGY.....	5R01 NS12005-02	79,826
JUNGALWALA, FIROZE B.....	BIOCHEMICAL ASPECTS OF EXPERIMENTAL BRAIN TUMORS.....	5R01 CA16853-02	50,379
JUNGALWALA, FIROZE B.....	BIOCHEMICAL ASPECTS OF EXPERIMENTAL BRAIN TUMORS.....	5R01 CA16853-03	49,800
JUNGALWALA, FIROZE B.....	ASSEMBLY OF CEREBRAL MYELIN MEMBRANES.....	5R01 NS10437-05	40,863
KISHIMOTO, YASUO.....	BRAIN 2-HYDROXYL FATTY ACID METABOLISM AND MYELINATION.....	2R01 NS10741-04	55,380
KISHIMOTO, YASUO.....	METABOLISM OF 3-KETO DERIVATIVE OF SPHINGOLIPIDS.....	5R01 NS11899-02	38,799
KISHIMOTO, YASUO.....	IMPROVEMENT OF ANIMAL CARE FACILITY.....	1P40 RR01023-01	46,146
LEES, MARJORIE B.....	RELATIONSHIP BETWEEN BRAIN PROTEINS AND LIPIDS.....	7R01 NS13649-01	102,764
MC CLUER, ROBERT H.....	BIOCHEMICAL AND GENETIC ASPECTS OF MENTAL RETARDATION.....	5P01 HD05515-07	385,550
MC CLUER, ROBERT H.....	NEURONAL CELL SPECIFICITY OF GLYCOLIPID PATTERNS.....	3R01 NS10613-01S1	9,300
MILUNSKY, AUBREY.....	PRENATAL DETECTION OF NEURAL TUBE DEFECTS.....	5R01 HD09281-02	94,597
MOSER, HUGO W.....	RESEARCH IN MENTAL RETARDATION.....	5P30 HD04147-08	280,072
MOSER, HUGO W.....	BIOCHEMICAL AND GENETIC ASPECTS OF MENTAL RETARDATION.....	5P01 HD05515-06	397,408
SIDMAN, MURRAY.....	MENTAL RETARDATION: BASIC AND APPLIED RESEARCH.....	2P01 HD05124-06	228,811
STODDARD, LAWRENCE T.....	AUTOMATED TEACHING PROGRAMS FOR THE SEVERELY RETARDED.....	1R01 HD10210-01	37,306
STOFFYN, PIERRE J.....	STRUCTURE OF GLYCOLIPIDS IN ONCOGENIC CELLS.....	5R01 CA17441-03	38,820
STOFFYN, PIERRE J.....	CHEMISTRY OF GLYCOLIPIDS.....	5R01 NS12060-02	57,504
ORGANIZATION TOTAL	18	2,106,083	
<b>WELLESLEY</b>			
<b>WELLESLEY COLLEGE ZIP CODE 02181</b>			
GAUTHIER, GERALDINE F.....	CYTOLOGICAL HETEROGENEITY OF SKELETAL MUSCLE FIBERS.....	5R01 AM17964-02	71,550
PADYKULA, HELEN A.....	CYCLIC UTERINE DIFFERENTIATION—ALBINO RAT AND HUMAN.....	5R01 HD09209-02	69,898
ORGANIZATION TOTAL	2	141,448	
<b>WILLIAMSTOWN</b>			
<b>WILLIAMS COLLEGE ZIP CODE 01267</b>			
CRISWELL, HUGH E.....	MORPHINE MICROINJECTION, ANALGESIA AND NEURAL FIRING.....	1R01 NS13147-01	26,094
DRICKAMER, LEE C.....	FACTORS AFFECTING SEXUAL MATURATION IN MAMMALS.....	5R01 HD08585-02	14,820



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
MC GILL, THOMAS E.....	THE GENETICS AND PHYSIOLOGY OF BEHAVIORAL DIFFERENCES.....	2R01 GM07495-15	42,151
ORGANIZATION TOTAL	3 83,065		
<b>WOODS HOLE</b>			
<b>MARINE BIOLOGICAL LABORATORY</b>	<b>ZIP CODE 02543</b>		
BALL, ERIC G.....	REGULATION OF METABOLISM.....	5R01 AM16793-03	3,104
BALL, ERIC G.....	REGULATION OF METABOLISM.....	5R01 AM16793-04	3,051
EDDS, KENNETH T.....	THE FORMATION AND FUNCTION OF MICROFILAMENTOUS BUNDLES.....	1R01 GM23351-01	53,549
FEIN, ALAN.....	MECHANISMS OF VISION.....	5R01 EY01362-02	44,016
OSCHMAN, JAMES L.....	CALCIUM AND THE CELL SURFACE.....	7R01 AM19189-01	52,164
STEPHENS, RAYMOND E.....	THE FORMATION AND FUNCTION OF MICROTUBULES.....	5R01 GM20644-03	36,042
STEPHENS, RAYMOND E.....	THE FORMATION AND FUNCTION OF MICROTUBULES.....	5R01 GM20644-04	41,361
ORGANIZATION TOTAL	7 233,287		
<b>WOODS HOLE OCEANOGRAPHIC INSTITUTION</b>	<b>ZIP CODE 02543</b>		
WATSON, STANLEY W.....	STRUCTURE & FUNCTION OF MEMBRANES IN NITRIFYING BACTERIA.....	5R01 GM11214-13	53,614
ORGANIZATION TOTAL	1 53,614		
<b>WORCESTER</b>			
<b>CLARK UNIVERSITY</b>	<b>ZIP CODE 01610</b>		
ERICKSON, KAREN L.....	CHEMICAL INVESTIGATION OF HAWAIIAN MARINE ALGAE.....	5R01 CA16267-02	50,901
GOODGLASS, HAROLD.....	NEW MEASURES OF APHASIC SYMPTOM VARIABLES.....	2R01 NS07615-16	58,663
GOODGLASS, HAROLD.....	NEW MEASURES OF APHASIC SYMPTOM VARIABLES.....	5R01 NS07615-17	59,708
SHERMAN, ROBERT G.....	DEVELOPMENT OF EMBRYONIC MYOCARDIAL CELLS.....	5R01 HL18267-02	45,836
STEIN, DONALD G.....	THE PSYCHOBIOLOGY OF AGING.....	1R01 AG00295-01	39,227
WHITESIDE, JOHN A.....	PERIPHERAL VISION IN CHILDREN AND ADULTS.....	1R01 HD09746-01	6,981
ORGANIZATION TOTAL	6 261,316		
<b>ST. VINCENT HOSPITAL</b>	<b>ZIP CODE 01610</b>		
DRISCOLL, WALTER G.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05660-02	47,511
FRIEDEL, GILBERT H.....	ADMINISTRATION OF THE NATIONAL BLADDER PROJECT.....	5R26 CA13859-05	284,630
FRIEDEL, GILBERT H.....	CENTRAL CYTOLOGY AND PATHOLOGY LABORATORY.....	5R26 CA15490-03	142,809
FRIEDEL, GILBERT H.....	STUDIES ON EXPERIMENTAL BLADDER TUMORS.....	5R26 CA15945-03	37,299
ORGANIZATION TOTAL	4 512,249		
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL</b>	<b>ZIP CODE 01605</b>		
BRATT, MICHAEL A.....	TRANSCRIPTION AND TRANSLATION OF NDV RNA.....	5R01 AI12467-02	67,469
BRAVERMAN, LEWIS E.....	REGULATION OF THYROID FUNCTION, T4 AND T3 KINETICS.....	7R01 AM18919-01	16,400
BROWN, NEAL C.....	A MOLECULAR PROBE FOR THE STUDY OF DNA REPLICATION.....	5R01 CA15915-03	42,162
BROWN, NEAL C.....	THE STRUCTURE AND FUNCTION OF A DNA REPLICASE.....	2R01 CA15915-04	72,785
BULGER, RUTH E.....	EVOLUTION OF RENAL ULTRASTRUCTURE AND FUNCTION.....	7R01 AM19471-01	50,719
BUTCHER, REGINALD W.....	CONTROL OF CYCLIC AMP LEVELS.....	5R01 AM13904-07	91,458
BUTCHER, REGINALD W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05712-05	66,707
CLARK, RICHARD B.....	CYCLIC AMP REGULATION.....	5R01 GM21420-03	22,573
COOKE, WILLIAM J.....	HEPATIC EXCRETION OF ANIONIC DRUGS.....	5R01 AM16552-03	28,275
DOBSON, JAMES G, JR.....	REGULATION OF CARDIAC CONTRACTILITY AND METABOLISM.....	1R01 HL18280-01A1	34,754
DUNN, EDWARD J.....	A SEGMENTAL POROUS PROSTHETIC IMPLANT FOR LONG BONES.....	7R01 AM20059-01	26,430
FAY, FREDRIC S.....	GENERATION AND REGULATION OF FORCE IN SMOOTH MUSCLE.....	5R01 HL14523-05	65,103
FEINBLATT, JOEL D.....	STUDY OF SECRETION AND SYNTHESIS OF CALCITONIN.....	5R01 AM16550-03	22,783
FLATT, JEAN-PIERRE.....	FAT MOBILIZATION AND PROTEIN SPARING THERAPY.....	5R01 AM17456-03	66,900
FLATT, JEAN-PIERRE.....	FAT MOBILIZATION AND PROTEIN SPARING THERAPY.....	2R01 AM17456-04	59,128
GACEK, RICHARD R.....	THE VESTIBULAR NUCLEI AND THEIR CONNECTIONS.....	5R01 NS12509-02	25,183
GOODMAN, H MAURICE.....	THE ROLE OF HORMONES IN STRESS.....	5R01 AM17496-03	60,036
GOODMAN, H MAURICE.....	MECHANISM OF ACTION OF GROWTH HORMONE.....	1R01 AM19392-01	58,850
GRIGG, PETER.....	SEGMENTAL REFLEXES MEDIATED BY JOINT AFFERENT NEURONS.....	2R01 NS10783-04	34,559
HOPPER, ANITA K.....	YEAST MUTANTS IN tRNA TRANSCRIPTION AND MATURATION.....	1R01 GM23209-01	40,640
LIKE, ARTHUR A.....	ULTRASTRUCTURAL AND PHYSIOLOGIC STUDIES OF DIABETES.....	7R01 AM19155-01	104,074

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MASSACHUSETTS—Continued</b>			
LIKE, ARTHUR A.....	ULTRASTRUCTURAL AND PHYSIOLOGIC STUDIES OF DIABETES.....	5R01 AM19155-02	113,178
MAJNO, GUIDO.....	CARDIOVASCULAR PATHOLOGY.....	5R01 HL16952-03	63,091
MARINUS, MARTIN G.....	FUNCTION OF METHYLATED BASES IN NUCLEIC ACIDS.....	5R01 GM22055-02	28,793
MARKS, SANDY C, JR.....	THE ROLE OF THE OSTEOCLAST IN TOOTH ERUPTION.....	5R01 DE03818-03	22,248
MC GUIRE, ROBERT F.....	INTERACTION OF HORMONES WITH CELL SURFACE MEMBRANES.....	5R01 GM22583-02	33,405
MILLER, THOMAS B, JR.....	REGULATION OF HEPATIC GLYCOGEN SYNTHESIS.....	5R01 AM18269-02	27,302
MILLER, THOMAS B, JR.....	EFFECTS OF DIABETES ON CARDIAC PERFORMANCE.....	1R01 HL20476-01	61,947
MULROY, MICHAEL J.....	INNERVATION OF THE INNER EAR.....	1R01 NS12801-01	31,430
PARKER, DAVID C.....	ACTIVATION OF MOUSE B CELLS BY INSOLUBLE ANTI-IG.....	1R01 AI13447-01	43,050
PECHET, LIBERTO.....	PURIFIED HUMAN CLOTTING FACTOR IX: IMMUNOLOGIC STUDIES.....	5R01 HL17752-02	23,123
PURTILLO, DAVID T.....	HUMAN URINARY BLADDER TUMOR ANTIGENS.....	5R26 CA16969-02	56,265
SCHNEIDER, FREDERICK H.....	NEUROTRANSMITTERS IN NORMAL AND NEOPLASTIC CELLS.....	7R01 NS12970-01	33,897
SINGER, ROBERT H.....	MESSANGER RNA METABOLISM IN DIFFERENTIATING CELLS.....	5R01 NS11329-02	39,812
SINGER, ROBERT H.....	MESSANGER RNA METABOLISM IN DIFFERENTIATING CELLS.....	5R01 NS11329-03	40,937
SMITH, M SUSAN.....	CONTROL OF GONADOTROPIN SECRETION DURING LACTATION.....	5R01 HD09442-02	34,644
SUSSKIND, MIRIAM M.....	INTERACTING REGULATORS OF GENE EXPRESSION.....	1R01 GM22877-01	46,346
TIPPER, DONALD J.....	CONTROL OF BACTERIAL CELL-WALL SYNTHESIS AND BREAKDOWN.....	5R01 AI10806-03	47,259
TIPPER, DONALD J.....	INHIBITORS OF YEAST RNA POLYMERASES.....	5R01 GM20755-02	29,796
WAUD, DOUGLAS R.....	STUDY OF DRUG-RECEPTOR INTERACTIONS.....	5R01 NS12255-02	27,568
WAUD, DOUGLAS R.....	STUDY OF DRUG-RECEPTOR INTERACTIONS.....	2R01 NS12255-03	33,919
WOLF, MERRILL K.....	DEVELOPMENT IN VITRO OF NORMAL AND MUTANT CNS.....	5R01 NS11425-03	57,072
WRIGHT, GEORGE E.....	STRUCTURE OF NOVEL INHIBITORS OF A DNA REPLICASE.....	5R01 GM21747-03	15,485
ORGANIZATION TOTAL	43	1,967,555	
<b>WORCESTER POLYTECHNIC INSTITUTE ZIP CODE 01609</b>			
BROWNE, DOUGLAS T.....	ENZYME CONFORMATION AND MECHANISM.....	5R01 GM22008-02	29,825
DANIELLI, JAMES F.....	EXPERIMENTAL AND THEORETICAL STUDIES OF CELL SENESCENCE.....	7P01 AG00544-01	135,789
ORGANIZATION TOTAL	2	165,614	
STATE TOTAL	1,480	151,282,874	
<b>MICHIGAN</b>			
<b>ANN ARBOR</b>			
<b>UNIVERSITY OF MICHIGAN ZIP CODE 48104</b>			
AGRANOFF, BERNARD W.....	PHOSPHOLIPIDS OF THE NERVOUS SYSTEM.....	5R01 NS03101-16	81,003
ALLEN, SALLY L.....	GENETICS OF TETRAHYMENA AND PAREMECIUM.....	5R01 GM15879-19	62,840
ALPERN, MATHEW.....	PSYCHOPHYSIOLOGICAL STUDIES OF OCULAR ABNORMALITIES.....	5R01 EY00197-18	100,839
ALPERN, MATHEW.....	PSYCHOPHYSIOLOGICAL STUDIES OF OCULAR ABNORMALITIES.....	5R01 EY00197-19	133,909
AMINOFF, DAVID.....	BIOSYNTHESIS AND DEGRADATION OF BLOOD GROUP SUBSTANCES.....	3R01 AM07305-12S1	5,058
AMINOFF, DAVID.....	BIOSYNTHESIS AND DEGRADATION OF BLOOD GROUP SUBSTANCES.....	2R01 HL17881-13A1	93,434
ASGAR, KAMAL.....	VARIOUS PHASES IN CHROMIUM-COBALT ALLOYS.....	5R01 DE02017-12	57,028
ASGAR, KAMAL.....	VARIOUS PHASES IN CHROMIUM-COBALT ALLOYS.....	5R01 DE02017-13	60,386
ASHE, ARTHUR J, III.....	PHOSPHORUS ANALOGUES OF BIOLOGICALLY ACTIVE PYRIDINES.....	5R01 GM20992-02	19,489
AVERY, JAMES K.....	ROLE OF NERVES IN DENTINOGENESIS.....	5R01 DE01604-13	44,642
AVERY, JAMES K.....	DEVELOPMENT SUPPORT FOR DENTAL RESEARCH INSTITUTE.....	5P50 DE02731-10	1,340,611
BAKER, BURTON L.....	HYPOPHYSEAL RESPONSE TO ESTROGENS AND PROGESTINS.....	5R01 HD03159-09	52,353
BALLOU, DAVID P.....	RAPID KINETICS STUDY OF BIOLOGICAL OXYGEN ACTIVATION.....	5R01 GM20877-02	33,204
BEAUDOIN, ALLAN R.....	MECHANISMS OF ACTION OF CHEMICAL TERATOGENS.....	5R01 HD00400-14	38,355
BEIERWALTES, WILLIAM H.....	RADIONUCLIDES: RADIATION, DETECTION AND MEASUREMENT.....	5R01 GM16188-07	81,386
BERNSTEIN, ISADORE A.....	NEOPLASTIC AND HYPERPLASTIC EPIDERMAL METABOLISM.....	5R01 AM15206-05	120,007
BERNSTEIN, ISADORE A.....	EPIDERMAL BIOCHEMISTRY CONFERENCE.....	5R13 AM16751-02	8,288
BERNSTEIN, ISADORE A.....	IN VITRO CHEMICAL CARCINOGENESIS.....	1R01 CA19988-01	125,886
BERNSTEIN, ISADORE A.....	EFFECT OF CHLORAMPHENICOL ON CCL-INDUCED LIVER DAMAGE.....	5R01 ES01024-03	76,717
BOHR, DAVID F.....	VASCULAR CHANGES IN HYPERTENSIVE SWINE.....	5R01 HL03756-18	69,871
BOHR, DAVID F.....	MECHANISMS OF VASCULAR CHANGES IN HYPERTENSION.....	1P01 HL18575-01	402,818
BRADLEY, ROBERT M.....	FUNCTIONAL DEVELOPMENT OF THE GUSTATORY SENSE.....	5R01 HD07483-03	46,660

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
BRINKLEY, LINDA	TISSUE INTERACTION IN PALATAL SHELF CLOSURE	5R01 DE02774-09	59,610
BRUCKMAN, WILLIAM W.	ROLE OF SV40 GENE A IN CELLULAR TRANSFORMATION	1R01 CA19816-01	71,444
BULL, FRANCES E.	COOPERATIVE STUDY OF CANCER	3R10 CA14485-03S1	33,484
BURCKHALTER, JOSEPH H.	POTENTIAL ANTIVIRAL AND ANTINEOPLASTIC AGENTS	5R01 CA16219-03	66,531
BURCKHALTER, JOSEPH H.	METABOLIC STUDY OF A HYPOCHOLESTEREMIC PYRIDINE	2R01 GM19815-04	59,664
BURCKHALTER, JOSEPH H.	METABOLIC STUDY OF A HYPOCHOLESTEREMIC PYRIDINE	5R01 GM19815-05	54,388
BURDI, ALPHONSE R.	PRENATAL ORIGINS OF POSTNATAL DENTOFACIAL VARIABILITY	2R01 DE03443-05A1	62,405
CAPLAN, ROBERT D.	ROLE OF A SUPPORTING PARTNER IN ADHERENCE	5R25 HL18418-02	122,241
CARLSON, BRUCE M.	ADAPTIVE MECHANISMS IN EARLY MUSCLE TRANSPLANTS	1R01 NS13116-01	50,347
CASEY, KENNETH L.	CRANIAL SOMATIC AND VISCERAL PAIN: CENTRAL MECHANISMS	5R01 NS12015-02	53,800
CASEY, KENNETH L.	NEURAL MECHANISMS OF THERMAL PAIN	5R01 NS12581-02	26,540
CASTOR, C WILLIAM	CONNECTIVE TISSUE ACTIVATION IN RHEUMATIC DISEASES	5R01 AM10728-10	89,958
CASTOR, C WILLIAM	PATHOGENESIS OF INFLAMMATION IN THE LUNG	1R01 HL19685-01	85,441
CHAMBERS, DONALD A.	MOLECULAR MEDIATORS OF ORAL DISEASE	5R01 DE04373-02	58,263
CHRISTENSEN, HALVOR N.	SITES AND REACTANTS IN AMINO ACID TRANSPORT	5R01 HD01233-21	113,255
CHU, ERNEST H.	GENETIC CONTROL OF MAMMALIAN CELL METABOLISM	5R01 GM20608-03	46,336
CLAFLIN, J LATHAM	CLONAL NATURE OF IMMUNE RESPONSES TO PHOSPHORYLCHOLINE	5R01 AI12533-02	42,884
CLEWELL, DON B.	STRUCTURE AND REPLICATION OF BACTERIAL PLASMIDS	5R01 AI10318-05	25,558
CLEWELL, DON B.	STRUCTURE AND REPLICATION OF BACTERIAL PLASMIDS	5R01 AI10318-06	13,276
COHAN, BRUCE E.	CONTOURING THE HUMAN OPTIC DISC	5R01 EY01076-04	76,437
COHEN, BENNETT J.	SUPPORT FOR ANIMAL-CARE FACILITY	2P40 RR00200-12	181,958
COHEN, BENNETT J.	SUPPORT FOR ANIMAL-CARE FACILITY	5P40 RR00200-13	188,437
COHEN, BENNETT J.	ANIMAL RESOURCE IMPROVEMENTS	3P40 RR00940-01S1	6,705
CONNELLY, THOMAS G.	IRIS-LENS METAPLASIA IN VITRO: ROLE OF THE PITUITARY	5R01 HD08150-02	23,813
COON, MINOR J.	FUNCTION OF HYDROXYLASES AND OTHER OXIDATIVE ENZYMES	2R01 AM10339-11	106,218
CORBETT, THOMAS H.	TERATOGENICITY OF ANESTHETICS	5R01 HD08130-02	40,890
CORNISH, HERBERT H.	METABOLISM OF POTENTIAL CARCINOGENS	5R01 CA15082-03	44,469
COUNSELL, RAYMOND E.	POTENTIAL TUMOR OR ORGAN IMAGING AGENTS	5R01 CA08349-10	107,014
COUNSELL, RAYMOND E.	REGULATORS OF CATECHOLAMINE AND STEROID BIOSYNTHESIS	3R01 HL11274-08S1	3,595
CRAIG, ROBERT G.	WEAR OF TOOTH ENAMEL, COMPOSITES AND AMALGAM	5R01 DE03416-05	54,237
CRAIG, ROBERT G.	HYDROPHOBIC FLUORINE-CONTAINING RESTORATIVE POLYMERS	5R01 DE04050-02	43,087
D'ALECY, LOUIS G.	CARDIOVASCULAR REFLEXES FOR CEREBRAL CIRCULATION	5R01 NS12386-02	19,699
DANTZKER, DAVID R.	GAS EXCHANGE IN ACUTE RESPIRATORY FAILURE	1R01 HL19449-01	52,431
DATTA, PRASANTA	CHANGES IN THE CELL SURFACE INDUCED BY TUMOR VIRUSES	5R01 CA16494-02	52,373
DATTA, PRASANTA	ALLOSTERIC ENZYMES AND METABOLIC REGULATION	5R01 GM21436-02	50,211
DAVENPORT, HORACE W.	DAMAGE AND REPAIR OF THE GASTRIC MUCOSAL BARRIER	5R01 AM08716-12	27,688
DAVENPORT, HORACE W.	DAMAGE AND REPAIR OF THE GASTRIC MUCOSAL BARRIER	5R01 AM08716-13	29,164
DEKKER, EUGENE E.	ENZYMIC PATHS AND MECHANISMS IN AMINO ACID METABOLISM	5R01 AM03718-17	71,962
DIKMAN, DICK J.	PATTERN PROFILES IN CLEFT LIP AND/OR PALATE	5R01 DE04253-02	49,198
EASTER, STEPHEN S, JR.	VISUAL MECHANISMS IN LOWER VERTEBRATES	5R01 EY00168-07	20,390
EVANS, F GAYNOR	STRUCTURE AND MECHANICAL PROPERTIES OF BONE	5R01 AM03865-17	62,867
FAJANS, STEFAN S.	PREDICTION AND LONG-TERM STUDY OF FUTURE DIABETES	5R01 AM00888-21	94,958
FAJANS, STEFAN S.	STUDIES IN CARBOHYDRATE METABOLISM	5R01 AM02244-18	102,537
FAULKNER, JOHN A.	CHARACTERISTICS OF MAMMALIAN WHOLE MUSCLE TRANSPLANTS	1R01 AM18727-01	46,107
FEE, JAMES A.	MECHANISMS OF SUPEROXIDE DISMUTASES	5R01 GM21519-02	49,666
FERRELL, WILLIAM J.	ALDEHYDOGENIC LIPIDS AND THIO-ETHERS IN HUMAN HEART	5R01 HL16200-03	6,775
FISHER, LESLIE J.	DEVELOPMENTAL ANALYSIS OF RETINAL SYNAPTIC ORGANIZATION	5R01 EY01281-02	27,041
FOLK, WILLIAM R.	MAMMALIAN CELL TRANSFORMATION BY ONCOGENIC VIRUSES	2R01 CA13978-04	58,986
FOSTER, DOUGLAS L.	REPRODUCTIVE ENDOCRINE DEVELOPMENT IN THE MONKEY	5R01 HD08636-03	69,739
FOSTER, DOUGLAS L.	MECHANISMS GOVERNING INITIATION OF OVULATION	5R01 HD09071-02	48,880
FREEDMAN, RONALD	FERTILITY AND FAMILY PLANNING IN TAIWAN	5R01 HD03002-09	218,849
FRETER, ROLF G.	ECOLOGIC CONTROL MECHANISMS OF NORMAL ENTERIC FLORA	5R01 AI07328-11	55,239
FRETER, ROLF G.	RESISTANCE AND IMMUNITY TO CHOLERA	5R22 AI07631-10	39,957
FRIEDMAN, DAVID I.	HOST & VIRAL INFLUENCES ON PHAGE LAMBDA DEVELOPMENT	2R01 AI11459-04	20,070
GARN, STANLEY M.	SOCIOECONOMIC AND GENETIC DETERMINANTS OF OBESITY	5R01 HD09538-02	79,874
GAY, HELEN	CHROMOSOME STRUCTURE IN RELATION TO GENE ACTION	5R01 GM10499-14	52,541
GOLDBERG, DAVID M.	POPULATION STUDIES CENTER	1P30 HD10003-01	145,649
GOLDSTEIN, IRWIN J.	PROTEIN-CARBOHYDRATE INTERACTION	2R01 AM10171-11	65,301
GREEN, DANIEL G.	FUNCTIONAL ORGANIZATION OF THE RETINA	5R01 EY00379-08	52,720
GREEN, DANIEL G.	FUNCTIONAL ORGANIZATION OF THE RETINA	5R01 EY00379-09	62,276



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
GREENBERG, G ROBERT	PHAGE INFECTION: DEOXYRIBONUCLEOTIDE & DNA BIOSYNTHESIS	5R01 AI08133-19	76,840
GRONVALL, JOHN A.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00042-16	1,080,881
GRONVALL, JOHN A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05383-15	261,305
GUMUCIO, JORGE J.	BILE SECRETION CHOLESTASIS AND MEMBRANE PROTEINS	5R01 AM18409-02	83,824
HAJRA, AMIYA K.	METABOLISM OF PHOSPHATIDIC ACID & ITS ANALOGS IN BRAIN	2R01 NS08841-07	70,300
HAJRA, AMIYA K.	METABOLISM OF PHOSPHATIDIC ACID & ITS ANALOGS IN BRAIN	5R01 NS08841-08	59,982
HAN, SEONG S.	SUBCELLULAR FATE OF GONADOTROPHIC HORMONES	5R01 HD09202-02	43,654
HAND, JAMES H.	GLASS-ELASTOMER COMPOSITE BIOMATERIALS	5R01 GM19664-03	16,524
HAND, JAMES H.	CERAMIC-ELASTOMER BIOMATERIALS	1R01 GM22447-01	32,231
HARRIS, JAMES E.	CRANIOFACIAL VARIATION AND MALOCCLUSION IN FAMILIES	2R01 DE03013-09A1	70,031
HARVIE, NANCY R.	LIPOPROTEIN-CYTOLYTIC TOXIN INTERACTION	5R01 HL17567-02	53,391
HARVIE, NANCY R.	LIPOPROTEIN-CYTOLYTIC TOXIN INTERACTION	5R01 HL17567-03	54,787
HAWKINS, JOSEPH E, JR.	MICROSCOPIC STUDIES OF THE INNER EAR	5R01 NS05065-12	62,784
HAWKINS, JOSEPH E, JR.	MICROSCOPIC STUDIES OF THE INNER EAR	2R01 NS05065-13	73,873
HAWKINS, JOSEPH E, JR.	DISORDERS OF COCHLEAR HOMEOSTASIS AND FUNCTION	1R01 NS12881-01	42,125
HELLING, ROBERT B.	COUPLING EUKARYOTIC GENES TO PROKARYOTIC PLASMIDS	5R01 GM21287-02	37,468
HEYN, RUTH M.	COOPERATIVE STUDY OF CANCER AMONG CHILDREN	5R10 CA02971-20	94,852
HEYN, RUTH M.	CLINICAL CANCER	1R25 CA19762-01	107,376
HICKS, SAMUEL P.	DEVELOPMENT OF CORTICOSPINAL SYSTEM	2R01 NS10531-04A1	11,575
HIGGINS, IAN T.	STUDY OF HUMAN AGING IN A DEFINED COMMUNITY	5R01 AG00481-02	35,396
HIGGINS, MILICENT W.	HIGH BLOOD PRESSURE IN YOUNG PEOPLE IN TECUMSEH	1R01 HL19962-01	275,185
HIGUCHI, WILLIAM I.	MECHANISMS OF CHOLESTEROL GALLSTONE DISSOLUTION RATES	5R01 AM16669-03	40,773
HIGUCHI, WILLIAM I.	QUANTITATION OF ENAMEL DEMINERALIZATION MECHANISMS	5R01 DE01830-14	75,026
HOFFMAN, LOIS W.	THE VALUE OF CHILDREN IN THE UNITED STATES	3R01 HD08287-01S2	87,004
HOOBLER, SIBLEY W.	RENIN INHIBITORS AND PROSTAGLANDINS IN HYPERTENSION	5R01 HL15710-03	36,035
HULTQUIST, DONALD E.	REDOX SYSTEMS OF ERYTHROCYTES	5R01 AM09250-11	48,329
JACKSON, DAVID A.	GENE TRANSFER MEDIATED BY ONCOGENIC VIRUS DNA	5R01 CA13168-05	51,119
JACKSON, ETHEL N.	VIRAL REGULATORY MECHANISMS IN INFECTION AND LYSOGENY	5R01 AI12369-02	42,339
JACKSON, ETHEL N.	VIRAL REGULATORY MECHANISMS IN INFECTION AND LYSOGENY	5R01 AI12369-03	43,701
JOHNSON, LARS-GORAN	CALCIUM TURNOVER IN OTOLITHIC MEMBRANES	5R01 NS11672-03	11,802
JOHNSON, LARS-GORAN	COCHLEAR NERVE DEGENERATION IN DEAFENED EARS	5R01 NS12706-02	55,722
JONES, GEORGE H.	CONTROL OF PROTEIN SYNTHESIS IN TUMORS	5R01 CA12752-05	30,756
JOURDAN, GEORGE W.	BIOCHEMISTRY OF MUCOPOLYSACCHARIDES	5R01 AM10531-11	46,327
JUNI, ELLIOT	METABOLISM, PHYSIOLOGY, AND EVOLUTION OF ACINETOBACTER	5R01 AI10107-05	68,490
JUNI, ELLIOT	METABOLISM, PHYSIOLOGY, AND EVOLUTION OF ACINETOBACTER	2R01 AI10107-06	77,048
KAHN, RAYMOND H.	LUNG ORGAN CULTURE AND SURFACTANT BIOSYNTHESIS	1R01 HL19669-01	87,516
KARSCH, FRED J.	ROLE OF ESTROGEN IN FUNCTIONAL LUTEOLYSIS IN PRIMATES	2R01 HD07689-04	64,039
KELCH, ROBERT P.	REGULATION OF ESTROGEN PRODUCTION BY MAMMALIAN TESTES	5R01 HD07690-03	29,553
KELLEY, WILLIAM N.	REGULATION OF PURINE METABOLISM IN HUMAN CELLS	1R01 AM19045-01	140,579
KELLEY, WILLIAM N.	REGULATION OF PURINE METABOLISM IN HUMAN CELLS	5R01 AM19045-02	119,506
KELLEY, WILLIAM N.	SPECIFIC POLYSOME ISOLATION IN HUMAN CELLS	7R01 AM19165-01	45,230
KELLEY, WILLIAM N.	SPECIFIC POLYSOME ISOLATION IN HUMAN CELLS	5R01 AM19165-02	45,892
KEYES, JOHN W, JR.	RADIONUCLIDE QUANTITATIVE SPATIAL IMAGING	3R01 GM22678-01S1	8,295
KEYES, PAUL L.	REGULATION OF OVARIAN FUNCTION DURING PREGNANCY	5R01 HD07127-05	49,842
KNODEL, JOHN E.	POPULATION DYNAMICS IN FOUR GERMAN VILLAGES	1R01 HD10178-01	44,119
KOPELMAN, RAOUL	EXCITATIONS IN CONDENSED MOLECULAR AGGREGATES	5R01 NS08116-09	72,719
KORAN, ANDREW, III	MAXILLOFACIAL MATERIALS - COLOR STUDY	5R01 DE04136-02	59,000
KRIMM, SAMUEL	STUDIES OF HUMAN ERYTHROCYTE MEMBRANE STRUCTURE	1R01 HL18737-01	70,834
LANDS, WILLIAM E.	CONSEQUENCES OF SELECTIVE FATTY ACID ESTERIFICATION	5R01 AM05310-15	61,773
LANDS, WILLIAM E.	CONSEQUENCES OF SELECTIVE FATTY ACID ESTERIFICATION	5R01 AM05310-16	57,684
LAWRENCE, MERLE	STUDY OF CAUSES OF DEAFNESS	5P01 NS05785-11	692,231
LAWRENCE, MERLE	STUDY OF CAUSES OF DEAFNESS	5P01 NS05785-12	736,723
LAWRENCE, MERLE	CONTROL OF THE INNER EAR MICROCIRCULATION	5R01 NS11731-03	53,067
LEE, RONALD D.	POPULATION DYNAMICS IN PREINDUSTRIAL ENGLAND	2R01 HD08586-03	28,241
LEVINE, MYRON	STUDY OF CELLULAR AND BIOCHEMICAL GENETICS	5P01 GM15419-09	854,413
LOESCHE, WALTER J.	EFFECT OF CHEMOTHERAPY ON PLAQUE AND MICROBIAL ECOLOGY	5R01 DE03011-08	104,744
LOESCHE, WALTER J.	ANALYSIS OF NORMAL AND DISEASE-ASSOCIATED PLAQUE	2R01 DE03423-04	21,201
LOESCHE, WALTER J.	WORKSHOP ON MICROBIAL ASPECTS OF DENTAL CARIES	1R13 DE04453-01	68,350
LOUIS, LAWRENCE H.	NEW DIABETOGENIC PEPTIDE FROM HUMAN PITUITARY GLANDS	5R01 AM16529-03	61,714
LUCCHESI, BENEDICT R.	ANALYSIS OF ANTIARRHYTHMIC AGENTS	5R01 HL05806-16	25,982



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
LUDWIG, MARTHA L.	STRUCTURE AND ACTIVITY OF ENZYMES IN CRYSTALLINE STATE	5R01 GM16429-08	89,308
LUDWIG, MARTHA L.	STRUCTURE AND ACTIVITY OF ENZYMES IN CRYSTALLINE STATE	5R01 GM16429-09	86,410
MALVIN, RICHARD L.	RENAL TUBULAR REABSORPTION OF SODIUM AND WATER	5R01 AM05077-15	92,947
MANN, WILLIAM R.	BIOMEDICAL RESEARCH SUPPORT GRANT	5507 RR05321-15	52,668
MASON, MERLE	REGULATION OF TRYPTOPHAN AND LYSINE CATABOLISM	1R01 AM18647-01A1	42,450
MASSEY, VINCENT	STUDIES ON BIOLOGICAL OXIDATION MECHANISMS	5R01 GM11106-13	133,909
MASSEY, VINCENT	STUDIES ON BIOLOGICAL OXIDATION MECHANISMS	5R01 GM11106-14	147,425
MATHEWS, KENNETH P.	CLINICAL STUDY OF ALLERGIC DISEASES	5P50 AI10391-05	56,464
MATOVINOVIC, JOSIP	STUDIES OF EPIGENETIC PROCESSES IN THYROID CARCINOMA	5R01 CA15775-03	47,806
MC DONOUGH, PETER J.	ELITE AND MASS PREFERENCES ON BIRTH CONTROL IN BRAZIL	2R01 HD09126-02	46,401
MC NAMARA, JAMES A, JR.	ADAPTATIONS TO CHANGES IN MASTICATORY MUSCLE LENGTH	5R01 DE04227-02	62,430
MC REYNOLDS, JOHN S.	FUNCTIONAL ORGANIZATION OF THE VERTEBRATE RETINA	1R01 EY01653-01	45,689
MELVIN, JOHN W.	BIOMECHANICS OF CERVICAL SPINE INJURY	5R01 AM16869-03	96,705
MENGE, ALAN C.	IMMUNOLOGICAL-INDUCED INFERTILITY	5R01 HD05200-05	65,967
MENON, K M JAYARAM	REGULATION OF OVARIAN FUNCTION BY GONADOTROPINS	2R01 HD06656-04	54,532
MENON, K M JAYARAM	GONADOTROPIN RELEASING FACTOR REGULATION OF LH RELEASE	5R01 HD07729-03	37,935
MIDGLEY, A REES, JR.	HORMONES IN REPRODUCTION: A PROGRAM PROJECT	5P50 HD08333-03	388,955
MISTRETTA, CHARLOTTE M	NERVE-EPITHELIUM INTERACTION IN OROFACIAL DEVELOPMENT	1R01 DE04491-01	40,550
MONTO, ARNOLD S.	STUDY OF HUMAN CORONAVIRUSES	5R01 AI11829-03	68,724
MORRIS, MICHAEL D.	ANALYTICAL APPLICATIONS OF THE RESONANCE RAMAN EFFECT	1R01 GM22604-01	38,711
MOLW, DAVID R.	LEAD: ITS RENAL HANDLING, RENIN AND ERYTHROPOIETIN	5R01 ES01141-02	70,183
MOLW, DAVID R.	MECHANISMS OF CNS-INDUCED CHANGES IN SODIUM EXCRETION	1R01 NS12825-01	59,146
MOYERS, ROBERT E.	STUDY OF CRANIOFACIAL GROWTH AND DEVELOPMENT	5P01 DE03610-10	172,307
MURPHY, WILLIAM H.	MECHANISMS OF IMMUNITY IN LEUKEMIA	2R01 CA13701-04	75,868
MURPHY, WILLIAM H.	MECHANISMS OF IMMUNITY IN LEUKEMIA	5R01 CA13701-05	78,015
MURPHY, WILLIAM H.	IMMUNOBIOLOGY OF AGE-DEPENDENT CNS DISEASE	3R01 NS09933-05S1	12,561
NACE, GEORGE W.	AMPHIBIANS FOR HEALTH-RELATED RESEARCH	2P40 RR00572-06	152,126
NACE, GEORGE W.	DEVELOPING AND IMPROVING AMPHIBIAN RESOURCES	1P40 RR01019-01	111,697
NAPIER, EDWARD A, JR.	METABOLISM OF COMMON PLASTICIZERS	5R01 GM19853-03	21,299
NAWROT, CHARLES F.	NUCLEATION OF CALCIFICATION BY HARD TISSUE COLLAGEN	7R01 AM19385-01	3,649
NAWROT, CHARLES F.	NUCLEATION OF CALCIFICATION BY HARD TISSUE COLLAGEN	5R01 AM19385-02	28,723
NAWROT, CHARLES F.	COLLAGEN-MINERAL PHASE INTERACTIONS IN DENTIN	7R01 DE04538-01	34,420
NEIDHARDT, FREDERICK C.	REGULATION OF BACTERIAL METABOLISM	5R01 GM17892-06	47,063
NEIDHARDT, FREDERICK C.	REGULATION OF BACTERIAL METABOLISM	5R01 GM17892-07	56,505
NIEDERHUBER, JOHN E.	IMMUNE RESPONSES IN VITRO-H-2 (IR) LOCUS FUNCTION	7R01 AI14006-01	44,864
NORDMAN, CHRISTER E.	X-RAY STRUCTURE ANALYSIS OF BIOLOGICAL COMPOUNDS	5R01 GM15259-13	88,240
NORTHUTT, RICHARD G.	EVOLUTION OF THE TELENCEPHALON	5R01 NS11006-04	34,510
NORTHUTT, RICHARD G.	EVOLUTION OF THE TELENCEPHALON	5R01 NS11006-05	37,235
O'BRIEN, WILLIAM J.	CAPILLARY PHENOMENA RELATED TO CARIES SITES	5R01 DE03480-05	81,944
OAKLEY, BRUCE	NEURAL PLASTICITY IN TASTE AND CUTANEOUS SENSES	5R01 NS07072-10	51,349
ONCLEY, J LAWRENCE	BIOPHYSICAL STUDIES OF PROTEINS	3R01 HL09739-10S1	26,501
ONCLEY, J LAWRENCE	BIOPHYSICAL STUDIES OF PROTEINS	2R01 HL09739-11	61,230
OSTRANDER, LEON D, JR.	DIABETES, HYPERGLYCEMIA AND CARDIOVASCULAR DISEASE	1R01 HL20508-01	317,042
OVERBERGER, CHARLES G.	SYNTHETIC MACROMOLECULES AS ANTITUMOR AGENTS	5R01 CA12231-05	48,465
OVERBERGER, CHARLES G.	CATALYSIS AND REACTIVITY OF POLYMERIC IMIDAZOLES	5R01 GM15256-08	57,100
OVERBERGER, CHARLES G.	CATALYSIS AND REACTIVITY OF POLYMERIC IMIDAZOLES	5R01 GM15256-09	57,919
OVERBERGER, CHARLES G.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5507 RR07050-11	150,690
OXENDER, DALE L.	MEMBRANE TRANSPORT COMPONENTS IN BACTERIA	2R01 GM11024-13	74,228
OXENDER, DALE L.	TRANSPORT COMPONENTS FROM EUKARYOTES	5R01 GM20737-03	42,085
PAUL, ARA G.	BIOMEDICAL RESEARCH SUPPORT GRANT	5507 RR05571-12	24,544
PAYNE, ANITA H.	ROLE OF STEROID SULFATES IN GONADAL TISSUE	3R01 HD04064-07S1	11,002
PAYNE, ANITA H.	ROLE OF STEROID SULFATES IN GONADAL TISSUE	5R01 HD04064-08	84,766
PAYNE, ANITA H.	MECHANISM OF ACTION OF GONADOTROPINS IN THE TESTIS	5R01 HD08358-02	70,936
PAYNE, FRANCIS E.	VIRAL SUBACUTE AND CHRONIC NERVOUS SYSTEM DISEASE	5R01 NS09547-06	81,266
PAYNE, FRANCIS E.	VIRAL SUBACUTE AND CHRONIC NERVOUS SYSTEM DISEASE	2R01 NS09547-07	86,142
PRATT, WILLIAM B.	STEROID RECEPTORS IN MOUSE CELLS CULTURED IN VITRO	5R01 CA16041-02	35,021
RADIN, NORMAN S.	CHEMOTHERAPY AND MODELS OF HERITABLE SPHINGOLIPIDOSES	5R01 HD07406-03	28,376
RADIN, NORMAN S.	BRAIN GLYCOLIPIDS: METABOLISM AND PATHOLOGY	5R01 NS03192-17	154,734
REMINGTON, RICHARD D.	BIOMEDICAL RESEARCH SUPPORT GRANT	5507 RR05447-15	82,173
RHODIN, JOHANNES A.	MICROSCOPY OF SPONTANEOUSLY HYPERTENSIVE ARTERIAL LESION	1R01 HL18831-01	103,167

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
RICHARDS, JOANNE S.....	OVARIAN FOLLICULAR DEVELOPMENT AND HORMONE ACTION.....	1R01 HD09110-01A1	67,841
RIGGS, THOMAS R.....	ACTION OF HORMONES ON AMINO ACID TRANSPORT SYSTEMS.....	5R01 AM03709-16	39,693
RIZKI, TAHIR M.....	INCORPORATION OF BUdR INTO DNA AND NEOPLASTIC GROWTH.....	5R01 CA12600-06	52,995
RIZKI, TAHIR M.....	CELL INTERACTIONS IN HEREDITARY TUMORS OF DROSOPHILA.....	5R01 CA16619-02	24,700
ROSENSTOCK, IRWIN M.....	ADHERENCE TO HYPERTENSIVE MEDICAL REGIMENS.....	5R25 HL18406-02	188,289
RUDDON, RAYMOND W.....	ROLE OF ACIDIC NUCLEAR PROTEINS IN ENZYME INDUCTION.....	5R01 GM19863-03	26,509
RUTLEDGE, LESTER T.....	NEURAL MECHANISMS ASSOCIATED WITH LEARNING.....	5R01 NS04119-13	41,298
SANDS, RICHARD H.....	REDOX REACTIONS BY OPTICAL AND EPR SPECTROMETRY.....	5R01 GM12176-12	123,389
SANDS, RICHARD H.....	REDOX REACTIONS BY OPTICAL AND EPR SPECTROMETRY.....	5R01 GM12176-13	150,380
SCHIEDER, WALTER.....	STOPFLOW DIELECTRIC STUDY OF PROTEIN BINDING KINETICS.....	5R01 GM22309-02	34,780
SCHMICKEL, ROY D.....	ISOLATION AND CHARACTERIZATION OF HUMAN RIBOSOMAL DNA.....	5R01 HD04569-06	45,126
SCHULTZ, JANE S.....	IMMUNOGENETIC AND CYTOLOGICAL STUDY OF TISSUE GRAFTS.....	5R01 CA18638-02	38,635
SCHULTZ, JEROME S.....	PERMEABILITY OF MEMBRANES.....	5R01 GM15152-08	39,942
SELLINGER, OTTO Z.....	CEREBRAL METHYLATIONS IN NORMAL AND CONVULSIVE STATES.....	5R01 NS06294-09	92,948
SHAFFER, JULES A.....	MACROMOLECULES FOR ISOLATING PROTEIN ON CELL SURFACES.....	5R01 AI12625-02	51,480
SHAFFER, JULES A.....	REACTION MECHANISMS FOR ENZYMES.....	2R01 AM09276-12	63,264
SIMMONS, GEORGE B.....	MORTALITY AND FERTILITY IN UTTAR PRADESH, INDIA.....	1R01 HD09957-01	57,249
SISSON, JAMES C.....	MUCOPOLYSACCHARIDE METABOLISM IN EXOPHTHALMOS.....	5R01 AM17538-12	75,481
SMITH, AARON.....	CHANGING EFFECTS OF HEMISPHERECTOMY.....	5R01 NS10089-04	6,326
SOLOMON, WILLIAM R.....	ALLERGENICITY OF AIRBORNE PARTICULATES.....	5R01 AI10181-06	43,038
SPARKS, HARVEY V.....	DYNAMICS OF METABOLIC CONTROL OF MUSCLE BLOOD FLOW.....	5R01 HL14516-05	45,362
SPARKS, HARVEY V.....	DYNAMICS OF METABOLIC CONTROL OF MUSCLE BLOOD FLOW.....	5R01 HL14516-06	50,736
SPARKS, HARVEY V.....	DYNAMIC CONTROL OF CORONARY BLOOD FLOW.....	5R01 HL16760-03	54,495
SPARKS, HARVEY V.....	VASCULAR CONTROL IN EXPERIMENTAL DIABETES MELLITUS.....	1R01 HL20399-01	72,450
STEBBINS, WILLIAM C.....	LATENCY-INTENSITY FUNCTIONS IN THE AUDITORY SYSTEM.....	5R01 NS05077-13	83,438
SWAIN, MARY A.....	INFLUENCING COMPLIANCE AMONG HYPERTENSIVE PATIENTS.....	3R25 HL17045-01S1	54,952
VALENSTEIN, ELLIOT S.....	NEUROENDOCRINE REGULATION OF REPRODUCTIVE BEHAVIOR.....	5R01 HD08281-02	47,684
VOORHEES, JOHN J.....	MECHANISMS & THERAPY OF PSORIASIS: A PROGRAM PROJECT.....	5P01 AM15740-05	381,305
WALKER, SARA E.....	DRUG-INDUCED ONCOGENESIS IN AUTOIMMUNE NZB/NZW MICE.....	3R01 CA13297-04S1	2,515
WALKER, SARA E.....	DRUG-INDUCED ONCOGENESIS IN AUTOIMMUNE NZB/NZW MICE.....	5R01 CA13297-05	46,312
WEBER, WENDELL W.....	N-ACETYLATION OF DRUGS.....	5R01 GM21723-03	61,339
WEIDLER, DONALD J.....	CARDIAC DAMAGE & ARRHYTHMIAS AFTER CEREBRAL INFARCTION.....	5R01 HL17351-02	39,694
WEINHOLD, PAUL A.....	PHOSPHOLIPID METABOLISM DURING DEVELOPMENT.....	5R01 HD02871-10	39,475
WILLIAMS, CHARLES H, JR.....	PYRIDINE NUCLEOTIDE-DISULFIDE OXIDOREDUCTASES.....	5R01 GM21444-11	41,995
WILLIAMS, CHARLES H, JR.....	PYRIDINE NUCLEOTIDE-DISULFIDE OXIDOREDUCTASES.....	5R01 GM21444-12	52,636
WILLIAMS, WILLIAM J.....	DYNAMIC ANALYSIS OF THE PROPRIOCEPTIVE SYSTEM.....	5R01 NS08470-08	70,350
ZAJONC, R B.....	BIRTH ORDER, FAMILY SIZE AND INTELLECTUAL DEVELOPMENT.....	1R01 HD08986-01	61,965
ZAJONC, R B.....	BIRTH ORDER, FAMILY SIZE AND INTELLECTUAL DEVELOPMENT.....	5R01 HD08986-02	82,251
ZAND, ROBERT.....	BRAIN BILIRUBIN-EFFECTS ON GROWTH AND NEUROCHEMISTRY.....	5R01 NS11923-02	51,985
ORGANIZATION TOTAL	241	20,922,838	
<b>BERKLEY</b>			
WILLIAM BEAUMONT HOSPITAL	ZIP CODE 48072		
POULIK, MIROSLAV D.....	URINARY PROTEIN COMPONENTS-DIAGNOSTIC AND THEORETICAL.....	5R01 AI11335-05	35,840
ORGANIZATION TOTAL	1	35,840	
<b>DETROIT</b>			
CHILD RESEARCH CENTER OF MICHIGAN	ZIP CODE 48201		
KAPLAN, JOSEPH.....	T CELL LINE LEUKEMIA-ASSOCIATED ANTIGENS.....	5R01 CA17534-02	41,756
ORGANIZATION TOTAL	1	41,756	
HENRY FORD HOSPITAL	ZIP CODE 48202		
CARRETERO, OSCAR A.....	RENAL KALLIKREIN, BLOOD PRESSURE, AND RENAL FUNCTION.....	3R01 HL15839-03S1	3,035
DUKKER, BRUCE H.....	GYNECOLOGIC ONCOLOGY GROUP.....	5R10 CA13887-04	8,879
GOLDSTEIN, SIDNEY.....	PROSPECTIVE STUDY OF RESUSCITATED SUDDEN DEATH VICTIM.....	5R01 HL18800-02	86,609
HALVORSON, HERBERT R.....	RELAXATION KINETICS OF SUBUNIT INTERACTIONS.....	1R01 GM23302-01	26,452
SHORE, JOSEPH D.....	REGULATION OF HEART MITOCHONDRIAL MALATE DEHYDROGENASE.....	5R01 HL13035-07	33,372

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
TALLEY, ROBERT W.....	COOPERATIVE STUDY OF BREAST CANCER.....	3R10 CA03357-18S1	31,723
TALLEY, ROBERT W.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	5R10 CA04915-17	133,761
TALLEY, ROBERT W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05490-14	39,428
ORGANIZATION TOTAL	8 363,259		
<b>MICHIGAN CANCER FOUNDATION ZIP CODE 48201</b>			
BRENNAN, MICHAEL J.....	CLINICAL CANCER RESEARCH CENTER.....	5P01 CA07177-13	412,862
BRENNAN, MICHAEL J.....	DETROIT BREAST CANCER DEVELOPMENTAL RESEARCH UNIT.....	5P01 CA16175-02	287,492
CHLADEK, STANISLAV.....	THE STUDY OF PEPTIDYL TRANSFERASE RECOGNITION SITES.....	5R01 GM19111-05	43,373
CHLADEK, STANISLAV.....	RECOGNITION OF NORMAL AND NEOPLASTIC tRNA BY RIBOSOMES.....	5R01 GM21151-03	23,760
HOROWITZ, SAMUEL B.....	STERIOD - TARGET CELL INTERACTIONS: A NEW APPROACH.....	5R01 CA17456-02	50,653
HOROWITZ, SAMUEL B.....	REGULATION OF NUCLEAR-CYTOPLASMIC SOLUTE TRANSPORT.....	2R01 GM19548-05	109,311
HORWITZ, JEROME P.....	SULFOTRANSFERASES IN NORMAL AND CANCEROUS TISSUES.....	3R01 CA13645-03S1	5,706
HORWITZ, JEROME P.....	SPECIFICITY OF PAPS IN STEROID SULFATION.....	5R01 CA16716-02	45,331
HORWITZ, JEROME P.....	NMR AND EPR STUDIES OF ESTROGEN SULFOTRANSFERASES.....	5R01 CA16855-02	69,512
MAHER, VERONICA M.....	INTERACTION OF CARCINOGENS WITH DNA- REPAIR OF LESIONS.....	5R01 CA13058-05	67,372
MC GRATH, CHARLES M.....	ENDOGENOUS VIRUS AND HORMONES IN MAMMARY CANCER.....	1R01 CA18175-01	47,189
RICH, MARVIN A.....	STUDIES ON THE VIRAL ETIOLOGY OF CANCER.....	2R01 CA14100-04	139,463
RICH, MARVIN A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05529-14	94,704
ZEMLUCKA, JIRI.....	TRANSITION STATE MODELS OF PROTEIN SYNTHESIS.....	5R01 GM21093-02	31,336
ORGANIZATION TOTAL	14 1,428,064		
<b>SINAI HOSPITAL OF DETROIT ZIP CODE 48235</b>			
BECKMAN, HUGH.....	LASER GLAUCOMA SURGERY.....	5R01 EY00886-02	36,240
FOA, PIERO P.....	INSULIN, PANCREATIC & GUT GLUCAGON IN DIABETES MELLITUS.....	2R01 AM06034-15	49,639
FOA, PIERO P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05641-10	46,627
KANTROWITZ, ADRIAN.....	ASSISTED CIRCULATION.....	5P01 HL13737-06	510,597
KANTROWITZ, ADRIAN.....	ASSISTED CIRCULATION.....	5P01 HL13737-07	536,315
ORGANIZATION TOTAL	5 1,179,418		
<b>UNIVERSITY OF DETROIT ZIP CODE 48221</b>			
WEMPLE, JAMES N.....	SYNTHETIC ROUTES TO NEW THIOL ESTER DERIVATIVES.....	5R01 CA17719-02	20,981
ORGANIZATION TOTAL	1 20,981		
<b>WAYNE STATE UNIVERSITY ZIP CODE 48202</b>			
AGER, JOEL W.....	CONSEQUENCES OF TEEN CONTRACEPTIVE PROGRAM DROP OUT.....	5R01 HD09361-02	66,505
ARKING, ROBERT.....	GENETIC ANALYSIS OF PATTERN FORMATION IN DROSOPHILA.....	1R01 GM23327-01	30,051
BACH, ROBERT D.....	THE CHEMICAL BEHAVIOR OF ORGANOMERCURY COMPOUNDS.....	5R01 ES00761-05	39,584
BAGCHI, MIHIR.....	CELL BIOLOGY OF MAMMALIAN EYE LENS IN CULTURE.....	1R01 EY01848-01	26,964
BAGSHAW, JOSEPH C.....	TRANSCRIPTIONAL RESTRICTION IN EMBRYONIC DEVELOPMENT.....	5R01 GM21376-02	22,174
BERGUER, RAMON.....	GRADING OF ATHEROSCLEROSIS BY CW DOPPLER ULTRASOUND.....	1R01 HL19406-01	80,888
BOECKMAN, ROBERT K, JR.....	APPROACHES TO THE SYNTHESIS OF THE SESTERTERPENES.....	5R01 AI11662-03	32,340
BOECKMAN, ROBERT K, JR.....	SYNTHESIS OF CERULENIN AND RELATED ANTIBIOTICS.....	5R01 AI12302-02	21,255
BOECKMAN, ROBERT K, JR.....	SYNTHESIS OF THE POTENT ANTILEUKEMIC AGENT ADRIAMYCIN.....	5R01 CA15061-02	35,081
BOECKMAN, ROBERT K, JR.....	SYNTHESIS OF ANTILEUKEMIC AND ANTITUMOR LACTONES.....	1R01 CA17154-01A1	37,929
BOROS, DOV L.....	LYMPHOCYTE INTERACTIONS IN SCHISTOSOMIASIS MANSONI.....	1R22 AI12913-01	61,720
BOROS, DOV L.....	LYMPHOKINES IN PULMONARY GRANULOMATOUS INFLAMMATION.....	1R01 HL19732-01	30,383
BOROS, DOV L.....	PULMONARY GRANULOMATOUS INFLAMMATIONS.....	1R01 HL20104-01	63,063
BOYCE, CHARLES R.....	GYNECOLOGIC ONCOLOGY GROUP.....	2R10 CA12477-06	16,457
BROOKS, SAM C.....	UTERINE STEROID METABOLISM AND REPRODUCTIVE FUNCTION.....	5R01 HD08735-02	39,454
CHEN, YU M.....	SERUM TYROSINASE IN MALIGNANT DISEASE.....	5R01 CA16563-02	65,197
CHOE, BYUNG-KIL.....	IMMUNOCHEMICAL STUDIES OF PROSTATIC ACID PHOSPHATASE.....	1R26 CA18748-01	36,409
CHOE, BYUNG-KIL.....	IMMUNOCHEMICAL STUDIES OF PROSTATIC ACID PHOSPHATASE.....	5R26 CA18748-02	36,904
CROSSLAND, WILLIAM J.....	DEVELOPMENT AND MAINTENANCE OF VISUAL CONNECTIONS.....	1R01 EY01796-01	28,090
CURTIN, THOMAS J.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07051-11	53,428
ENDICOTT, JOHN F.....	REACTION MECHANISMS OF CYCLIC TETRAMINE COMPLEXES.....	5R01 AM14341-08	66,113
ESSNER, EDWARD S.....	THE ROLE OF LYSOSOMES IN CHEDIAK-HIGASHI SYNDROME.....	7R01 AM19386-01	37,598
ESSNER, EDWARD S.....	A CYTOCHEMICAL AND MORPHOLOGICAL STUDY OF COLON.....	7R26 CA19648-01	50,170
FOOR, W EUGENE.....	BASIC STUDIES IN REPRODUCTION.....	1R01 HD10280-01	51,938
FOX, CLEMENT A.....	THE FINE STRUCTURE OF THE NERVOUS SYSTEM.....	5R01 NS06925-11	55,335



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
FRANK, ROBERT N.....	RETINAL MICROVESSELS: TISSUE CULTURE AND BIOCHEMISTRY.....	1R01 EY01857-01	24,121
GLAROS, ALAN G.....	BEHAVIORAL CONTROL OF BRUXISM.....	1R23 DE04536-01	9,564
GOLDMAN, HAROLD.....	NEUROENDOCRINE MECHANISM CONTROLLING ORGAN PERFUSION.....	7R01 NS12851-01	30,067
GOLDMAN, HAROLD.....	NEUROENDOCRINE MECHANISM CONTROLLING ORGAN PERFUSION.....	5R01 NS12851-02	30,288
GORELIC, LESTER S.....	RADIATION EFFECTS: DNA TEMPLATE INACTIVATION AND REPAIR.....	5R01 CA18046-02	24,831
GROSSMAN, LAWRENCE I.....	MITOCHONDRIAL DNA FROM NEOPLASTIC AND NORMAL CELLS.....	5R01 GM21704-02	74,495
GROSSMAN, LAWRENCE I.....	GENES ON MITOCHONDRIAL DNA.....	1R01 GM22837-01	127,297
HOLLANDER, DANIEL.....	FAT SOLUBLE VITAMINS ABSORPTION EMPHASIZING VITAMIN K.....	3R01 AM17607-02S1	8,000
HOLLANDER, DANIEL.....	FAT SOLUBLE VITAMINS ABSORPTION EMPHASIZING VITAMIN K.....	2R01 AM17607-03	27,970
HULL, FRANKLIN E.....	BETA-HYDROXY FATTY ACID PRODUCTION BY ISCHEMIC HEART.....	5R01 HL14730-05	54,970
JOHNSON, JEAN E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05718-05	19,359
JOHNSON, ROBERT M.....	MOLECULAR ASPECTS OF ERYTHROCYTE MEMBRANE RESEALING.....	2R01 HL15793-04	37,915
KIMURA, TOKUJI.....	STUDIES ON STEROID HYDROXYLASES.....	2R01 AM12713-08	111,125
KING, ALBERT I.....	STRUCTURAL AND MECHANICAL PROPERTIES OF THE SPINE.....	2R01 GM20201-04	70,403
KITAI, STEPHEN T.....	EXPERIMENTAL STUDIES OF SENSORY PATHWAYS.....	2R01 NS00405-21	78,680
LEE, CHUAN-PU.....	SUBCELLULAR RESPIRATORY-FUNCTIONS OF CARDIAC MUSCLE.....	7R01 GM22751-01	63,319
LEE, CHUAN-PU.....	SUBCELLULAR RESPIRATORY-FUNCTIONS OF CARDIAC MUSCLE.....	5R01 GM21275-02	77,282
LEON, MYRON A.....	MYELOMA PROTEINS IMMUNOCHEMISTRY AND IMMUNOBIOLOGY.....	5R01 AI12700-02	80,091
LEON, MYRON A.....	BIOLOGICAL ACTIVITIES OF HOMOGENEOUS MITOGENS.....	9R01 CA20812-02	50,246
LEWIS, BENJAMIN M.....	PULMONARY TOXICITY OF BLEOMYCIN.....	5R01 HL17874-02	18,744
LIGHTBODY, JAMES J.....	IN VITRO STUDY OF HUMAN ALLOGRAFT IMMUNITY.....	5R01 AI11013-03	22,900
LIGHTBODY, JAMES J.....	STUDY OF PRESENSITIZATION IN KIDNEY TRANSPLANTS.....	5R01 AI11923-03	21,521
MAISEL, HARRY.....	A STUDY OF STRUCTURAL LENS PROTEINS.....	5R01 EY01417-02	40,323
MAISEL, HARRY.....	A STUDY OF STRUCTURAL LENS PROTEINS.....	5R01 EY01417-03	46,216
MARKS, BERNARD H.....	DISTRIBUTION AND METABOLISM OF LABELED DIGITALOIDS.....	2R01 HL17555-02	53,196
MARKS, BERNARD H.....	DISTRIBUTION AND METABOLISM OF LABELED DIGITALOIDS.....	5R01 HL17555-03	57,849
MARKS, BERNARD H.....	NEUROPHARMACOLOGY OF ISOLATED NEUROENDOCRINE SYSTEMS.....	5R01 NS11936-02	9,000
MC CAULEY, ROY B.....	IMMUNOCHEMICAL STUDIES OF MULTIPLE FORMS OF MAO.....	7R01 AM19701-01	33,755
MC CLAIN, WILLIAM M.....	POLARIZED RESONANCE RAMAN SCATTERING OF POLYMERS.....	5R01 GM21147-02	20,976
MILLETTE, ROBERT L.....	HERPES SIMPLEX VIRUS GENE REGULATION.....	1R01 CA21065-01	59,128
MITCHELL, ROBERT A.....	PATHWAYS FOR ATP SYNTHESIS AND UTILIZATION.....	5R01 GM19562-08	29,950
MIZUKAMI, HIROSHI.....	OXYGEN TRANSPORT OF PRE- AND POST-SICKLING CELLS.....	1R01 HL18928-01	47,647
PUTNEY, JAMES W, JR.....	CELLULAR PHARMACOLOGY OF SALIVARY SECRETION.....	5R01 DE04067-02	31,303
RABAN, MORTON.....	IONIC BONDING CONFORMATIONAL BEHAVIOR OF ENOLATE ANIONS.....	1R01 GM22594-01	24,129
RAUCH, HELENE C.....	IMMUNOLOGIC RESPONSES IN DEMYELINATING DISEASES.....	5R01 NS12754-02	71,524
RILLEMA, JAMES A.....	REGULATION OF METABOLISM IN MAMMARY GLAND TUMORS.....	5R01 CA18296-02	38,002
RILLEMA, JAMES A.....	HORMONAL CONTROL OF METABOLISM IN THE MAMMARY GLAND.....	5R01 HD06571-05	32,521
RORABACHER, DAVID B.....	STERIC AND MATRIX EFFECTS IN COORDINATION KINETICS.....	5R01 GM12596-09	53,038
RORABACHER, DAVID B.....	MACROCYCLIC LIGAND KINETICS: POLYTHIAETHER COMPLEXES.....	5R01 GM20424-03	41,899
ROSE, NOEL R.....	ANTIGENIC COMPONENTS OF HUMAN PROSTATIC ADENOCARCINOMA.....	5R26 CA16426-03	100,512
SARDESAI, VISHWANATH M.....	THE EFFECT OF ALCOHOL ON THE HEART.....	1R01 HL20369-01	19,851
SCHAAP, A PAUL.....	ENZYMATICALLY GENERATED SINGLET OXYGEN IN CARCINOGENESIS.....	5R01 CA15874-03	31,445
SEEGERS, WALTER H.....	FORMATION AND PROPERTIES OF PROTHROMBIN DERIVATIVES.....	5R01 HL03424-19	94,432
SEEGERS, WALTER H.....	COAGULATION AND CELLS IN THROMBOSIS AND HEMOSTASIS.....	3P50 HL14142-05S1	109,555
SEEGERS, WALTER H.....	PROPERTIES OF THROMBIN AND AC-GLOBULIN.....	1R01 HL18435-01	22,865
STEVENS, CALVIN L.....	AMINO AND KETO SUGAR NUCLEOSIDES FOR CANCER SCREENING.....	5R01 CA17217-02	38,251
STEVENS, CALVIN L.....	6-DEOXY-4-KETO AND 4-AMINO-4, 6-DIDEOXY SUGARS.....	5R01 GM11520-12	51,707
SWANBORG, ROBERT H.....	ENCEPHALITIC NATURE OF ALTERED BRAIN PREPARATION.....	5R01 NS06985-09	19,290
SWANBORG, ROBERT H.....	ENCEPHALITIC NATURE OF ALTERED BRAIN PREPARATION.....	2R01 NS06985-10	68,093
TCHEN, TCHE-TSING.....	STUDIES ON SOME METABOLIC PATHWAYS.....	5R01 AM05384-15	53,847
TCHEN, TCHE-TSING.....	CONVERSION OF CHOLESTEROL TO PREGNENOLONE.....	5R01 AM13724-07	64,952
TSERNOGLOU, DEMETRIUS.....	X-RAY DIFFRACTION ANALYSIS OF THROMBIN AND NEUROTOXIN.....	5R01 HL15958-04	8,305
VAITKEVICIUS, VAINUTIS K.....	SOUTHWEST ONCOLOGY GROUP.....	5R10 CA14028-03	167,718
VAITKEVICIUS, VAINUTIS K.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17952-02	143,765
VINOGRADOV, SERGE N.....	QUATERNARY STRUCTURE OF ERYTHRO AND CHLOROCHROMIUMS.....	1R01 HL18634-01	19,798
WEINER, LAWRENCE M.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05384-15	150,261
WHITTEN, CHARLES F.....	SUPPORT FOR SICKLE CELL CENTER.....	5P60 HL16008-04	606,691
ZWAS, FRED.....	PSYCHOPHYSICAL STUDIES OF RETINITIS PIGMENTOSA.....	1R01 EY01707-01	18,275
ORGANIZATION TOTAL	83	4,628,287	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
<b>EAST LANSING</b>			
<b>MICHIGAN STATE UNIVERSITY</b>	<b>ZIP CODE 48823</b>		
AGGARWAL, SURINDER K.	PLATINUM COMPOUNDS AND THEIR ANTITUMOR ACTIVITY	5R01 CA12514-04	38,263
AKERA, TAI	CARDIAC GLYCOSIDES: MECHANISM OF INOTROPIC ACTION	5R01 HL16052-03	96,148
AKERA, TAI	CARDIOVASCULAR DRUGS AND THE NA- AND K-ION-ATPASE	5R01 HL16055-03	20,525
ASHER, JAMES H., JR.	GENETIC AND MOLECULAR ANALYSIS OF MESODERMAL INDUCTION	5R01 HD08134-02	42,214
AUST, STEVEN D.	INVESTIGATION OF MEMBRANE STRUCTURE AND FUNCTION	5R01 GM19699-03	20,452
AUST, STEVEN D.	RAT LIVER MICROSOMAL CYTOCHROME P 450	5R01 GM21321-03	18,457
BAILIE, MICHAEL D.	ANATOMICAL AND FUNCTIONAL DEVELOPMENT OF THE KIDNEY	5R01 HD06290-03	59,870
BAILIE, MICHAEL D.	METABOLISM AND INTRARENAL ACTION OF ANGIOTENSIN II	5R01 HL14075-05	47,763
BAND, RUDOLPH N.	PHYSIOLOGY OF ACANTHAMOEBA AND ENTAMOEBA	5R01 AI06117-13	47,502
BARKER, ROBERT	MEMBRANE OLIGOSACCHARIDES	2R01 GM21731-02	59,473
BERNARD, RUDY A.	ELECTROPHYSIOLOGICAL STUDIES OF THE GUSTATORY SYSTEM	5R01 NS09168-07	81,265
BIEBER, LORAN L.	BIOCHEMISTRY OF POLYENE ANTIBIOTICS	5R01 AI12187-02	45,484
BIEBER, LORAN L.	SHORT-CHAIN ACYLCARNITINES—FUNCTION AND ENZYMOLOGY	5R01 AM18427-02	55,921
BOEY, JOHN A.	MAREK'S DISEASE HERPES VIRUS INDUCED DNA POLYMERASE	5R01 HL15054-02	39,444
BRANDAS, STANLEY	THE CULTURAL DETERMINANTS OF NUPTIALITY	5R01 HD08509-02	10,096
BRODY, THEODORE M.	CARDIAC PHARMACOLOGY OF PHENOTHIAZINE METABOLITES	5R01 HL16778-03	35,820
BULL, ROBERT W.	IMMUNOHISTOLOGICAL REFERENCE CENTER	5P40 RR00931-02	65,741
CARROW, REXFORD E.	MUSCULAR DYSTROPHY: ALTERATIONS MEDIATED BY EXERCISE	2R01 NS10716-02	97,232
CLEMENS, LYNNWOOD G.	NEURAL CONTROL OF SEXUAL BEHAVIOR IN THE RAT	5R01 HD06760-05	88,609
CONVEY, EDWARD M.	CONTROL OF BOVINE SERUM PROLACTIN CONCENTRATION	5R01 AM15899-05	43,413
CONVEY, EDWARD M.	CONTROL OF BOVINE LUTEINIZING HORMONE SECRETION	1R01 HD10123-01	56,622
COSTILOW, RALPH N.	METABOLISM OF AMINO ACIDS BY CLOSTRIDIA	5R01 AI10951-05	32,860
DUKELOW, W. RICHARD	CYTOGENETIC STUDIES OF PRIMATE DEVELOPMENT	5R01 HD07534-03	39,020
ESSELMAN, WALTER J.	EXPRESSION OF T LYMPHOCYTE DIFFERENTIATION ANTIGENS	5R01 AI12549-02	31,715
FROMM, PAUL O.	COMPARATIVE PHYSIOLOGICAL STUDIES OF VERTEBRATE EYES	3R01 EY00009-12S1	2,937
FROMM, PAUL O.	COMPARATIVE PHYSIOLOGICAL STUDIES OF VERTEBRATE EYES	2R01 EY00009-13	33,476
GEBBER, GERARD L.	CENTRAL NEURAL CONTROL OF CARDIOVASCULAR FUNCTION	2R01 HL13187-07	53,186
GERHARDT, PHILIPP	HEMODIALYSIS CULTURE OF INFECTIOUS ORGANISMS	5R01 AI09760-05	47,573
GERHARDT, PHILIPP	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05772-02	21,519
GIBSON, JAMES E.	PERINATAL PESTICIDE TOXICITY	3R01 ES00560-04S1	1,304
GIBSON, JAMES E.	PERINATAL PESTICIDE TOXICITY	2R01 ES00560-05	62,898
GIBSON, JAMES E.	PESTICIDE BEHAVIORAL TERATOLOGY	5R01 ES00910-03	40,342
GOODMAN, JAY I.	REPAIR SYNTHESIS OF DNA IN PRECANCEROUS RAT LIVER	5R01 CA13344-05	41,137
GOODMAN, JAY I.	NORMAL & PRECANCEROUS REGENERATING LIVER IN VITRO	5R01 CA17001-02	43,627
GREGA, GEORGE J.	PATHOPHYSIOLOGY OF CIRCULATORY SHOCK	5R01 HL12421-08	48,905
HADDY, FRANCIS J.	EFFECT OF CATIONS, ANIONS, AND WATER UPON BLOOD VESSELS	2R01 HL10778-10A1	83,232
HAFS, HAROLD D.	ENDOCRINE CORRELATES WITH PROSTAGLANDIN F2ALPHA	5R01 HD06948-04	47,882
HART, HAROLD	STUDIES IN ORGANIC SYNTHESSES	5R01 GM15997-07	71,932
HATTON, GLENN I.	INTERNAL SENSING SYSTEMS AND DRINKING BEHAVIOR	5R01 NS09140-06	36,094
HELMRATH, THOMAS A.	NEONATAL GLUCONEOGENESIS: INITIATION AND CONTROL	5R01 HD05821-05	54,411
HOOK, JERRY B.	FACTORS AFFECTING RENAL PHYSIOLOGY IN THE NEWBORN	5R01 AM10913-10	36,673
HUNT, ANDREW D., JR.	EXPLORATORY STUDIES IN CANCER RESEARCH	1P20 CA19364-01	74,196
HUNT, ANDREW D., JR.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05656-09	127,760
JOHNSON, JOHN I., JR.	DEVELOPMENT OF AFFERENT NEURAL CENTERS	5R01 NS05982-11	32,369
KALLEN, DAVID J.	FACTORS INFLUENCING CONTRACEPTIVE USE	1R01 HD10689-01	177,385
KIM, JAMES C.	VITAMIN A EFFECT ON LUNG CELL CYCLE KINETICS AFTER NO2	1R01 ES01166-01A1	18,154
KIM, JAMES C.	VITAMIN A EFFECT ON LUNG CELL CYCLE KINETICS AFTER NO2	5R01 ES01166-02	19,710
KINDEL, PAUL K.	BIOSYNTHESIS OF D-APIOSE AND PLANT POLYSACCHARIDES	5R01 GM19973-07	35,198
KOHRMAN, ARTHUR F.	ESTROGENS, ALTERED DIFFERENTIATION, AND MALIGNANCY	5R01 CA15137-03	35,760
KOHRMAN, ARTHUR F.	AN ALTERNATE PATHWAY FOR UREA SYNTHESIS	5R01 HD08456-03	40,487
KORR, IRVIN M.	WORKSHOPS ON BIOLOGICAL BASES OF MANIPULATIVE THERAPY	1R13 NS13320-01	35,100
LEW, GLORIA M.	ORAL CONTRACEPTIVES AND HYPERTENSION	1R01 HL17724-01A1	19,320
MAHER, VERONICA M.	ROLE OF MUTAGENESIS IN CHEMICAL CARCINOGENESIS	7R01 CA21247-01	51,227
MAHER, VERONICA M.	INTERACTION OF CARCINOGENS WITH DNA-REPAIR OF LESIONS	7R01 CA21253-01	87,449
MC CONNELL, DAVID G.	STUDIES OF RETINAL ROD CYCLIC GMP PHOSPHODIESTERASE	1R01 EY01574-01	39,252
MEITES, JOSEPH	HYPOTHALAMO-PITUITARY-OVARIAN RELATIONSHIPS IN AGING RAT	5R01 AG00416-02	63,858

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
MEITES, JOSEPH.....	CONTROL OF SECRETION OF HYPOTHALAMIC HORMONES.....	5R01 AM04784-16	79,098
MEITES, JOSEPH.....	NEUROENDOCRINE CONTROL OF MAMMARY AND PITUITARY TUMORS.....	5R01 CA10771-09	87,326
MICHELAKIS, ANDREW M.....	THE ENDOCRINE KIDNEY IN HYPERTENSION.....	2R01 HL18019-02	88,923
MICHELAKIS, ANDREW M.....	THE ENDOCRINE KIDNEY IN HYPERTENSION.....	5R01 HL18019-03	77,294
MICHELAKIS, ANDREW M.....	NEW VASOACTIVE FACTORS AND THEIR ROLE IN HYPERTENSION.....	5R01 HL18027-02	81,002
MILLER, HAROLD C.....	DEVELOPMENT OF IMMUNOGENESIS FROM BONE-MARROW CELLS.....	5R01 CA13396-05	62,770
MOORE, KENNETH E.....	THE ROLE OF CATECHOLAMINES IN DRUG TOXICITY.....	2R01 NS09174-10	61,695
MOORE, KENNETH E.....	THE ROLE OF CATECHOLAMINES IN DRUG TOXICITY.....	5R01 NS09174-11	63,254
MORRIS, ALLAN J.....	BIOSYNTHESIS OF HUMAN AND RABBIT HEMOGLOBINS.....	5R01 AM08575-12	50,942
NADLER, KENNETH D.....	HEMOGLOBIN SYNTHESIS IN GLYCINE MAX NODULES.....	5R01 AM18295-02	20,973
NELLOR, JOHN E.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07049-11	103,187
OVERBECK, HENRY W.....	HEMODYNAMICS AND VASOACTIVITY IN RENAL HYPERTENSION.....	2R01 HL15146-04	65,238
OVERBECK, HENRY W.....	IONS, WATER, AND HYPERTENSION.....	5R01 HL16665-02	34,288
PATRICK, RICHARD A.....	STUDIES ON COMPLEMENT CLEAVAGE REACTIONS.....	5R01 AI11367-03	38,991
POTCHEN, E JAMES.....	A COMMUNITY BASED STUDY OF COLORECTAL CANCER CONTROL.....	1R18 CA18871-01	179,650
REUSCH, WILLIAM H.....	APPROACHES TO STRUCTURALLY MODIFIED STEROIDS.....	5R01 AM10849-09	42,338
RICKERT, DOUGLAS E.....	XENOBIOTIC CONJUGATION BY THE INTESTINE.....	1R01 GM22535-01	22,815
RIEGLE, GAIL D.....	THE EFFECT OF AGING ON HYPOTHALAMIC CONTROL SYSTEMS.....	5R01 AG00441-03	35,297
RIVERA, EVELYN M.....	CARCINOGEN-INDUCED RAT MAMMARY HYPERPLASIAS.....	5R01 CA17862-02	46,852
ROBINSON, NORMAN E.....	DEVELOPMENT OF COLLATERAL VENTILATION.....	5R01 HL17768-02	18,332
ROMSOS, DALE R.....	EFFECT OF MEAL PATTERN AND DIET ON ENERGY METABOLISM.....	2R01 AM15847-06	58,407
ROMSOS, DALE R.....	EFFECT OF DIET ON CARBOHYDRATE AND LIPID METABOLISM.....	1R01 AM18957-01	48,095
RONZIO, ROBERT A.....	THE ROLE OF GLYCOPROTEINS IN PANCREATIC SECRETION.....	5R01 AM17742-03	42,071
RONZIO, ROBERT A.....	MEMBRANE FORMATION IN CYTODIFFERENTIATION.....	5R01 GM17773-05	34,157
ROSENBERG, BARNETT.....	METAL COORDINATION COMPLEXES IN CANCER CHEMOTHERAPY.....	5R01 CA11349-08	89,240
ROTTMAN, FRITZ M.....	CONTROL OF RNA PROCESSING IN NORMAL AND TUMOR CELLS.....	5R01 CA13175-05	65,295
SADOFF, HAROLD L.....	CELL DIFFERENTIATION IN PROCARYOTIC ORGANISMS.....	2R01 AI01863-19	69,427
SCOTT, JERRY B.....	ROLE OF CHEMICALS IN LOCAL BLOOD FLOW REGULATION.....	5R01 HL10879-10	36,153
SCOTT, JERRY B.....	POTASSIUM AND SODIUM EFFECTS ON THE WORKING HEART.....	5R01 HL16158-03	37,445
SLATTER, DOUGLAS H.....	EXPERIMENTAL OCULAR ATHEROSCLEROSIS.....	7R23 EY01816-01	3,000
SMITH, WILLIAM L.....	REGULATION OF UTERINE PROSTAGLANDIN BIOSYNTHESIS.....	1R01 HD10013-01	30,470
SNYDER, LOREN R.....	VIRAL INDUCED CHANGES IN REPLICATION AND TRANSCRIPTION.....	5R01 AI12133-03	34,797
STICKNEY, JANICE L.....	DIGITALIS: MECHANISMS OF CARDIAC SYMPATHETIC EFFECTS.....	5R01 HL15802-02	31,827
SUETTER, CLARENCE H.....	COMPARATIVE ENZYMOLOGY OF NORMAL AND ABNORMAL TISSUE.....	5R01 GM20716-03	23,365
SWEeley, CHARLES C.....	CHEMISTRY AND METABOLISM OF SPHINGOLIPIDS.....	5R01 AM12434-09	100,860
SWEeley, CHARLES C.....	ROLE OF GLYCOSPHINGOLIPIDS IN PLATELET AGGREGATION.....	3R01 HL17462-01S1	4,865
SWEeley, CHARLES C.....	SUPPORT FOR MASS SPECTROMETRY FACILITY.....	5P41 RR00480-08	128,541
TIEN, H TI.....	BILAYER LIPID MEMBRANES IN AQUEOUS MEDIA.....	2R01 GM14971-10	87,209
TIEN, H TI.....	BILAYER LIPID MEMBRANES IN AQUEOUS MEDIA.....	5R01 GM14971-11	90,758
TOLBERT, N EDWARD.....	PEROXISOMES IN DEVELOPING LIVER AND KIDNEY.....	5R01 HD06441-05	80,555
TROSKO, JAMES E.....	DNA REPAIR AND MUTAGENESIS IN MAMMALIAN CELLS.....	5R01 CA13048-05	77,071
TUCKER, H ALLEN.....	CORTISOL RECEPTORS IN CULTURED MAMMARY TISSUE.....	5R01 HD05750-05	37,392
TUCKER, H ALLEN.....	PHOTOPERIODIC CONTROL OF BOVINE SERUM PROLACTIN.....	1R01 HD09883-01	41,450
TULINSKY, ALEXANDER.....	X-RAY CRYSTALLOGRAPHIC STUDIES OF ALPHA-CHYMOTRYPSIN.....	5R01 GM21225-02	35,151
VELICER, LELAND F.....	MOLECULAR BIOLOGY OF RNA CANCER VIRUSES.....	5R01 CA12101-06	68,011
WALKER, BRUCE E.....	DEVELOPMENT OF THE PALATE AND LIP.....	5R01 DE02852-09	60,592
WELLS, WILLIAM W.....	ENERGY RELATIONSHIPS IN INBORN ERRORS OF METABOLISM.....	2R01 AM10209-10	78,608
WELLS, WILLIAM W.....	ENERGY RELATIONSHIPS IN INBORN ERRORS OF METABOLISM.....	5R01 AM10209-11	79,119
WELLS, WILLIAM W.....	METABOLISM OF MYO-INOSITOL DURING DEVELOPMENT.....	5R01 HD06007-05	45,717
WELSCH, CLIFFORD W.....	POTENTIAL OF ERGOT ALKALOIDS IN CONTROL OF BREAST CANCER.....	5R01 CA13777-04	18,789
WELSER, JOHN R.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05623-10	59,756
WILLIAMS, JEFFREY F.....	STUDY OF IMMUNOLOGY DURING LARVAL TAPEWORM INFECTION.....	5R01 AI10842-05	89,446
WILSON, JOHN E.....	MITOCHONDRIAL HEXOKINASE AND BRAIN METABOLISM.....	5R01 NS09910-05	67,374
WILSON, JOHN E.....	MITOCHONDRIAL HEXOKINASE AND BRAIN METABOLISM.....	5R01 NS09910-06	72,831
WOLK, COLEMAN P.....	ISOLATION OF PATTERN MUTANTS IN BLUE-GREEN ALGAE.....	5R01 CA18133-02	13,805
ORGANIZATION TOTAL	111	5,960,176	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MICHIGAN—Continued</b>			
<b>ELOISE</b>			
WAYNE COUNTY GENERAL HOSPITAL	ZIP CODE 48132		
ANDRES, SCOTT F.....	ACTIVE SITE CHARACTERIZATION OF PARATHYROID HORMONE.....	1R01 AM18680-01	12,184
MC CANN, DAISY S.....	SCREENING OF HYPERTENSIVES BY RIA OF METANEPHRINES.....	1R01 NS12584-01A1	30,317
ORGANIZATION TOTAL	2	42,501	
<b>HOLLAND</b>			
HOPE COLLEGE	ZIP CODE 49423		
BOYER, RODNEY F.....	2-HYDROXY FATTY ACIDS: METABOLISM IN BRAIN TISSUE.....	1R01 NS13081-01	10,196
ORGANIZATION TOTAL	1	10,196	
<b>KALAMAZOO</b>			
WESTERN MICHIGAN UNIVERSITY	ZIP CODE 49001		
EISENBERG, ROBERT C.....	MOLECULAR ORGANIZATION OF BACTERIAL MEMBRANES.....	5R01 AI09844-06	32,394
ORGANIZATION TOTAL	1	32,394	
<b>ROCHESTER</b>			
OAKLAND UNIVERSITY	ZIP CODE 48063		
CALLEWAERT, DENIS M.....	MOLECULAR MECHANISMS IN CELLULAR IMMUNOLOGY.....	5R01 AI12766-02	34,769
CALLEWAERT, DENIS M.....	EVOLUTION OF CERTAIN DEHYDROGENASES IN PSEUDOMONAS.....	1R01 GM22233-01	21,125
DOHERTY, PAUL M.....	DIFFUSION OF PROTEINS IN INTACT CATARACTOUS LENSES.....	1R01 EY01698-01	41,804
GOUDSMIT, ESTHER M.....	MOLLUSCAN REPRODUCTIVE CYCLE: NEUROHORMONAL CONTROL.....	1R01 GM23240-01	41,890
HOVANESIAN, JOSEPH D.....	USE OF MOIRE TECHNIQUE TO MEASURE CORNEAL TOPOGRAPHY.....	3R01 EY00993-02S1	17,249
KINSEY, V EVERETT.....	INTRAOCULAR FLUID DYNAMICS.....	5R01 EY00483-08	83,918
OBEAR, FREDERICK W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07131-07	28,126
REDDAN, JOHN R.....	CONTROL OF CELL DIVISION IN THE OCULAR LENS.....	5R01 EY00362-09	66,407
REDDAN, JOHN R.....	CONTROL OF CELL DIVISION IN THE OCULAR LENS.....	2R01 EY00362-10	74,598
REDDY, VENKAT N.....	STUDY OF INTRAOCULAR TRANSPORT.....	5R01 EY00484-09	103,504
RILEY, MICHAEL V.....	CONTROL OF CORNEAL HYDRATION AND TRANSPARENCY.....	5R01 EY00541-07	57,681
ROY, ARUN K.....	HORMONAL CONTROL OF ALPHA-2U GLOBULIN SYNTHESIS IN LIVER.....	5R01 AM14744-05	45,510
ROY, ARUN K.....	HORMONAL CONTROL OF ALPHA-2U GLOBULIN SYNTHESIS IN LIVER.....	5R01 AM14744-06	46,257
UNAKAR, NALIN J.....	MORPHOLOGICAL STUDIES IN EXPERIMENTAL CATARACTS.....	1R01 EY01680-01	42,869
WINKLER, BARRY S.....	PHOTORECEPTOR ELECTROGENESIS: DYNAMICS AND CONTROLS.....	5R01 EY01219-02	51,473
ORGANIZATION TOTAL	15	757,180	
STATE TOTAL	484	35,422,890	
<b>MINNESOTA</b>			
<b>AUSTIN</b>			
UNIVERSITY OF MINNESOTA	ZIP CODE 55912		
BAUMANN, WOLFGANG J.....	UNUSUAL LIPIDS IN CANCER TISSUES.....	5R01 CA12150-05	37,395
BROCKMAN, HOWARD L, JR.....	REGULATION OF CHOLESTERYL ESTER LEVELS IN THE AORTA.....	5R01 HL17371-02	23,173
BROCKMAN, HOWARD L, JR.....	REGULATION OF CHOLESTERYL ESTER LEVELS IN THE AORTA.....	5R01 HL17371-03	25,569
CHIPAULT, JACQUES R.....	DIET, FECAL STEROIDS AND COLON CANCER.....	1R01 CA19519-01	47,602
CHIPAULT, JACQUES R.....	LIPIDS OF THE TRIPARANOL CATARACT.....	5R01 EY01424-02	50,993
HOLMAN, RALPH T.....	REQUIREMENTS OF POLYUNSATURATED FATTY ACIDS.....	2R01 AM04524-16	67,484
HOLMAN, RALPH T.....	CHEMICAL AND BIOLOGICAL PROPERTIES OF LIPIDS.....	2P01 HL08214-13	602,968
PRIVETT, ORVILLE S.....	RELATIONSHIPS OF DIET AND AIR POLLUTANTS TO AGING.....	3R01 AG00174-01S1	1,300
PRIVETT, ORVILLE S.....	RELATIONSHIPS OF DIET AND AIR POLLUTANTS TO AGING.....	5R01 AG00174-02	65,154
PRIVETT, ORVILLE S.....	EFFECT OF DIETARY FAT ON GLYCERIDE STRUCTURE.....	5R01 AM04942-16	65,442
SCHLENK, HERMANN.....	LIPIDS IN MICROORGANISMS AND PLANTS.....	5R01 AM05165-15	62,972



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MINNESOTA—Continued</b>			
SCHLENK, HERMANN.....	INTERCONVERSION OF LIPIDS IN ANIMALS.....	5R01 AM13424-16	66,642
SCHLENK, HERMANN.....	CHEMISTRY AND BIOCHEMISTRY OF A NEW TYPE OF FATTY ACIDS.....	1R01 GM22880-01	45,341
SCHMID, HARALD H.....	LIPID METABOLISM IN NORMAL AND NEOPLASTIC TISSUES.....	3R01 CA13113-04S1	7,350
SCHMID, HARALD H.....	PHOSPHOLIPID BIOSYNTHESIS IN THE DEVELOPING BRAIN.....	5R01 NS10013-04	30,234
ORGANIZATION TOTAL	15 1,199,619		
<b>DULUTH</b>			
<b>UNIVERSITY OF MINNESOTA ZIP CODE 55812</b>			
CARLSON, ROBERT M.....	THE SYNTHESIS OF DIHYDROPRYONE ANTIBIOTICS.....	5R01 AI10597-05	29,006
ORGANIZATION TOTAL	1 29,006		
<b>MINNEAPOLIS</b>			
<b>CEREBROVASCULAR WORKSHOP PLANNING COMMITTEE ZIP CODE 55455</b>			
BAKER, ABE B.....	CEREBROVASCULAR WORKSHOP.....	5R13 NS08328-07	28,134
ORGANIZATION TOTAL	1 28,134		
<b>HENNEPIN COUNTY MEDICAL CENTER ZIP CODE 55415</b>			
HAGLIN, JOHN J.....	LUNG ALLOTRANSPLANTATION.....	5R01 HL15246-03	97,223
HODGES, MORRISON.....	MYOCARDIAL BLOOD FLOW IN ACUTE MYOCARDIAL INFARCTION.....	1R01 HL18190-01A1	75,303
ORGANIZATION TOTAL	2 172,526		
<b>MOUNT SINAI HOSPITAL ZIP CODE 55404</b>			
SCHMITT, OTTO H.....	SPATIAL ELECTROCARDIOGRAPHIC VECTOR ANALYSIS.....	5R01 HL11325-09	36,102
ORGANIZATION TOTAL	1 36,102		
<b>UNIVERSITY OF MINNESOTA ZIP CODE 55455</b>			
ACKERMAN, EUGENE.....	A COMPUTER LINKAGE FOR A DUAL CAMERA SYSTEM.....	5R01 HL16791-02	53,342
ACKERMAN, EUGENE.....	A COMPUTER LINKAGE FOR A DUAL CAMERA SYSTEM.....	5R01 HL16791-03	56,570
AHMED, KHALIL.....	STUDIES OF NORMAL AND CANCEROUS PROSTATE.....	5R01 CA15062-03	34,745
AMPLATZ, KURT.....	RADIOGRAPHIC VENTRICULOMETRY FOR CORONARY HEART DISEASE.....	5R01 HL16484-02	36,688
ANDERS, MARION W.....	ENVIRONMENTAL CHEMICALS AS CO-TOXICANTS.....	5R01 ES00953-02	45,183
ANDERS, MARION W.....	METABOLISM OF DIHALOMETHANES.....	5R01 ES01082-02	34,487
ANDERSON, DWIGHT L.....	MORPHOGENESIS OF BACTERIOPHAGE PHI-29.....	2R01 DE03606-07	74,338
ANDERSON, DWIGHT L.....	MORPHOGENESIS OF BACTERIOPHAGE PHI-29.....	5R01 DE03606-08	80,452
ANDERSON, DWIGHT L.....	GENETIC ASPECTS OF DNA-PROTEIN INTERACTIONS.....	5R01 GM19743-03	54,910
ANDERSON, PAUL M.....	CYANATE: REACTION WITH CYANASE AND AMIDOTRANSFERASES.....	1R01 GM22434-01	39,723
AUSMAN, JAMES I.....	IC TUMOR: BIOLOGIC PRINCIPLES INFLUENCING THERAPY.....	5R01 CA15887-02	37,961
BACHE, ROBERT J.....	THE CORONARY VASCULAR RESPONSE TO ISCHEMIA.....	7R01 HL20598-01	30,013
BALFOUR, HENRY H, JR.....	THE ROLE OF VIRUSES IN RENAL TRANSPLANT PATIENTS.....	1R01 AM18883-01A1	67,916
BARNETT, RONALD E.....	MECHANISM OF ALKALI CATION TRANSPORT.....	5R01 GM18152-06	24,198
BENSON, ELLIS S.....	HEMOGLOBIN AND RED CELL SYSTEM IN HEMOGLOBINOPATHIES.....	5P01 HL16833-02	410,575
BERRY, DONALD A.....	EFFICIENT DESIGNS IN SEQUENTIAL CLINICAL TRIALS.....	5R01 GM22234-02	9,635
BISHOP, JONATHAN S.....	INSULIN RESISTANCE AND PHOSPHO-PROTEIN PHOSPHATASES.....	2R01 AM13319-08	31,989
BLACKBURN, HENRY.....	STUDY OF PREVENTION OF SUDDEN CORONARY DEATH.....	5R01 HL16573-02	37,083
BLOEDEL, JAMES R.....	ORGANIZATION & FUNCTION OF CNS IN MOTOR CONTROL.....	5R01 NS09447-06	32,375
BLOEDEL, JAMES R.....	THE NEOCEREBELLUM-ASPECTS OF ORGANIZATION AND FUNCTION.....	2R01 NS09447-07	75,291
BLOEDEL, JAMES R.....	A PSYCHOPHYSICAL AND NEUROPHYSICAL STUDY OF PAIN.....	1R01 NS13002-01	57,396
BLUMENTHAL, MALCOLM N.....	GENETIC MAPPING OF THE IR GENE TO RAGWEED ANTIGEN E.....	1R01 AI13132-01A1	63,951
BODLEY, JAMES W.....	THE MECHANISM OF TRANSLOCATION.....	5R01 GM17101-05	22,276
BODLEY, JAMES W.....	GUANINE NUCLEOTIDES AND PROTEIN CHAIN GROWTH.....	5R01 GM21359-02	39,086
BODLEY, JAMES W.....	PHOTOCHEMICAL CROSSLINKING OF THE RIBOSOME.....	1R01 GM23276-01	37,350
BRAND, GERHARD K.....	FOREIGN BODY TUMORIGENESIS.....	5R01 CA10712-09	68,802
BROWN, DAVID M.....	ISLET TRANSPLANTATION AND DIABETIC VASCULAR DISEASE.....	5R01 AM17697-03	60,202
BRUDVIG, GLENN L.....	MEDICAL LIBRARY MINICOMPUTER SYSTEM.....	5R01 LM02460-02	106,673
BRYANT, ROBERT G.....	SOLVENT AND SMALL SOLUTES IN TISSUES AND PROTEINS.....	5R01 GM18719-05	34,048
BRYANT, ROBERT G.....	CHEMISTRY OF METAL ION-PROTEIN INTERACTIONS.....	5R01 GM21335-03	34,998
BUCHWALD, HENRY.....	DEVICE FOR CONTINUOUS INFUSION DRUG SCREENING.....	1R01 GM22605-01	77,888



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MINNESOTA—Continued</b>			
BUCHWALD, HENRY.....	ILEAL BYPASS EFFECT ON CHOLESTEROL & ATHEROSCLEROSIS.....	5R01 HL11901-09	84,816
BUCHWALD, HENRY.....	ILEAL BYPASS EFFECT ON CHOLESTEROL & ATHEROSCLEROSIS.....	5R01 HL11901-10	86,386
BUCHWALD, HENRY.....	PROGRAM ON SURGICAL CONTROL OF THE HYPERLIPIDEMIAS.....	5P01 HL15265-03	1,545,361
BURKHARDT, DWIGHT A.....	VISION AND INTRARETINAL POTENTIALS.....	5R01 EY04660-08	24,067
CAPPS, MARY J.....	SINUSOIDAL ACCELERATION. A TEST OF VESTIBULAR FUNCTION.....	5R01 NS10560-03	16,229
CLUCK, ROBERT E.....	CELLULAR AND MOLECULAR ASPECTS OF IMMUNE RESPONSES.....	5R01 AI12898-02	43,393
COHN, JAY N.....	SPLANCHNIC HEMODYNAMICS IN MAN.....	5R01 HL18020-02	38,120
COHN, JAY N.....	HEMODYNAMIC FACTORS IN CLINICAL SHOCK AND HYPOTENSION.....	5R01 HL18043-02	69,013
CRADDOCK, PHILIP R.....	LEUKEMIA CHEMOTHERAPY AND NEUTROPHIL DYSFUNCTION.....	5R01 CA15627-03	23,049
DALMASSO, AGUSTIN P.....	ROLE OF COMPLEMENT IN INTRAVASCULAR COAGULATION.....	2R01 HL15215-04	36,897
DELANEY, JOHN P.....	A PROSTHETIC SPHINCTER FOR INTESTINAL STOMAS.....	5R26 CA18015-02	41,095
DEMPSEY, MARY E.....	STEROL METABOLISM IN HUMAN RENAL CANCER.....	5R01 CA18256-02	15,489
DEMPSEY, MARY E.....	ENZYMIC CHOLESTEROL SYNTHESIS.....	5R01 HL08634-13	72,989
DESNICK, ROBERT J.....	THERAPY OF METABOLIC DISEASES.....	5R01 AM17154-02	35,016
DOUGHMAN, DONALD J.....	ORGAN CULTURE OF CORNEAS.....	5R01 EY01211-03	56,487
DOUGLAS, STEVEN D.....	MORPHODYNAMICS OF HUMAN LYMPHOCYTES AND MONOCYTES.....	5R01 AI12478-03	61,037
DUNHAM, EARL W.....	VASCULAR ROLE OF PROSTAGLANDIN AND CYCLIC NUCLEOTIDES.....	3R01 HL15447-03S1	7,242
DUNHAM, EARL W.....	VASCULAR ROLE OF PROSTAGLANDIN AND CYCLIC NUCLEOTIDES.....	2R01 HL15447-04	17,569
DUVALL, ARNDT J, III.....	FLUID BARRIERS WITHIN THE COCHLEA.....	5R01 NS04615-13	52,043
DUVALL, ARNDT J, III.....	FLUID BARRIERS WITHIN THE COCHLEA.....	5R01 NS04615-14	55,317
DWORKIN, MARTIN.....	CELL INTERACTIONS DURING MYXOBACTERIAL DEVELOPMENT.....	2R01 GM19957-04	56,484
EDSTROM, RONALD D.....	NORMAL AND LEUKEMIC LYMPHOCYTE SURFACE GLYCOPROTEINS.....	5R01 CA14351-03	31,246
EINZIG, STANLEY.....	REGIONAL BLOOD FLOW IN VIRAL MYOCARDITIS.....	5R01 HL18204-02	12,248
EISENBERG, M MICHAEL.....	GASTROINTESTINAL/BILIARY VAGAL-GASTRIN MECHANISMS.....	5R01 AM18379-02	58,228
ERLANDSEN, STANLEY L.....	LYSOZYME SECRETION AND PANETH CELL FUNCTION.....	5R01 AM18344-02	38,007
FARAS, ANTHONY J.....	RNA-DIRECTED DNA POLYMERASE AND 70S RNA OF ONCORNAVIRUS.....	2R01 CA18303-02	59,662
FARAS, ANTHONY J.....	MECHANISM OF ONCORNAVIRUS PROVIRAL DNA SYNTHESIS.....	1R01 CA20011-01	34,045
FENSTAD, ALFRED M.....	FEMALE SEX HORMONE MECHANISM IN PREGNANCY GINGIVITIS.....	5R23 DE03947-03	9,683
FOMLKS, W L.....	STUDIES OF THE BLOOD VITREOUS BODY BARRIER.....	5R01 EY01258-02	75,605
FOX, IRWIN J.....	REGIONAL MYOCARDIAL FLOW AND FUNCTION RELATIONSHIPS.....	5R01 HL18024-02	34,248
FRALEY, ELWIN E.....	VIROLOGY, IMMUNOBIOLOGY, & BIOCHEMISTRY OF RENAL CANCER.....	5P01 CA13095-05	184,885
FRALEY, ELWIN E.....	VIROLOGY AND IMMUNOLOGY OF CANCER OF HUMAN UROTHELIUM.....	5R26 CA15551-03	111,057
FRANTZ, IVAN D, JR.....	INTERMEDIARY METABOLISM OF CHOLESTEROL.....	5R01 HL01875-22	58,481
FRÖHRIB, DARRELL A.....	SYSTEM DESIGN STUDY OF FLUID ENERGY TRANSFER DEVICES.....	2R01 GM21178-03	66,206
GAUL-PECZALSKA, KAZIMIERA.....	IMMUNOLOGY OF HUMAN LYMPHOID TUMORS OF B-CELL ORIGIN.....	5R01 CA17034-02	43,211
GASSMAN, PAUL G.....	VINCISTINE & VINBLASTINE DERIVATIVES & MODELS.....	5R01 CA16967-03	35,957
GASSMAN, PAUL G.....	HIGHLY STRAINED NITROGEN HETEROCYCLES.....	5R01 CA17269-02	84,029
GASSMAN, PAUL G.....	A STEREOSPECIFIC FUNCTIONALIZATION OF AROMATIC AMINES.....	5R01 GM22346-02	21,576
GAULT, N L, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05385-15	261,305
GERMAINE, GREG R.....	ROLE OF ORAL BACTERIAL PROTEASES IN ORAL INFLAMMATION.....	5R01 DE04171-02	57,182
GOLDBERG, NELSON D.....	THE CELL MEMBRANE IN PROLIFERATION AND ONCOGENESIS.....	5P01 CA16228-02	322,962
GOLDBERG, NELSON D.....	STUDY OF KREBS' CYCLE AND CYCLIC NUCLEOTIDE CONTROL.....	5R01 NS05979-11	59,566
GOODALE, ROBERT L, JR.....	DETECT CANCER.....	1R26 CA20115-01	53,764
GORLIN, ROBERT J.....	PROGRAM GRANT - ORAL PATHOLOGY.....	5R01 DE01770-14	83,923
GRAGE, THEODOR B.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA12282-05S1	54,621
GRAY, BEULAH H.....	METABOLISM OF LEUKOCYTES DURING PHAGOCYTOSIS.....	1R01 AI13614-01	32,252
GRAY, GARY R.....	ANTITUMOR ACTIVE COMPONENTS OF BCG CELL WALLS.....	5R01 CA17034-02	65,058
GUTMANN, HELMUT R.....	MECHANISM OF ACTION OF CARCINOGENIC AROMATIC AMINES.....	3R01 CA02571-21S1	30,528
HALBERG, FRANZ.....	CARCINOSTATIC TREATMENT ACCORDING TO SPECTRUM OF RHYTHMS.....	3R01 CA14445-03S1	26,872
HALBERG, FRANZ.....	CARCINOSTATIC TREATMENT ACCORDING TO SPECTRUM OF RHYTHMS.....	2R01 CA14445-04	135,206
HANSON, RUSSELL F.....	METABOLISM OF BILE ACIDS.....	5R01 AM15077-06	61,891
HARRIS, JOHN E.....	STUDIES OF THE TRIPARANOL CATARACT.....	5R01 EY01200-03	39,322
HARTUP, WILLARD W.....	RESEARCH IN DEVELOPMENTAL PSYCHOLOGY.....	5P01 HD05027-07	273,302
HEGRE, ORION D.....	SELECTIVE DIFFERENTIATION/HUMAN ISLET/ORGAN CULTURE.....	5R01 AM17766-03	55,243
HOGENKAMP, HENRICUS P.....	STRUCTURE AND REACTIONS OF THE COBAMIDE COENZYMS.....	7R01 GM23773-01	46,900
HOLTZMAN, JORDAN L.....	CYTOCHROME-REDUCTASE ACTIVATION IN HYDROXYLATIONS.....	5R01 GM21310-02	29,717
HOLTZMAN, JORDAN L.....	FREE RADICALS IN THE TOXICITY OF NITRO AND AZO DRUGS.....	1R01 GM23032-01	48,972
HUMPHREY, EDWARD W.....	POST-TRAUMATIC PULMONARY INSUFFICIENCY.....	1R01 HL18762-01	66,999
HUNTLEY, THOMAS E.....	FETO-MATERNAL METABOLISM OF UNSATURATED FATTY ACIDS.....	5R01 HD08595-03	24,845
HUNTLEY, THOMAS E.....	PLATELET FATTY ACID METABOLISM IN DIABETES.....	1R01 HL20411-01	72,981

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MINNESOTA—Continued</b>			
HUTCHINSON, THOMAS E.....	STUDY OF FROZEN HYDRATED BIOLOGICAL MATERIALS.....	1R24 RR01006-01	2,800
IBELE, WARREN E.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07052-11	156,476
ISAACSON, ROBERT J.....	QUANTITATION OF JAW FUNCTION.....	5R01 DE03528-03	88,251
JACOB, HARRY S.....	ABNORMAL BLOOD CELL MEMBRANES IN DISEASE.....	5R01 AM15730-08	36,698
JACOB, HARRY S.....	COMPLEMENT-INDUCED PULMONARY INJURY.....	1R01 HL19725-01	69,213
JACOBSON, MAYNARD E.....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	2R01 AM04412-16	20,489
JACOBSON, MAYNARD E.....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM04412-17	13,558
JENKINS, JAMES J.....	CENTER FOR RESEARCH IN HUMAN LEARNING.....	5P01 HD01136-12	184,555
JENKINS, JAMES J.....	CENTER FOR RESEARCH IN HUMAN LEARNING.....	2P01 HD01136-13	211,813
JOHNSON, RUSSELL C.....	CHARACTERIZATION OF PATHOGENIC & SAPROPHYTIC LEPTOSPIRAE.....	5R01 AI06589-12	40,011
JOHNSON, RUSSELL C.....	COMPARATIVE STUDIES OF PARASITIC SPIROCHETES.....	5R01 AI08124-09	53,441
JOHNSON, RUSSELL C.....	IN VITRO CULTIVATION OF TREPONEMA PALLIDUM.....	1R01 AI12978-01	29,160
JORGENSEN, CHARLES R.....	ADENOSINE AS AN INDICATOR OF CARDIAC ISCHEMIA.....	5R01 HL16418-03	46,454
KAPLAN, EDWARD L.....	PROBLEMS IN PREVENTION OF RHEUMATIC HEART DISEASE.....	1R01 HL19307-01	92,680
KENNEDY, BYRL J.....	STUDY OF ADVANCED MALIGNANT DISEASES.....	5P01 CA08832-10	1,176,444
KENNEDY, BYRL J.....	ACUTE LEUKEMIA GROUP B - MINNESOTA MEDICAL ONCOLOGY.....	5R10 CA16450-02	102,267
KENNEDY, BYRL J.....	CLINICAL CANCER—PARTS I AND II.....	1R25 CA19527-01	149,092
KENNEDY, WILLIAM R.....	FINE STRUCTURE OF MUSCLE SPINDLES.....	2R01 NS10969-02	33,748
KERSEY, JOHN H.....	EPIDEMIOLOGY OF CANCER IN IMMUNODEFICIENCY FAMILIES.....	1R01 CA18083-01A1	83,341
KEYS, ANGEL.....	INTERNATIONAL HEART DISEASE EPIDEMIOLOGY.....	5R01 HL04697-17	16,000
KIRKWOOD, SAMUEL.....	USE OF ENZYMES IN STRUCTURAL CARBOHYDRATE CHEMISTRY.....	5R01 GM09293-14	35,640
KNOX, CHARLES K.....	REFLEX CONTROL OF RESPIRATION.....	5R01 HL16430-03	13,428
KNYCH, EDWARD T., JR.....	MECHANISM OF ANGIOTENSIN ACTION: ROLE OF RECEPTOR.....	1R01 HL18893-01	36,260
KOLTHOFF, IZAAK M.....	POLAROGRAPHY WITH ALBUMIN AND CANCEROUS HUMAN BLOOD SERA.....	5R01 CA16466-02	26,254
KRIVIT, WILLIAM.....	LEUKEMIA CENTER PLATELET PROGRAM—CCA.....	5R01 CA11996-13	66,134
KRIVIT, WILLIAM.....	LEUKEMIA CENTER PLATELET PROGRAM—CCA.....	5R01 CA11996-14	48,724
KRONENBERG, RICHARD S.....	RESPIRATORY CONTROL IN PATIENTS WITH HYPOVENTILATION.....	3R01 HL13714-05S1	2,694
LA BERGE, DAVID.....	STUDY OF BEGINNING AND FLUENT READING.....	3R01 HD06730-03S1	10,240
LA BERGE, DAVID.....	STUDY OF BEGINNING AND FLUENT READING.....	2R01 HD06730-04	84,820
LAZAROW, ARNOLD.....	FETAL ENDOCRINOLOGY AND DIABETES.....	2R01 HD00412-19	43,294
LEE, CHING Y.....	MODE OF ACTION OF LUTENIZING HORMONE.....	7R01 HD10075-01	24,257
LEE, JUI S.....	VILLUS PRESSURES AND LYMPH FLOW OF INTESTINE.....	5R01 AM18085-02	32,398
LEETE, EDWARD.....	METABOLISM OF NATURAL PRODUCTS OF MEDICINAL INTEREST.....	5R01 GM13246-19	66,859
LEVITT, MICHAEL D.....	PRODUCTION AND ABSORPTION OF INTESTINAL GASES.....	5R01 AM13309-08	70,768
LEVITT, SEYMOUR H.....	RADIATION ONCOLOGY RESEARCH AND CLINICAL CENTER.....	5P01 CA15548-02	502,508
LEVITT, SEYMOUR H.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	5P20 CA16545-02	62,256
LIFSON, NATHAN.....	ABSORPTION BY INTESTINAL MUCOSA IN VITRO.....	5R01 AM06700-14	35,423
LIFSON, NATHAN.....	HETEROGENEITY OF INTESTINAL MICROCIRCULATION.....	1R01 AM19209-01	43,648
LILLEHEI, RICHARD C.....	RENAL CRYOPRESERVATION.....	5R01 AM16830-03	61,974
LILLEHEI, RICHARD C.....	CARDIAC DYNAMICS IN EXPERIMENTAL CARDIOGENIC SHOCK.....	5R01 HL15496-02	34,240
LUMRY, RUFUS W.....	CONFORMATIONAL BASIS OF ENZYMIC CATALYSIS.....	5R01 AM05853-15	50,406
MALKINSON, ALVIN M.....	GENETICS OF MURINE CYCLIC AMP EFFECTOR MOLECULES.....	1R01 GM22492-01	33,281
MANNERING, GILBERT J.....	DRUG METABOLISM AND BIOCHEMICAL PHARMACOLOGY.....	5R01 GM15477-10	231,233
MARATSOS, MICHAEL P.....	PRESPTANEOUS LINGUISTIC COMPETENCE.....	1R01 HD09112-01	23,076
MARIANI, TONI N.....	INTERRELATIONSHIP BETWEEN MALIGNANCY AND IMMUNITY.....	5R01 CA12929-05	49,598
MARTINSON, IDA M.....	HOME CARE FOR CHILD WITH CANCER.....	1R18 CA19490-01	95,061
MATAS, ARTHUR J.....	TRANSPLANTATION OF LIVER CELLS.....	1R01 AM19113-01	40,777
MC KHANN, CHARLES F.....	BIOLOGICAL AND CLINICAL STUDIES OF COLON CARCINOMA.....	5R26 CA17774-02	86,358
MC KHANN, CHARLES F.....	LYMPHOID CELL INTERACTIONS IN MALIGNANCY.....	1R01 CA19510-01	72,180
MEYER, MAURICE W.....	CIRCULATION STUDIES IN TEETH AND SUPPORTING STRUCTURES.....	5R01 DE02212-09	62,716
MICHAEL, ALFRED F.....	STUDY OF RENAL DISEASE IN CHILDHOOD.....	5R01 AI10704-16	119,433
MILLER, JACK W.....	UTERINE DRUGS, RECEPTORS, RELAXANTS AND LUMINAL FLUID.....	5R01 HD00443-14	25,084
MILLER, JACK W.....	OXYTOCIN AND NEUROPHYSIN STORAGE AND RELEASE.....	1R01 HD10268-01	37,898
MILLER, JOSHUA.....	ENHANCEMENT IN ORGAN TRANSPLANTATION.....	5R01 AM17407-02	44,717
MILLER, JOSHUA.....	ENHANCEMENT IN ORGAN TRANSPLANTATION.....	5R01 AM17407-03	47,403
MILLER, WILMER G.....	CHOLESTERIC POLYMER LIQUID CRYSTALS.....	5R01 GM16922-08	53,180
MIRKIN, BERNARD L.....	DEVELOPMENTAL AND CLINICAL PEDIATRIC PHARMACOLOGY.....	5R01 HD08580-02	195,819
MIRKIN, BERNARD L.....	DEVELOPMENTAL AND CLINICAL PEDIATRIC PHARMACOLOGY.....	5R01 HD08580-03	204,246
MOLDOW, CHARLES F.....	CELL SURFACE RECEPTORS FOR ONCOGENIC VIRUSES.....	3R01 CA13722-03S1	2,508
MOLDOW, CHARLES F.....	CELL SURFACE RECEPTORS FOR ONCOGENIC VIRUSES.....	2R01 CA13722-04A1	50,840

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MINNESOTA—Continued</b>			
NAJARIAN, JOHN S.	STUDIES OF ORGAN TRANSPLANTATION IN ANIMALS AND MAN	5P01 AM13083-08	411,453
NAJARIAN, JOHN S.	STUDIES OF ORGAN TRANSPLANTATION IN ANIMALS AND MAN	5P01 AM13083-09	435,598
NAJARIAN, JOHN S.	IMMUNOLOGIC ADAPTATION TO HUMAN RENAL ALLOGRAFTS	2R01 AM16011-04A1	64,841
NAJARIAN, JOHN S.	ISOLATION AND TRANSPLANTATION OF PANCREATIC ISLETS	5R01 AM16566-03	75,211
NELSON, KENNETH G.	RATE OF $\text{Sn3F3PO}_4$ FORMATION ON TOOTH MINERAL	5R01 DE03688-03	4,476
NESBIT, MARK E., JR.	COOPERATIVE STUDY OF CHEMOTHERAPY FOR CHILDREN'S CANCER	5R10 CA07306-13	134,006
OPPENHEIMER, JACK H.	THYROXINE-PROTEIN INTERACTIONS	7R01 AM19812-01	60,819
PAPARELLA, MICHAEL M.	EXPERIMENTALLY INDUCED SEROUS OTITIS MEDIA	5R01 NS07623-09	79,128
PAPARELLA, MICHAEL M.	MECHANISMS OF HEARING LOSS	5P50 NS12125-02	493,963
PARSONS, JONATHAN A.	DEVELOPMENT OF NEOPLASTIC PITUITARY TUMOR CELLS	5R01 CA17476-02	35,120
PASS, FRANKLIN	HUMAN PAPILLOMA VIRUS-ASSOCIATED ANTIGENS	5R01 CA15955-03	45,412
PICK, ANNE	MINNESOTA SYMPOSIUM ON CHILD PSYCHOLOGY	5R13 HD01765-10	7,063
PLAGEMANN, PETER G.	REPLICATION OF LDH-ELEVATING VIRUS AND MENOGENOVIRUS	5R01 CA16959-10	60,862
PORTOGHESE, PHILIP S.	SELECTIVE INHIBITORS OF PROSTAGLANDIN BIOSYNTHESIS	5R01 HL16524-02	48,750
PRINEAS, RONALD J.	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	5R01 HL1898-09	26,470
PURPLE, RICHARD L.	STUDIES ON INTEGRATIVE MECHANISMS OF NEURONS	5R01 EY00293-11	31,586
QUEBBEMANN, ALOYSIUS J.	THE PHARMACOLOGY OF RENAL TUBULAR EXCRETORY TRANSPORT	2R01 AM14145-07	34,066
QUICK, CEDRIC A.	ETIOLOGY AND IMMUNOBIOLOGY OF LARYNGEAL PAPILLOMA	1R01 CA17136-01A1	61,029
QUIE, PAUL G.	HOST REACTIONS TO MICROORGANISMS IN CHRONIC DISEASE	5R01 AI06931-11	52,821
QUIE, PAUL G.	STUDIES OF OPSONINS IN PHAGOCYTOSIS	2R01 AI08821-07	71,517
QUIE, PAUL G.	HOST DEFENSE AGAINST CANDIDA ALBICANS	5R01 AI12402-02	53,629
QUIE, PAUL G.	HOST DEFENSE AGAINST CANDIDA ALBICANS	5R01 AI12402-03	59,732
RATHBUN, WILLIAM B.	GLUTATHIONE METABOLISM IN OCULAR TISSUES	5R01 EY01197-03	81,118
RESCH, JOSEPH A.	CEREBRAL VASCULAR PROGRAM PROJECT - CLINICAL CENTER	5P01 NS03364-14	605,298
REYNOLDS, JOHN W.	ADRENOCORTICAL FUNCTION IN ABNORMAL NEWBORN INFANTS	3R01 HD05001-06S1	25,624
RISTOW, SANDRA S.	PURIFICATION OF TUMOR SPECIFIC ANTIGENS	5R01 CA14815-03	43,852
ROON, ROBERT J.	BIOTIN HOLOENZYME SYNTHETASE: MECHANISM & SPECIFICITY	5R01 GM20207-03	16,723
ROON, ROBERT J.	L-ASPARAGINASE: SYNTHESIS OF AN EXTERNAL YEAST ENZYME	1R01 GM22374-01	39,768
ROON, ROBERT J.	AMINO ACID TRANSPORT IN YEAST: ENERGETICS & REGULATION	1R01 GM23135-01	37,001
SALAPATEK, PHILIP H.	PATTERN PROCESSING DURING HUMAN INFANCY	5R01 HD07317-02	67,677
SCARR-SALAPATEK, SANDRA W.	BEHAVIORAL AND GENETIC STUDIES OF FAMILIES	5R01 HD08016-03	76,976
SCHACHTELE, CHARLES F.	STUDIES ON THE MOLECULAR BASIS OF DENTAL CARIES	3R01 DE03654-03S1	9,808
SCHACHTELE, CHARLES F.	STUDIES ON THE MOLECULAR BASIS OF DENTAL CARIES	2R01 DE03654-04	51,418
SCHAEFFER, ERWIN M.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05322-15	71,115
SCHMIDTKE, JON R.	CELLULAR IMMUNOLOGY OF HUMAN LYMPHOCYTES	5R01 AI12813-02	23,357
SCHMITT, OTTO H.	ANALYSIS OF TIME-COHERENT CARDIOVASCULAR DATA	5R01 HL07575-13	69,892
SCHMITT, OTTO H.	ANALYSIS OF TIME-COHERENT CARDIOVASCULAR DATA	5R01 HL07575-14	72,950
SCHUMAN, LEONARD M.	EPIDEMIOLOGIC STUDY OF PROSTATIC CANCER	5R26 CA18467-02	115,788
SCHWARTZ, SAMUEL	PORPHYRIN, HEME, AND BILE PIGMENT METABOLISM	2R01 AM12466-12	67,294
SIMMONS, RICHARD L.	ORGAN REPLACEMENT USING GRAFTS MODIFIED IN VITRO	5R01 AI12754-02	89,054
SIMMONS, RICHARD L.	IMMUNOLOGICAL REACTIVITY IN SPECIAL CIRCUMSTANCES	5R01 CA11605-08	147,968
SINGER, LEON	FLUORIDE METABOLISM	2P01 DE01850-13	143,373
SOINE, TAITO O.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05634-09	18,936
SONG, CHANG W.	VASCULARITY AND REOXYGENATION IN X-IRRADIATED TUMORS	3R01 CA13353-03S1	9,639
SPARBER, SHELDON B.	LASTING EFFECTS OF PRENATAL LOW DOSE METHYLMERCURY	5R01 ES00760-03	38,745
STAUFFER, LEE D.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05448-15	21,993
SUTHERLAND, DAVID E.	PANCREATIC ISLET TRANSPLANTATION IN DIABETIC PATIENTS	1R01 AM19269-01	80,400
TAYLOR, HENRY L.	CARDIAC FUNCTION AND PROGNOSIS OF CORONARY DISEASE	5R01 HL14905-05	3,208
TAYLOR, HENRY L.	MYOCARDIAL FUNCTION, RISK FACTORS AND FUTURE CHD	5R01 HL16909-02	32,627
TERZUOLO, CARLO A.	PROBLEMS OF NERVE CELL PHYSIOLOGY	5R01 NS02567-17	63,148
TOBIAN, LOUIS	KIDNEY, NA, CARDIAC OUTPUT, ARTERIOLES, & HYPERTENSION	5P01 HL17871-02	387,405
TRELOAR, ALAN E.	AGING OF THE MENSTRUAL FUNCTION: A LIFE WITHIN A LIFE	1R01 AG00312-01	22,877
TRELOAR, ALAN E.	AGING OF THE MENSTRUAL FUNCTION: A LIFE WITHIN A LIFE	5R01 AG00312-02	23,176
ULSTROM, ROBERT A.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00400-08	636,115
VAN PILSUM, JOHN F.	REGULATION OF RAT KIDNEY TRANSAMINASE ACTIVITIES	5R01 AM17672-03	29,106
VERNIER, ROBERT L.	MALDEVELOPMENT OF EMBRYONIC AND FETAL KIDNEY AND LUNG	5R01 AM15146-06	45,229
VERNIER, ROBERT L.	IMMUNOLOGIC MECHANISMS IN CARDIOVASCULAR DISEASE	5P01 HL06314-16	1,081,367
VINCE, ROBERT	RIBOSOMAL MAPPING WITH CARBOCYCLIC PUROMYCIN ANALOGS	2R01 CA13592-07	87,268
VINCE, ROBERT	DESIGN OF AMINONUCLEOSIDE CHEMOTHERAPEUTIC AGENTS	5R01 CA16623-02	60,832
VISSCHER, MAURICE B.	MYOCARDIAL PHYSIOLOGY	3R01 HL03212-18S1	16,579



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MINNESOTA—Continued</b>			
WANGENSTEEN, O DOUGLAS .....	BLOOD-GAS BARRIER STUDIES IN FETAL & NEONATAL LUNGS.....	5R01 HD08981-02	31,324
WANNAMAKER, LEWIS W .....	BIOLOGY OF STREPTOCOCCI .....	5P01 AI08724-20	107,421
WANNAMAKER, LEWIS W .....	BIOLOGY OF STREPTOCOCCI .....	5P01 AI08724-21	111,606
WANNAMAKER, LEWIS W .....	EPIDEMIOLOGY OF STREPTOCOCCAL INFECTIONS.....	5R01 AI09527-12	132,810
WATSON, DENNIS W .....	STREPTOCOCCAL PYROGENIC EXOTOXINS: HOST INTERACTIONS.....	5R01 AI06487-12	66,777
WATSON, DENNIS W .....	IMMUNOBIOLOGY OF GRAM-NEGATIVE BACTERIAL ENDOTOXINS.....	5R01 AI12673-02	35,986
WATTENBERG, LEE W .....	MICROSOMAL INDUCTION AND RESPONSE TO CARCINOGENS.....	2R01 CA09599-18	71,377
WATTENBERG, LEE W .....	MICROSOMAL INDUCTION AND RESPONSE TO CARCINOGENS.....	5R01 CA09599-19	78,512
WATTENBERG, LEE W .....	INHIBITION OF CHEMICAL CARCINOGENESIS.....	2R01 CA14146-04	77,832
WATTENBERG, LEE W .....	INHIBITION OF NEOPLASIA OF THE LARGE BOWEL.....	5R26 CA15638-03	61,458
WHITE, JAMES G .....	STRUCTURAL PHYSIOLOGY & PATHOLOGY OF BLOOD PLATELETS.....	5R01 HL11880-08	89,478
WITKOP, CARL J, JR .....	OCULOCUTANEOUS PIGMENT DEFECTS, BLOCKS AND TREATMENT.....	5R01 AM15317-05	44,575
WITKOP, CARL J, JR .....	ALBINISM.....	5P01 GM22167-02	111,478
WOLD, FINN .....	PROTEIN STRUCTURE AND FUNCTION.....	5R01 GM15053-10	64,726
WOLD, FINN .....	PROTEIN STRUCTURE AND FUNCTION.....	5R01 GM15053-11	94,034
YUNIS, EDMOND J .....	IMMUNOGENETICS OF AGING IN MAN.....	5R01 AG00470-02	55,554
YUNIS, EDMOND J .....	IMMUNOLOGIC FACTORS IN SPONTANEOUS MAMMARY CARCINOMA.....	5R01 CA11933-05	50,713
YUNIS, JORGE J .....	HETEROCHROMATIN, REPETITIVE DNA, AND CELL FUNCTION.....	5R01 HD01962-11	51,566
ZIMMERMAN, BEN G .....	PHARMACOLOGIC AND REFLEX INFLUENCE ON VASCULAR TONE.....	5R01 HL08570-13	45,140
ORGANIZATION TOTAL	230	20,848,775	
<b>NORTHFIELD</b>			
<b>ST. OLAF COLLEGE      ZIP CODE 55057</b>			
HENDRICKSON, H STEWART .....	LIPOLYTIC ENZYME ACTION ON LIPID MEMBRANES.....	5R01 NS11777-02	19,345
HENDRICKSON, H STEWART .....	LIPOLYTIC ENZYME ACTION ON MIXED LIPID MONOLAYERS.....	2R01 NS11777-03	22,224
ORGANIZATION TOTAL	2	41,569	
<b>ROCHESTER</b>			
<b>AMERICAN ACADEMY OF OPHTHALMOLOGY AND OTOLARYNGOLOGY      ZIP CODE 55901</b>			
TSO, MARK O .....	PATHOLOGY OF RETINAL DYSFUNCTION.....	3R01 EY00790-04S1	7,444
TSO, MARK O .....	PATHOLOGY OF RETINAL DYSFUNCTION.....	2R01 EY00790-05	18,014
ORGANIZATION TOTAL	2	25,458	
<b>INDIVIDUAL AWARD—SIEKERT, ROBERT G.      ZIP CODE 55901</b>			
SIEKERT, ROBERT G .....	SURVEY REPORT ON CEREBROVASCULAR DISEASE - 4TH EDITION.....	5R13 NS08330-05	25,705
ORGANIZATION TOTAL	1	25,705	
<b>MAYO FOUNDATION      ZIP CODE 55901</b>			
ARNAUD, CLAUDE D .....	PARATHYROID HORMONE AND CALCITONIN .....	2R01 AM12302-09	135,928
ARNAUD, SARA B .....	25-HYDROXYVITAMIN D METABOLISM IN GI DISEASE .....	1R01 AM18977-01	57,989
ATASSI, M ZOUHAIR .....	DETERMINATION OF THE ANTIGENIC STRUCTURE OF LYSOZYME.....	7R01 AI13181-01	20,360
ATASSI, M ZOUHAIR .....	DETERMINATION OF THE ANTIGENIC STRUCTURE OF LYSOZYME.....	5R01 AI13181-02	24,275
ATASSI, M ZOUHAIR .....	IMMUNOCHEMICAL STUDIES ON HEMOGLOBIN AND MYOGLOBIN.....	7R01 AM18920-01	45,922
ATASSI, M ZOUHAIR .....	IMMUNOCHEMICAL STUDIES ON HEMOGLOBIN AND MYOGLOBIN.....	5R01 AM18920-02	48,311
BAKER, HILLIER L, JR .....	COMPUTERIZED ROENTGENOLOGIC/CLINICAL DIAGNOSTIC METHODS.....	5R01 CA15902-03	33,206
BEELER, GEORGE W, JR .....	EXCITATION-CONTRACTION COUPLING IN MYOCARDIUM.....	5R01 HL12824-06	59,282
BISEL, HARRY F .....	COOPERATIVE STUDY OF CANCER OF THE BREAST.....	3R10 CA03664-17S1	9,786
BLINKS, JOHN R .....	CALCIUM TRANSIENTS IN STRIATED MUSCLE AND OTHER CELLS.....	5R01 HL12186-07	85,787
BOWIE, E J WALTER .....	CONTROL OF COAGULATION.....	5P01 HL17430-02	275,439
BOWIE, E J WALTER .....	CONTROL OF COAGULATION.....	5P01 HL17430-03	360,868
BRIMJOU, WILLIAM S .....	AXONAL TRANSPORT IN ADRENERGIC AND CHOLINERGIC NERVES.....	5R01 NS11855-05	9,682
BROWN, ARNOLD L, JR .....	HISTOLOGICAL GRADING OF PROSTATIC CARCINOMA.....	2R26 CA15804-03	19,858
BRUBAKER, RICHARD F .....	PATHOLOGY OF THE BLOOD-AQUEOUS BARRIER.....	3R01 EY00634-05S1	37,041
BRUBAKER, RICHARD F .....	PATHOLOGY OF THE BLOOD-AQUEOUS BARRIER.....	2R01 EY00634-06	64,719
CARR, DAVID T .....	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE).....	3P30 CA15083-02S1	100,000
CHAO, EDMUND Y .....	FUNCTIONAL FORCES IN NORMAL AND ABNORMAL FINGERS.....	5R01 AM17172-02	67,911
CHAO, EDMUND Y .....	FUNCTIONAL FORCES IN NORMAL AND ABNORMAL FINGERS.....	5R01 AM17172-03	65,768



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MINNESOTA—Continued</b>			
DICKSON, EDGAR R.	PRIMARY BILIARY CIRRHOSIS: PENICILLAMINE TRIAL	1R01 AM19448-01	67,067
DIDISHEIM, PAUL	TRANSPORT PHENOMENA IN THROMBOSIS	5R01 HL17443-02	34,467
DONALD, DAVID E.	RESPONSE OF THE TOTALLY DENERVATED HEART TO EXERCISE	2R01 HL06143-16	95,131
DOUSA, THOMAS P.	CELLULAR ACTION OF VASOPRESSIN IN THE KIDNEY	5R01 AM16105-05	74,005
DYCK, PETER J.	PERIPHERAL NEUROPATHY IN MAN AND IN EXPERIMENTAL ANIMALS	2R01 NS05811-12	117,406
EARLE, JOHN D.	TOTAL BODY IRRADIATION IN ADVANCED MOUSE LYMPHOMA	7R01 CA21695-01	56,247
ENGEL, ANDREW G.	ELECTRON MICROSCOPY OF MYOPATHIES	5R01 NS06277-11	74,231
FARROW, GEORGE M.	URINE CYTOLOGY	5R26 CA16725-02	30,325
FUSTER, VALENTIN	ATHEROSCLEROSIS IN BLEEDER AND DRUG TREATED PIGS	1R01 HL19001-01	67,827
GLEICH, GERALD J.	THE FUNCTIONS OF EOSINOPHILS	5R01 AI09728-07	51,074
GLEICH, GERALD J.	ALLERGIC DISEASE CENTER PROGRAM GRANT	5P50 AI11483-04	84,696
GODT, ROBERT E.	CALCIUMION, LENGTH & FORCE VS. VELOCITY IN MUSCLE	5R01 AM17828-02	36,766
HAWN, RICHARD G.	COOPERATIVE STUDY OF ONCOLOGY	5R10 CA13650-04	122,453
HAWN, RICHARD G.	CHEMOTHERAPY OF METASTATIC BLADDER AND KIDNEY CANCER	1R26 CA20247-01	57,420
HARRISON, CARLOS E. JR.	MYOCARDIAL DEFECTS INDUCED BY POTASSIUM DEPLETION	5R01 AI12049-03	58,502
HOFMANN, ALAN F.	ROLE OF BILE-ACID METABOLISM IN HEALTH AND DISEASE	5R01 AM16770-04	92,723
HYATT, ROBERT E.	VENTILATION MECHANICS IN CHRONIC PULMONARY DISEASE	5R01 HL12229-14	88,373
HYATT, ROBERT E.	PULMONARY MECHANICS	5R01 HL14593-05	16,403
HYATT, ROBERT E.	ENGINEERING APPROACH TO RESPIRATORY MECHANICS	1R01 HL19205-01	67,372
JONES, JAMES D.	GUANIDINES, N RESTRICTION AND RENAL FAILURE	1R01 AM19142-01	36,001
JORDON, ROBERT E.	IMMUNOPATHOLOGY OF BULLOUS SKIN DISEASES	5R01 AI20449-03	62,233
JOWSEY, JENIFER O.	STUDY OF OSTEOPOROSIS AND METABOLIC BONE DISORDERS	5R01 AM08658-12	141,552
KAYE, MICHAEL P.	NERVE GROWTH FACTOR EFFECT ON THE DENERVATED HEART	5R01 HL18123-02	64,878
KELLY, KEITH A.	MOTILITY OF THE DIGESTIVE TRACT IN HEALTH AND DISEASE	5R01 AM18278-02	82,499
KELLY, PATRICK J.	HEMODYNAMIC FACTORS IN FRACTURES AND BONE DISEASE	5R01 AM15980-04	54,216
KERR, FREDERICK W.	INVESTIGATION OF THE PHYSIOLOGICAL BASIS OF ACUPUNCTURE	5R01 GM21981-02	41,520
KERR, FREDERICK W.	SOMATIC SENSORY AND VISCERAL EFFERENT PATHWAYS	5R01 NS05995-10	77,335
KLINE, BRUCE C.	PLASMID DNA REPLICATION	5R01 GM22682-02	38,493
KNOX, FRANKLYN G.	INTRARENAL REGULATION OF ELECTROLYTE REABSORPTION	2R01 HL14133-06	101,722
KOTIKE, BRUCE A.	LIPIDS, THROMBOSIS AND GENETICS IN ATHEROSCLEROSIS	3P50 HL14196-05S1	329,587
KUEPPERS, FRIEDRICH	PROTEASE INHIBITORS IN HUMAN BRONCHIAL MUCUS	5R01 HL16752-02	37,795
KURLAND, LEONARD T.	STUDY OF NATURAL HISTORY OF HEART, CANCER, AND STROKE	2P01 GM14231-11	485,155
KYLE, ROBERT A.	CHEMOTHERAPY OF ACUTE LEUKEMIA AND RELATED DISORDERS	5R10 CA04646-17	48,611
KYLE, ROBERT A.	STUDIES ON MONOCLONAL GAMMOPATHIES IN HUMANS	5P01 CA16835-02	80,934
LAI-FOOK, STEPHEN J.	QUANTIFICATION OF BRONCHIAL-PARENCHYMAL INTERDEPENDENCE	1R23 HL18354-01A1	46,202
MALDONADO, JORGE E.	THE PLATELET LINE IN MYELOPROLIFERATIVE MALIGNANCIES	5R01 HL15103-03	62,017
MANN, KENNETH G.	PRIMARY STRUCTURE OF PROTHROMBIN	5R01 HL16150-03	55,014
MATTOX, VERNON R.	CORTISONEGLUCOSIDURONIC ACID: SYNTHESIS AND ISOLATION	5R01 AM05452-14	82,893
MC DUFFIE, FREDERIC C.	IMMUNE COMPLEXES IN RHEUMATOID ARTHRITIS	5R01 AM17174-03	72,591
MC GOON, DWIGHT C.	INTRAVENTRICULAR BALLOON CARDIAC ASSIST	2R01 HL15459-02	56,425
MEYERS, PAUL	TOLERANCE AND IMMUNITY TO AVIAN RNA TUMOR VIRUSES	5R01 CA15494-04	58,772
MICHENFELDER, JOHN D.	CEREBRAL METABOLISM AND BLOOD FLOW	5R01 NS07507-10	90,635
MILLIKAN, CLARK H.	CEREBROVASCULAR CLINICAL RESEARCH CENTER	5P50 NS06663-10	322,372
MOERTEL, CHARLES G.	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	5P30 CA15083-03	867,423
MOSES, HAROLD L.	MECHANISM OF CHEMICAL CARCINOGENESIS IN VITRO	5R01 CA15681-02	73,155
MOSES, HAROLD L.	MECHANISM OF CHEMICAL CARCINOGENESIS IN VITRO	5R01 CA16816-03	74,113
MULDOON, SHEILA M.	GENERAL ANESTHETICS AND VASCULAR NEUROEFFECTOR SYSTEM	1R01 GM23347-01	59,311
PALUMBO, PASQUALE J.	STEROL BALANCE AND CHOLESTEROL ABSORPTION IN DIABETICS	5R01 HL20483-01	63,780
PALUMBO, PASQUALE J.	PERIPHERAL ARTERIAL DISEASE IN THE DIABETIC	1R01 HL20522-01	307,148
PENNISTON, JOHN T.	VACUOLE FORMATION IN HUMAN ERYTHROCYTES AND GHOSTS	7R01 AM19785-01	16,742
PENNISTON, JOHN T.	VACUOLE FORMATION IN HUMAN ERYTHROCYTES AND GHOSTS	5R01 AM19785-02	55,276
PIERRE, ROBERT V.	CHROMOSOME ANALYSES IN THE DIAGNOSIS OF PRELEUKEMIA	5R01 CA12843-05	69,205
REHDER, KAI	ALVEOLAR VENTILATION IN ANESTHETIZED MAN	5R01 HL12090-09	64,336
ROBERTSON, DENNIS M.	CHORIORETINOPATHY	1R01 EY01709-01	48,164
ROMERO, JUAN C.	PROSTAGLANDINS IN RENAL HYPERTENSION	2R01 HL16496-02	69,374
RUSSELL, JAMES A.	AUTONOMIC RECEPTORS IN AIRWAY SMOOTH MUSCLE	1R01 HL19470-01	32,562
RYAN, ROBERT J.	MODE OF ACTION OF REPRODUCTIVE HORMONES	5P50 HD09140-02	429,367
SHEPHERD, JOHN T.	REFLEX CONTROL OF RESISTANCE AND CAPACITANCE VESSELS	5R01 HL05883-16	119,498
SHEPHERD, JOHN T.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00585-05	489,031
SHEPHERD, JOHN T.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05530-14	261,305

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MINNESOTA—Continued</b>			
SHORTER, ROY G.....	INFLAMMATORY BOWEL DISEASE: CYTOTOXIC MECHANISMS.....	1R01 AM18634-01	55,673
SMITH, LYNNWOOD H.....	EPITAXIAL RELATIONSHIPS IN UROLITHIASIS.....	5R01 AM17717-03	31,023
SMITH, LYNNWOOD H.....	CALCIUM UROLITHIASIS.....	5R01 AM17858-02	63,106
SMITH, LYNNWOOD H.....	CALCIUM UROLITHIASIS.....	5R01 AM17858-03	63,735
SPELSBERG, THOMAS C.....	ACIDIC CHROMATIN PROTEINS AND CARCINOGENS.....	5R01 CA14920-04	67,911
STAUFFER, RICHARD N.....	BIOMECHANICAL EVALUATION OF TOTAL KNEE ARTHROPLASTY.....	1R01 AM18029-01A1	102,867
STOBO, JOHN D.....	STUDY OF ROLE OF MURINE THYMUS-DERIVED LYMPHOCYTES.....	5R01 AI12054-03	33,298
SUBBIAH, M T RAVI.....	EARLY INTERVENTION OF AGE-RELATED ARTERIAL CHANGES.....	1R01 HL18610-01	36,920
SUMMERSKILL, WILLIAM H.....	STUDY OF DIGESTIVE AND HEPATOBILIARY FUNCTION.....	5P01 AM06308-14	171,985
SZURSZEWSKI, JOSEPH H.....	GASTRINS, NEUROTRANSMITTERS AND ANTRAL SMOOTH MUSCLE.....	5R01 AM17238-03	42,767
SZURSZEWSKI, JOSEPH H.....	NEUROPHYSIOLOGICAL CONTROL OF GI MOTILITY.....	5R01 AM17632-03	27,747
TANCREDI, ROBERT G.....	CAPILLARY PERMEABILITY IN THE LUNG.....	5R01 HL16623-03	57,441
TAYLOR, JOSEPH C.....	ELASTASE-ANTITRYPSIN INTERACTIONS IN EMPHYSEMA.....	1R23 HL19510-01	42,012
TAYLOR, STUART R.....	STIMULUS-RESPONSE COUPLING IN CONTRACTILE CELLS.....	5R01 NS10327-05	34,751
THEYE, RICHARD A.....	GAS EXCHANGE DURING ANESTHESIA AND SURGERY.....	5R01 GM21729-17	63,942
THISTLE, JOHNSON L.....	HUMAN GALLSTONES: THERAPEUTIC TRIAL WITH BILE ACIDS.....	5R01 AM15887-05	78,167
TOMASI, THOMAS B, JR.....	THE IGA GLOBULINS OF SERUM AND EXTERNAL SECRETIONS.....	5R01 AM17554-03	100,658
TOMASI, THOMAS B, JR.....	THE IGA GLOBULINS OF SERUM AND EXTERNAL SECRETIONS.....	5R01 AM17554-04	97,805
TOMASI, THOMAS B, JR.....	IMMUNOSUPPRESSION IN EXPERIMENTAL AND HUMAN TUMORS.....	1R01 CA18204-01	140,007
TOMASI, THOMAS B, JR.....	STUDIES OF MATERNAL AND NEONATAL IMMUNITY.....	1R01 HD09720-01	81,214
TYCE, GERTRUDE M.....	METABOLISM OF AROMATIC AMINES.....	5R01 NS09143-05	46,656
TYCE, GERTRUDE M.....	A STUDY OF DEMETHYLATION IN RED BLOOD CELLS.....	5R01 NS12367-02	43,094
VAN DYKE, RUSSELL A.....	MECHANISMS OF ENZYMIC DECHLORINATION.....	5R01 ES00743-05	51,333
VAN DYKE, RUSSELL A.....	METABOLISM OF VOLATILE ANESTHETICS.....	5R01 GM17158-05	41,290
VAN DYKE, RUSSELL A.....	METABOLISM OF VOLATILE ANESTHETICS.....	5R01 GM17158-06	46,506
VENEZIALE, CARLO M.....	HORMONAL REGULATION OF GLUCONEOGENESIS IN HEPATOCYTES.....	2R01 AM16319-03	60,915
WEINSHILBOUM, RICHARD M.....	ADRENERGIC-VASOREGULATORY INTERACTIONS IN HYPERTENSION.....	5R01 HL17487-02	74,275
WEINSHILBOUM, RICHARD M.....	ADRENERGIC-VASOREGULATORY INTERACTIONS IN HYPERTENSION.....	5R01 HL17487-03	76,482
WEINSHILBOUM, RICHARD M.....	DOPAMINE-BETA-HYDROXYLASE-NEURAL RELEASE & METABOLISM.....	2R01 NS11014-02	56,763
WHISNANT, JACK P.....	CLINICAL STUDY OF CEREBROVASCULAR DISEASE.....	2P50 NS06663-11	216,583
WOOD, EARL H.....	CARDIOVASCULAR & LUNG DYNAMICS.....	5P01 HL04664-16	525,588
WOOD, EARL H.....	COMPUTER PROCESSING IN BIOMEDICAL SYSTEMS.....	5P41 RR00007-13	478,785
ORGANIZATION TOTAL	111	11,555,161	
<b>SAINT PAUL</b>			
<b>MACALESTER COLLEGE ZIP CODE 55105</b>			
WHITEHEAD, RUSSELL A.....	MORPHOLOGY AND FUNCTION OF VISUAL SYSTEMS.....	5R01 EY00526-05	37,162
ORGANIZATION TOTAL	1	37,162	
<b>UNITED HOSPITALS ZIP CODE 55102</b>			
EDWARDS, JESSE E.....	FUNCTIONAL PATHOLOGY OF CARDIOVASCULAR DISEASE.....	2R01 HL05694-17	75,338
EDWARDS, JESSE E.....	FUNCTIONAL PATHOLOGY OF CARDIOVASCULAR DISEASE.....	5R01 HL05694-18	58,378
ORGANIZATION TOTAL	2	133,716	
<b>UNIVERSITY OF MINNESOTA ZIP CODE 55455</b>			
ANDERSON, JOHN S.....	ENZYMOLGY OF BACTERIAL CELL MEMBRANES.....	2R01 AI08295-08	49,308
BLOOMFIELD, VICTOR A.....	INELASTIC LIGHT SCATTERING OF VIRUSES AND CELLS.....	5R01 GM17855-06	52,537
BLUMENFELD, MARTIN S.....	SATELLITE DNA & MOLECULAR ORGANIZATION OF CHROMOSOMES.....	5R01 GM22138-02	39,606
BRAMEL, ROBERT M.....	FUNGAL SPORE GERMINATION AND MITOCHONDRIAL BIOGENESIS.....	5R01 GM19398-03	24,826
BROOKS, MARION A.....	SYMBIOTES AS MODELS OF VECTOR PARASITISM.....	5R01 AI09914-06	50,099
BROOKS, MARION A.....	SYMBIOTES AS MODELS OF VECTOR PARASITISM.....	5R01 AI09914-07	54,386
DAGLEY, STANLEY.....	THE ENZYMIC DEGRADATION OF AROMATIC COMPOUNDS.....	5R01 ES00678-10	46,684
ENFIELD, FRANKLIN D.....	INVESTIGATIONS IN QUANTITATIVE GENETICS.....	5R01 GM16074-08	30,658
FAN, DAVID P.....	CELL GROWTH AND DIVISION.....	2R01 GM19483-07	59,994
FAN, DAVID P.....	CELL GROWTH AND DIVISION.....	5R01 GM19483-08	55,346
FLETCHER, THOMAS F.....	DEVELOPMENTAL NERVOUS DISORDERS: KRABBE'S DISEASE.....	5R01 NS06756-09	55,530
FLETCHER, THOMAS F.....	DEVELOPMENTAL NERVOUS DISORDERS: KRABBE'S DISEASE.....	2R01 NS06756-10	67,020
FUCHS, JAMES A.....	DEOXYRIBONUCLEOTIDE METABOLISM IN ESCHERICHIA COLI.....	5R01 GM20884-03	37,838

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MINNESOTA—Continued</b>			
GANDER, JOHN E.....	FUNGAL GLYCOPEPTIDE BIOSYNTHESIS.....	5R01 GM19978-02	19,189
GANDER, JOHN E.....	FUNGAL GLYCOPEPTIDE BIOSYNTHESIS.....	5R01 GM19978-03	19,446
GANDER, JOHN E.....	GLYCAN ROLE IN GALACTOFURANOSIDASE PROPERTIES.....	5R01 GM20441-02	12,350
GRAHAM, EDMUND F.....	PRINCIPLES OF CRYOPRESERVATION.....	5R01 GM20531-03	28,491
GRAHAM, EDMUND F.....	FREEZE DRYING OF NUCLEATED MAMMALIAN CELLS.....	5R01 HD07632-03	37,768
HENDERSON, LA VELL M.....	NIACIN AND VITAMIN B6 METABOLISM IN RAT INTESTINE.....	1R01 AM19012-01	62,533
HERMAN, ROBERT K.....	DEVELOPMENTAL GENETICS OF CAENORHABDITIS ELEGANS.....	1R01 GM22387-01	44,292
HERMAN, WILLIAM S.....	LEPIDOPTERAN REPRODUCTIVE NEUROENDOCRINOLOGY.....	5R01 HD07336-03	33,066
JOHNSON, DONALD W.....	IMMUNOLOGIC CONTROL OF C-TYPE VIRUS ACTIVATION.....	5R01 CA17232-02	42,218
LIENER, IRVIN E.....	THE AVAILABILITY OF AMINO ACIDS OF LEGUMES.....	5R01 AM18324-02	32,645
LIENER, IRVIN E.....	THE ROLE OF PROTEOLYSIS IN MALIGNANT GROWTH.....	5R01 CA16231-03	23,357
LIENER, IRVIN E.....	BIOCHEMICAL STUDIES ON THE PATHOGENESIS OF EMPHYSEMA.....	5R01 HL14865-04	55,653
LIENER, IRVIN E.....	BIOCHEMICAL STUDIES ON THE PATHOGENESIS OF EMPHYSEMA.....	5R01 HL14865-05	51,141
LOVRIEN, REX E.....	RESTORATION OF FUNCTION OF DAMAGED CELLS AND ENZYMES.....	2R01 GM18807-04	64,645
LOVRIEN, REX E.....	RESTORATION OF FUNCTION OF DAMAGED CELLS AND ENZYMES.....	5R01 GM18807-05	59,045
LOVRIEN, REX E.....	QUANTITATIVE MEASUREMENT OF CELL INTERACTIONS.....	5R01 GM19791-02	14,786
MUNCK, ECKARD.....	STUDIES OF O <sub>2</sub> ACTIVATION BY MOSSBAUER SPECTROSCOPY.....	1R01 GM22701-01	49,535
NELSESTUEN, GARY L.....	THE CARBOHYDRATE OF THE BLOOD-CLOTTING GLYCOPROTEINS.....	2R01 HL15728-04	62,079
PHILLIPS, RICHARD E.....	BRAIN ORGANIZATION OF SPECIES-TYPICAL BEHAVIOR.....	1R01 NS12686-01	37,770
RICHARDS, A GLENN.....	STRUCTURE & PERMEABILITY STUDIES ON MOSQUITOES & FLEAS.....	5R01 AI09559-07	40,225
ROSENBERG, MURRAY D.....	MEMBRANE CHANGES DURING OOGENESIS AND FERTILIZATION.....	5R01 HD04702-06	69,429
SCHWARTZ, SAMUEL.....	METABOLIC STUDIES OF CONGENITAL BOVINE PORPHYRIA.....	2R01 AM02096-17	25,029
SCHWARTZ, SAMUEL.....	METABOLIC STUDIES OF CONGENITAL BOVINE PORPHYRIA.....	5R01 AM02096-18	33,906
SHERIDAN, JUDSON D.....	CELL JUNCTION FORMATION & ROLE IN CELL PROLIFERATION.....	5R01 CA16335-02	76,438
SNUSTAD, D PETER.....	PHAGE T4-INFECTED E. COLI: HETEROCATALYTIC EXPRESSION.....	5R01 AI07946-10	48,084
WARNER, HUBER R.....	NUCLEOTIDE METABOLISM AFTER PHAGE T5 INFECTION.....	5R01 GM21464-02	34,918
WEBER, ALVIN F.....	PREPARATION OF MAMMALIAN HISTOLOGICAL NOMENCLATURE.....	2R13 LM00824-07	3,300
WOOD, JOHN M.....	CHEMICAL STUDIES WITH FREE AND BOUND VITAMIN B12.....	2R01 AM18101-02	80,099
WOOD, JOHN M.....	CHEMICAL STUDIES WITH FREE AND BOUND VITAMIN B12.....	5R01 AM18101-03	61,455
WOODWARD, CLARE K.....	SOLVENT ACCESSIBILITY IN PROTEINS.....	5R01 GM18466-06	35,213
ORGANIZATION TOTAL	43	1,881,937	
STATE TOTAL	412	36,014,870	
<b>MISSISSIPPI</b>			
<b>CLINTON</b>			
MISSISSIPPI COLLEGE	ZIP CODE 39058		
COX, PRENTISS G.....	IN VIVO-IN VITRO STUDY OF MYOGENIC CELLS.....	5R01 GM17743-05	18,630
ORGANIZATION TOTAL	1	18,630	
<b>HATTIESBURG</b>			
UNIVERSITY OF SOUTHERN MISSISSIPPI	ZIP CODE 39401		
TOOM, PAUL M.....	STUDY OF TOXIN FROM A JELLYFISH MODEL.....	5R01 ES00858-03	24,042
TOOM, PAUL M.....	SYSTEMIC EFFECTS OF FRACTIONATED MAN-OF-WAR TOXIN.....	5R01 ES01088-02	39,042
ORGANIZATION TOTAL	2	63,084	
<b>HOLLY SPRINGS</b>			
MISSISSIPPI INDUSTRIAL COLLEGE	ZIP CODE 38635		
CHETTY, KOTHAPA N.....	COBALT-IRON INTERACTION STUDY.....	1S06 RR08133-01A1	63,654
ORGANIZATION TOTAL	1	63,654	
RUST COLLEGE	ZIP CODE 38635		
IGBOKWE, EMMANUEL C.....	THE BIOMEDICAL EFFECTS OF MERCURY AND INSECTICIDES.....	5S06 RR08000-05	50,406



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSISSIPPI—Continued</b>			
ORGANIZATION TOTAL	1	50,406	
<b>JACKSON</b>			
<b>JACKSON STATE UNIVERSITY</b>	<b>ZIP CODE 39217</b>		
GARRITY, EVELYN M.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S06 RR08047-05	204,575
ORGANIZATION TOTAL	1	204,575	
<b>UNIVERSITY OF MISSISSIPPI MEDICAL CENTER</b>	<b>ZIP CODE 39216</b>		
BECKER, KARL E.	C-V PARAMETERS & ANESTHETIC DOSES OF THIOBARBITURATES	1R01 GM22521-01A1	26,386
BERNDT, WILLIAM O.	DRUG AND HORMONE EFFECTS ON TRANSPORT PROCESSES	5R01 AM18124-03	39,468
BLASECKI, JOHN W., JR.	ROLE OF FREE TUMOR ANTIGEN IN IMMUNITY TO SV40 TUMORS	1R01 CA18298-01	52,173
BORONOW, RICHARD C.	GROUP STUDY OF GYNECOLOGIC CANCER PATIENTS	2R10 CA13633-05	77,816
BYERS, BENJAMIN R.	IRON: TRANSPORT AND REGULATORY FUNCTIONS	5R01 CA11886-06	36,743
COWLEY, ALLEN W., JR.	QUANTIFICATION OF ARTERIAL PRESSURE CONTROL	2R01 HL14306-04	52,073
COWLEY, ALLEN W., JR.	QUANTIFICATION OF ARTERIAL PRESSURE CONTROL	5R01 HL14306-05	43,969
CROWELL, JACK W.	STUDY OF PHYSIOLOGY OF THE BODY UNDER ACUTE STRESS	5R01 HL16036-03	23,120
CROWELL, JACK W.	STUDY OF PHYSIOLOGY OF THE BODY UNDER ACUTE STRESS	5R01 HL16036-04	23,708
DOUGLAS, BEN H.	BLOOD PRESSURE, ELECTROLYTE REGULATION IN PREGNANCY	5R01 HL16193-02	21,195
DOUGLAS, BEN H.	BLOOD PRESSURE, ELECTROLYTE REGULATION IN PREGNANCY	5R01 HL16193-03	24,541
GROGAN, JAMES B.	ANTERIOR CHAMBER IMPLANTS AND TRANSPLANTATION IMMUNOLOGY	5R01 AI09588-05	47,119
GUYTON, ARTHUR C.	CARDIOVASCULAR DYNAMICS AND THEIR CONTROL	5P01 HL11678-09	411,074
HARDY, JAMES D.	HEART TRANSPLANTATION	5R01 HL06163-15	69,962
HARDY, JAMES D.	LUNG TRANSPLANTATION	5R01 HL11730-08	101,837
HAYES, A WALLACE	THE EFFECTS OF RUBRATOXIN B ON MAMMALIAN SYSTEMS	7R01 ES01351-01	46,650
HAYES, A WALLACE	THE EFFECTS OF RUBRATOXIN B ON MAMMALIAN SYSTEMS	5R01 ES01351-02	29,066
HAYES, A WALLACE	CARCINOGENICITY OF ENVIRONMENTAL MYCOTOXINS	7R01 ES01352-01	63,332
HAYES, A WALLACE	CARCINOGENICITY OF ENVIRONMENTAL MYCOTOXINS	5R01 ES01352-02	75,267
KLEIN, RICHARD L.	ELECTRON MICROSCOPIC STUDIES IN PHARMACOLOGY	2R01 GM15490-09	53,279
KLEIN, RICHARD L.	ELECTRON MICROSCOPIC STUDIES IN PHARMACOLOGY	5R01 GM15490-10	58,926
LEHAN, PATRICK H.	ASSESSMENT OF INFUSION METHODS FOR MYOCARDIAL MAPPING	1R01 HL19289-01	62,368
MC CAA, CONNIE S.	MECHANISMS RELATED TO CONGESTIVE HEART FAILURE	5R01 HL09921-11	83,019
MORRISON, FRANCIS S.	SOUTHWEST ONCOLOGY GROUP	5R10 CA16385-02	65,866
NELSON, NORMAN C.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	2M01 RR00626-04	297,002
NELSON, NORMAN C.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05386-15	122,167
OELSHELGEI, FRED J., JR.	BIOCHEMISTRY OF MALARIA HOST-PARASITE INTERACTIONS	1R01 AI13356-01	55,479
PULLEN, D JEANETTE	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP	5R10 CA15989-02	49,916
RANDALL, CHARLES C.	BIOCHEMISTRY OF FOWLPOX REPLICATION AND HYPERPLASIA	5R01 AI02031-18	43,215
RANDALL, CHARLES C.	NUCLEIC ACIDS OF CELLS INFECTED WITH HERPES VIRUS	5R01 AI02032-19	70,299
SMITH, ROBERT R.	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE	5R01 NS12499-02	24,882
TAYLOR, AUBREY E.	TRANSPORT ACROSS ALVEOLAR CAPILLARY MEMBRANE	5R01 HL11477-09	23,788
TAYLOR, AUBREY E.	TRANSPORT ACROSS ALVEOLAR CAPILLARY MEMBRANE	5R01 HL11477-10	26,021
TAYLOR, AUBREY E.	INTESTINAL SECRETION-CAPILLARY AND TISSUE FORCES	3R01 HL15680-03S1	14,009
TAYLOR, AUBREY E.	INTESTINAL SECRETION-CAPILLARY AND TISSUE FORCES	2R01 HL15680-04	31,883
WATSON, ROBERT L.	BLOOD PRESSURE-PRECURSORS AND CONSEQUENCES	1R01 HL19858-01	117,810
WILKINSON, J SIDNEY	RADIOIMMUNOASSAY OF ANGIOTENSINOGEN	1R01 HL18561-01	47,067
ORGANIZATION TOTAL	37	2,512,495	
<b>LORMAN</b>			
<b>ALCORN STATE UNIVERSITY</b>	<b>ZIP CODE 39096</b>		
PARKER, HENRY L.	ROLE OF ANTICOAGULANTS IN IMMUNOCHEMISTRY OF CELLULASE	5S06 RR08095-04	58,999
ORGANIZATION TOTAL	1	58,999	
<b>MISSISSIPPI STATE</b>			
<b>MISSISSIPPI STATE UNIVERSITY</b>	<b>ZIP CODE 39762</b>		
GLICK, BRUCE	IMMUNOGLOBULINS OF BURSECTOMIZED CHICKENS	5R01 AI11894-03	39,534
GLICK, BRUCE	LYMPHOCYTE LIFESPAN IN NORMAL AND BURSA-LESS BIRDS	1R01 CA20169-01	24,679



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSISSIPPI—Continued</b>			
MILES, D HOWARD .....	ANTINEOPLASTIC AGENTS FROM AMERICAN PLANTS .....	2R01 CA13268-04	69,008
NORMENT, BEVERLY R. ....	DETERMINATION OF NECROTIC ENZYMES OF BROWN SPIDER VENOM.....	5R01 ES00651-02	14,804
TYSON, GRETA E. ....	VINBLASTINE EFFECTS ON CELL STRUCTURE AND FUNCTION .....	7R01 CA21497-01	17,350
YARBROUGH, JAMES D. ....	CHRONIC EFFECTS OF INSECTICIDES ON MAMMALIAN BEHAVIOR.....	5R01 ES00817-02	36,733
YARBROUGH, JAMES D. ....	CELLULAR STUDIES OF VERTEBRATE INSECTICIDE RESISTANCE.....	5R01 ES00840-03	44,223
ORGANIZATION TOTAL	7 246,331		
<b>TOUGALOO</b>			
<b>TOUGALOO COLLEGE</b> <b>ZIP CODE 39174</b>			
ASOKASRINIVASAN, G S. ....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	5S06 RR08110-04	49,492
ORGANIZATION TOTAL	1 49,492		
<b>UNIVERSITY</b>			
<b>UNIVERSITY OF MISSISSIPPI</b> <b>ZIP CODE 38677</b>			
BORNE, RONALD F. ....	2-AZABICYCLO(2.2.2)OCTANE ANALOGS AS RECEPTOR MODELS .....	5R01 NS09188-05	22,935
GUESS, WALLACE L. ....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05594-09	26,507
HUFFORD, CHARLES D. ....	ANTITUMOR AGENTS FROM WEST AFRICAN PLANTS .....	3R01 CA15590-02S2	588
SMITH, MICKEY C. ....	PHARMACIST AS A FAMILY PLANNING COUNSELOR .....	1R01 HD10690-01	31,243
ORGANIZATION TOTAL	4 81,273		
STATE TOTAL	56 3,348,939		
<b>MISSOURI</b>			
<b>COLUMBIA</b>			
<b>CANCER RESEARCH CENTER</b> <b>ZIP CODE 65201</b>			
KARDINAL, CARL G. ....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY .....	3R10 CA06800-13S1	106,302
MENGEL, CHARLES E. ....	SPECIALIZED MULTIDISCIPLINARY CANCER CENTER.....	2P01 CA08023-11A1	279,007
RIDENHOUR, C E GENE.....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA17946-01	118,531
RODES, NED D. ....	TEACHING TECHNIQUES FOR BREAST CANCER DETECTION .....	1R18 CA18306-01	42,614
RODES, NED D. ....	TEACHING TECHNIQUES FOR BREAST CANCER DETECTION .....	5R18 CA18306-02	42,220
RODES, NED D. ....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05618-10	48,539
SPRATT, JOHN S, JR. ....	SPECIALIZED MULTIDISCIPLINARY CANCER CENTER.....	3P01 CA08023-10S2	76,315
SPRATT, JOHN S, JR. ....	PROFILES OF SURGICAL FAILURES FOR CLINICAL TRIAL PLANS.....	5R26 CA17479-02	29,934
YOURTEE, DAVID M. ....	AFLATOXIN METABOLISM BY HUMAN LIVER.....	5R01 ES00640-02	39,222
ORGANIZATION TOTAL	9 782,684		
<b>MISSOURI CANCER PROGRAMS, INC.</b> <b>ZIP CODE 65201</b>			
YARBRO, JOHN W. ....	EXPLORATORY PLANNING FOR CANCER CENTER DEVELOPMENT.....	1P20 CA19348-01	57,020
YARBRO, JOHN W. ....	COMPREHENSIVE CANCER CENTER SUPPORT GRANT .....	1P30 CA19409-01	168,724
ORGANIZATION TOTAL	2 225,744		
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT COLUMBIA</b> <b>ZIP CODE 65201</b>			
ABDOU, NANCY L. ....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA19343-01	67,099
ADDINGER, HANS K. ....	CELL-MEDIATED IMMUNITY IN MAREK'S DISEASE .....	5R01 CA16350-02	55,793
AGRIS, PAUL F. ....	HUMAN BIOCHEMICAL GENETICS: TRANSFER RNA IN LEUKEMIA.....	5R01 CA16327-03	39,830
AGRIS, PAUL F. ....	TRANSFER RNA STRUCTURE DURING PROTEIN SYNTHESIS .....	1R01 GM23037-01	23,402
ANAST, CONSTANTINE S. ....	CALCITONIN AND PARATHYROID HORMONE IN CHILDREN .....	2R01 HD02756-10	79,616
ANDERSON, RALPH R. ....	RELAXIN ON MAMMARY GLAND GROWTH IN RODENTS.....	5R01 HD08798-02	11,617
ASPLUND, JOHN M. ....	METABOLIC STUDIES IN PARENTERALLY FED MODELS .....	5R01 AM16560-03	38,859
BARBERO, GIULIO J. ....	MUCUS ABNORMALITY IN CYSTIC FIBROSIS .....	1P50 HL19160-01	148,387
BARR, RONALD E. ....	OXYGEN CONSUMPTION AND DIFFUSION IN RABBIT CORNEA.....	1R01 EY01604-01	58,616
BARRETT, JAMES T. ....	DETECTION OF BACTERIOIDES ANTIGENS IN INFECTED TISSUES.....	5R01 AI12530-02	47,488
BARRETT, JAMES T. ....	IMMUNOBIOCHEMISTRY OF LOXOSCELES RECLUSI VENOM .....	5R01 ES00598-05	36,256

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSOURI—Continued</b>			
BRUBAKER, LEONARD H.	*LEUKOCYTE TURNOVER IN ACUTE LEUKEMIA AND LEUKOPENIAS	5R01 CA11929-06	44,879
BURNS, THOMAS W.	HUMAN ADIPOSE TISSUE: REGULATION OF FAT MOBILIZATION	5R01 AM11265-08	54,501
CAMPBELL, BENEDICT J.	METAL MEDIATION OF PITUITARY HORMONAL REGULATION	5R01 AM04660-14	23,613
CAMPBELL, BENEDICT J.	CHARACTERIZATION OF KIDNEY PEPTIDASES	5R01 AM08511-13	29,382
DAVIS, JAMES O.	HUMORAL FACTORS IN HEART FAILURE AND HYPERTENSION	5R01 HL10612-10	153,111
DAVIS, JAMES O.	HUMORAL FACTORS IN HEART FAILURE AND HYPERTENSION	5R01 HL10612-11	183,617
FORTE, LEONARD R.	MOLECULAR PHARMACOLOGY OF RENAL PLASMA MEMBRANES	5R01 AM14787-06	33,237
FORTE, LEONARD R.	MOLECULAR PHARMACOLOGY OF RENAL PLASMA MEMBRANES	5R01 AM14787-07	33,207
GOLDBERG, HERBERT S.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05387-15	160,151
GRIGGS, DOUGLAS M, JR	REGIONAL MYOCARDIAL BLOOD FLOW AND METABOLISM	2R01 HL11876-09	78,427
HARRIS, PATRICK D.	MICROCIRCULATORY CONTROL MECHANISMS AND HYPERTENSION	2R01 HL12614-07	54,267
HARRIS, PATRICK D.	SMALL VESSEL MECHANISMS DURING HEMORRHAGIC SHOCK	5R01 HL13207-06	55,678
HEIMBERG, MURRAY	REGULATORY MECHANISMS IN LIPID METABOLISM	5R01 AM18125-02	133,660
HEIMBERG, MURRAY	REGULATORY MECHANISMS IN LIPID METABOLISM	5R01 AM18125-03	137,321
HENRY, PATRICK H.	COOPERATIVE STUDY OF ACUTE LEUKEMIA	5R10 CA12046-06	73,623
HOOK, REUEL R, JR	IMMUNOLOGIC IMPAIRMENT IN PROTEIN-CALORIE DISEASE	5R01 HD07548-03	28,012
JACKSON, ROBERT L.	VASCULAR CHANGES IN DIABETES MELLITUS	5R01 HL13632-06	47,747
JACKSON, ROBERT L.	VASCULAR CHANGES IN DIABETES MELLITUS	5R01 HL13632-07	49,076
JOHNSON, JOSEPH A.	MECHANISMS IN THE PRODUCTION OF RENAL HYPERTENSION	5R01 HL17366-02	28,405
JOHNSON, JOSEPH A.	MECHANISMS IN THE PRODUCTION OF RENAL HYPERTENSION	5R01 HL17366-03	29,642
JONES, ALLAN W.	VASCULAR ION TRANSPORT AND HYPERTENSIVE MECHANISMS	5R01 HL15852-03	35,351
JONES, ALLAN W.	VASCULAR ION TRANSPORT AND HYPERTENSIVE MECHANISMS	5R01 HL15852-04	35,969
KAISER, EDWIN M.	NOVEL CARBANIONS OF METHYLATED HETEROAROMATICS	5R01 GM21500-02	30,667
KOIRTYOHANN, S R.	BIOLOGICAL TRACE METAL ATOMIC EMISSION SPECTROMETER	5R01 GM20795-02	26,266
LOBECK, CHARLES C, JR	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00287-10	375,741
LODWICK, GWILYM S.	COMPUTER ANALYSIS OF TUMOR ROENTGENOGRAMS	2R01 CA06263-15	151,257
LODWICK, GWILYM S.	DIAGNOSTIC CONTENT AND REDUNDANCY IN RADIANT IMAGES	5P01 GM17729-06	194,028
LODWICK, GWILYM S.	DIAGNOSTIC CONTENT AND REDUNDANCY IN RADIANT IMAGES	2P01 GM17729-07	198,779
MACQUARRIE, RONALD A.	STUDIES OF ALPHA-GLYCEROL PHOSPHATE DEHYDROGENASE	5R01 GM21938-02	23,088
MARTINEZ, J RICARDO	METABOLIC & SECRETORY INTERACTIONS IN EXOCRINE GLANDS	1R01 AM18150-01A1	49,597
MEYER, DALLAS K.	MYOCARDIAL ANTICADIAN METABOLIC RHYTHMS	5R01 HL16041-03	26,368
MIDDLETON, CHARLES C.	DIETARY ANTIOXIDANTS AND ATHEROSCLEROSIS	5R01 HL16707-03	21,640
MULLEN, HELEN B.	CELLULAR MECHANISMS REGULATING ANTIBODY PRODUCTION	5R01 AI12830-02	26,920
MULLEN, HELEN B.	CELLULAR AND GENETIC REGULATION OF AUTOIMMUNE DISEASE	1R01 AM19409-01	40,547
MUSACCHIA, X J.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07053-11	38,495
O'DELL, BOYD L.	TRACE ELEMENTS IN NUTRITION	5R01 HL11614-09	59,867
ORTWERTH, BERYL J.	ROLE OF TRNA IN THE CONTROL OF LENS PROTEIN SYNTHESIS	5R01 EY00786-05	47,482
SAUER, HERBERT I.	PANCREATIC CANCER MORTALITY: GEOGRAPHIC EPIDEMIOLOGY	1R26 CA19212-01	70,440
SCHUDER, JOHN C.	IN VIVO INDUCTIVE PROBE MEASUREMENTS OF OMEGA & SIGMA	1R01 GM22506-01	33,794
SCHUDER, JOHN C.	WAVEFORM DEPENDENCY IN DEFIBRILLATING 100 KG CALVES	5R01 HL18040-02	52,326
SHERMAN, LOUIS A.	ANALYSIS OF FLUORESCENCE MUTATIONS IN PHOTOSYNTHESIS	5R01 GM21827-02	39,062
SILVER, DONALD	EFFECT OF TRAUMA ON THE FIBRINOLYTIC MECHANISM	1R01 GM23041-01	29,393
SILVER, DONALD	SURGICAL VASCULAR DISORDERS	7R01 HL18815-01	139,899
SMITH, GEORGE P.	MOLECULAR GENETICS OF ANTIBODIES	1R01 GM22686-01	23,093
SMITH, GEORGE P.	MOLECULAR GENETICS OF ANTIBODIES	5R01 GM22686-02	39,636
SUN, ALBERT Y.	AGING AND MEMBRANE FUNCTION IN THE BRAIN	5R01 NS12752-02	42,642
SUN, GRACE Y.	FATTY ACID METABOLISM IN BRAIN SUBCELLULAR MEMBRANES	7R01 NS12960-01	24,029
SUN, GRACE Y.	FATTY ACID METABOLISM IN BRAIN SUBCELLULAR MEMBRANES	2R01 NS12960-02	52,649
TOWNSEND, JOHN F.	DIABETIC MICROANGIOPATHY IN MYSTROMYS ALBICAUDATUS	1R01 AM19008-01	33,180
WAGNER, JOSEPH E.	RESEARCH ANIMAL DIAGNOSTIC LABORATORY	5P40 RR00471-08	98,025
WANG, RICHARD J.	MITOSIS AND MITOTIC ARREST IN MAMMALIAN CELLS	5R01 GM21305-02	38,727
WHITE, ARNOLD A.	BIOCHEMICAL PHARMACOLOGY OF GUANYLATE CYCLASE IN LUNG	2R01 HL15002-04	35,332
WHITE, ARNOLD A.	BIOCHEMICAL PHARMACOLOGY OF GUANYLATE CYCLASE IN LUNG	5R01 HL15002-05	29,757
WOOD, RANDALL	TUMOR LIPIDS: METABOLISM AND STRUCTURAL STUDIES	3R01 CA12973-04S1	4,833
WOSLAF, WALTER D.	FACTORS AFFECTING THE ACTION OF ANTICOAGULANTS	5R01 HL15698-10	33,736
ZATZMAN, MARVIN L.	CARDIOVASCULAR AND RENAL FUNCTIONS OF MARMOTS	5R01 HL17847-02	38,508
ORGANIZATION TOTAL	67	4,279,642	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSOURI—Continued</b>			
<b>CREVE COEUR</b>			
<b>ST. JOHN'S MERCY MEDICAL CENTER      ZIP CODE 63141</b>			
MONAFO, WILLIAM W.....	ELECTROLYTE AND WATER FLUXES IN BURN SHOCK.....	1R01 GM22364-01	58,225
MONAFO, WILLIAM W.....	THERMAL AND WORK STRESS IN POST-BURN PATIENTS.....	1R01 GM22399-01	71,450
ORGANIZATION TOTAL	2      129,675		
<b>JEFFERSON CITY</b>			
<b>LINCOLN UNIVERSITY      ZIP CODE 65101</b>			
MILLER, HERMAN T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08041-05	110,120
ORGANIZATION TOTAL	1      110,120		
<b>KANSAS CITY</b>			
<b>CHILDREN'S MERCY HOSPITAL      ZIP CODE 64108</b>			
OLSON, LLOYD C.....	PERSISTENT INFLUENZA VIRUS INFECTIONS.....	1R01 AI14021-01	33,823
WENNER, HERBERT A.....	VARICELLA: EPIDEMIOLOGY AND PATHOGENESIS.....	5R01 AI10252-05	51,505
WENNER, HERBERT A.....	VARICELLA: EPIDEMIOLOGY AND PATHOGENESIS.....	5R01 AI10252-06	19,753
ORGANIZATION TOTAL	3      105,081		
<b>KANSAS CITY COLLEGE OF OSTEOPATHIC MEDICINE      ZIP CODE 64124</b>			
HALL, L RAYMOND.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17933-02	43,720
ORGANIZATION TOTAL	1      43,720		
<b>MIDWEST RESEARCH INSTITUTE      ZIP CODE 64110</b>			
COOK, MARY R.....	EFFECTS OF BIOFEEDBACK AND HYPNOSIS ON CANCER PAIN.....	3R18 CA17936-01S1	34,065
COOK, MARY R.....	STUDIES ON COGNITIVE CONTROL OF VASCULAR MECHANISMS.....	1R01 HL18698-01	56,216
CORBETT, MICHAEL D.....	THIAMINE MEDIATED FORMATIVE OF HYDROXAMIC ACIDS.....	3R01 CA18025-01S1	2,219
CORBETT, MICHAEL D.....	THIAMINE MEDIATED FORMATIVE OF HYDROXAMIC ACIDS.....	2R01 CA18025-02	3,408
CORBETT, MICHAEL D.....	APLASTIC ANEMIA AND CHLORAMPHENICOL METABOLITES.....	1R01 CA18971-01	20
MORRIS, F V.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05671-03	21,590
ORGANIZATION TOTAL	6      117,518		
<b>ST. LUKE'S HOSPITAL      ZIP CODE 64111</b>			
GOETZ, KENNETH L.....	ATRIAL RECEPTORS.....	5R01 HL13623-07	41,976
ORGANIZATION TOTAL	1      41,976		
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT KANSAS CITY      ZIP CODE 64110</b>			
COHN, DAVID V.....	METABOLIC PATHWAYS IN BONE.....	5R01 DE01523-15	55,544
DIAS, JERRY R.....	SYNTHESIS OF ANTILEUKEMIC ANALOGS OF QUASSIN.....	5R01 CA15824-03	35,755
LUBEN, RICHARD A.....	CHARACTERIZATION OF OSTEOCLAST ACTIVATING FACTORS.....	5R23 DE04211-02	13,337
NOBACK, RICHARDSON K.....	DEVELOPING CLINICAL INFORMATION NEEDS AND SYSTEM.....	2R01 LM01574-04	108,565
SCHANKER, LEWIS S.....	ABSORPTION OF NONVOLATILE COMPOUNDS FROM THE LUNG.....	1R01 HL18028-01A1	71,688
ORGANIZATION TOTAL	5      284,889		
<b>KIRKSVILLE</b>			
<b>KIRKSVILLE COLLEGE OF OSTEOPATHIC MEDICINE      ZIP CODE 63501</b>			
BOND, GUY H.....	CHARACTERIZATION OF (MG O CA)-ATPASE IN RED CELLS.....	7R01 AM19162-01	19,988
BOND, GUY H.....	CHARACTERIZATION OF (MG O CA)-ATPASE IN RED CELLS.....	5R01 AM19162-02	21,494
CENEDELLA, RICHARD J.....	INVESTIGATIONS OF LIPOLYTIC ACTIVITIES IN TUMOR CELLS.....	7R01 CA20885-01	26,230
PATTERSON, MICHAEL M.....	STUDIES OF SPINAL RESPONSE PLASTICITY.....	5R01 NS10647-02	15,756
PATTERSON, MICHAEL M.....	STUDIES OF SPINAL RESPONSE PLASTICITY.....	5R01 NS10647-03	16,111
WILLINGHAM, ALLAN K.....	THE ROLE OF VITAMIN K IN PROTHROMBIN BIOSYNTHESIS.....	7R01 HL20577-01	43,979
ORGANIZATION TOTAL	6      143,558		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSOURI—Continued</b>			
<b>NORMANDY</b>			
UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT ST. LOUIS		ZIP CODE 63121	
HEBERLEIN, GARY T.....	GENETICS AND BIOCHEMISTRY OF TUMOR INDUCTION.....	5R01 CA14516-04	20,298
WILKENS, LON A.....	SYNAPTIC INTEGRATION IN A BIMODAL SENSORY INTERNEURON.....	7R01 NS12971-01	2,750
WILKENS, LON A.....	SYNAPTIC INTEGRATION IN A BIMODAL SENSORY INTERNEURON.....	5R01 NS12971-02	12,331
ORGANIZATION TOTAL	3 35,379		
<b>SAINT LOUIS</b>			
CENTRAL INSTITUTE FOR THE DEAF		ZIP CODE 63110	
HIRSH, IRA J.....	AUDITORY COMMUNICATION AND ITS DISORDERS.....	5P50 NS03856-14	760,474
ORGANIZATION TOTAL	1 760,474		
JEWISH HOSPITAL OF ST. LOUIS		ZIP CODE 63110	
AVIOLI, LOUIS V.....	BONE METABOLISM IN CHRONIC DISORDERS.....	5R01 AM11674-10	90,509
BIRGE, STANLEY J.....	MECHANISMS OF CALCIUM TRANSPORT.....	5R01 AM14571-06	38,401
COVEY, THOMAS H, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05491-14	47,689
GRAFF, RALPH J.....	IMMUNITY AND TOLERANCE TO TRANSPLANTATION ANTIGENS.....	5R01 AI07437-10	50,585
HADDAD, JOHN G, JR.....	QUANTITATIVE STUDIES OF VITAMIN D METABOLISM.....	5R01 AM14570-06	51,767
HADDAD, JOHN G, JR.....	QUANTITATIVE STUDIES OF VITAMIN D METABOLISM.....	5R01 AM14570-07	58,439
HAHN, THEODORE J.....	ANTICONSULSANT, PSYCHOACTIVE DRUG-INDUCED OSTEOMALACIA.....	5R01 NS10262-05	33,358
LITTLE, J RUSSELL, JR.....	NEOPLASTIC AND NORMAL CELL THYMUS-LEUKEMIA ANTIGENS.....	1R01 CA20168-01	68,461
LUBOWITZ, HERBERT.....	TRANSPORT AND METABOLISM IN RED BLOOD CELLS.....	5R01 HL17778-02	44,505
PECK, WILLIAM A.....	HORMONAL REGULATION OF BONE CELL METABOLISM.....	7R01 AM19855-01	89,390
PIERCE, CARL W.....	CELL INTERACTIONS IN IMMUNE RESPONSES IN VITRO.....	7R01 AI13915-01	55,737
PRESANT, CARY A.....	STRUCTURE OF HUMAN PLASMA MEMBRANE GLYCOPROTEINS.....	5R01 CA15621-03	47,611
ORGANIZATION TOTAL	12 676,452		
ST. LOUIS UNIVERSITY		ZIP CODE 63103	
BELLONE, CLIFFORD J.....	NATURE OF ANTIGEN RECOGNITION ON T-CELLS.....	1R01 AI13115-01	61,922
BROUN, GORONWY O, JR.....	ANEMIA OF VITAMIN E DEFICIENCY.....	5R01 AM17428-03	60,995
BROUN, GORONWY O, JR.....	SOUTHEASTERN CANCER STUDY GROUP.....	5R10 CA17214-02	40,191
CHALLONER, DAVID R.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05388-15	153,248
COCKRELL, RONALD S.....	ION TRANSPORT AND METABOLIC REGULATION IN NEOPLASMS.....	5R01 CA11766-06	45,355
COSCIA, CARMINE J.....	FEEDBACK INHIBITION OF INDOLE ALKALOID BIOSYNTHESIS.....	3R01 GM19786-03S1	9,523
COSCIA, CARMINE J.....	ABERRANT L-DOPA METABOLISM.....	5R01 NS12342-02	56,840
DUS, KARL M.....	COMPARATIVE STRUCTURAL STUDIES OF P-450 HEMEPROTEINS.....	2R01 GM21726-02A1	75,061
ELICEIRI, GEORGE L.....	RIBOSOMES OF HYBRID CELLS AND TUMOR VIRUS EFFECTS.....	5R01 GM19835-04	58,572
ELICEIRI, GEORGE L.....	RIBOSOMES OF HYBRID CELLS AND TUMOR VIRUS EFFECTS.....	5R01 GM19835-05	68,393
ELICEIRI, GEORGE L.....	RNA METABOLISM IN NORMAL AND MALIGNANT GROWTH.....	1R01 GM22463-01	39,680
ELLIOTT, WILLIAM H.....	ROLE OF BILE ACIDS IN ETIOLOGY OF LARGE BOWEL CANCER.....	5R26 CA16375-02	63,769
ELLIOTT, WILLIAM H.....	ROLE OF BILE ACIDS IN ETIOLOGY OF LARGE BOWEL CANCER.....	5R26 CA16375-03	62,631
ELLIOTT, WILLIAM H.....	METABOLISM OF NEUTRAL STEROLS.....	2R01 HL07878-14	114,939
FITCH, COY D.....	METABOLIC ADAPTATION OF MUSCLE: THE NEED FOR CREATINE.....	5R01 AM16623-03	39,528
GOLD, ALVIN H.....	GLYCOGEN SYNTHETASE IN DEVELOPING LIVER.....	5R01 HD07788-02	32,027
GRANDGENETT, DUANE P.....	AVIAN RNA TUMOR VIRUS DNA SYNTHESIS AND ITS REGULATION.....	2R01 CA16312-03	51,689
GREEN, MAURICE.....	BIOCHEMISTRY OF ANIMAL VIRUS MULTIPLICATION.....	2R01 AI01725-19	140,066
GREEN, MAURICE.....	REPLICATION OF RNA TUMOR VIRUSES.....	1R01 CA19996-01	130,608
GREEN, MICHAEL.....	CELL-FREE SYNTHESIS OF PLASMACYTOMA IMMUNOGLOBULINS.....	1R01 CA20821-01	61,657
GREGORY, JOHN G.....	OXALATE STONE DISEASE AFTER SMALL BOWEL BYPASS.....	5R01 AM18589-02	56,446
HERTELENDY, FRANK.....	ROLE OF PROSTAGLANDINS IN AVIAN REPRODUCTION.....	1R01 HD09763-01	51,458
HIRSCHBERG, CARLOS B.....	GLYCOLIPIDS: ROLE IN NORMAL AND TRANSFORMED CELLS.....	5R01 CA17015-02	42,146
HIRSCHBERG, CARLOS B.....	METABOLISM AND FUNCTION OF SPHINGOLIPIDS.....	1R01 NS12827-01	45,065
HUNSLEY, JAMES R.....	REGULATION OF PROTEIN SYNTHESIS IN DEVELOPMENT.....	1R01 GM21961-01A1	61,475
KAMINSKI, DONALD L.....	BIOASSAY OF HEPATIC HORMONAL RECEPTOR SITES.....	5R01 AM17084-03	48,726
KAMINSKI, DONALD L.....	CELL-MEMBRANE MECHANISMS CONTROLLING BILE FLOW.....	5R01 AM18779-02	45,615
KAMINSKI, DONALD L.....	HEPATIC CHANGES IN THE OBESE WITH INTESTINAL BYPASS.....	1R01 AM19348-01	64,234
LEVINE, EDITH A.....	EVALUATION OF ALVEOLAR MACROPHAGE ELASTOLYTIC ACTIVITY.....	1R23 HL19614-01	44,845



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSOURI—Continued</b>			
LONGMORE, WILLIAM J.....	REGULATION OF LIPID METABOLISM IN THE LUNG.....	5R01 HL13405-06	44,683
LONGMORE, WILLIAM J.....	REGULATION OF LIPID METABOLISM IN THE LUNG.....	2R01 HL13405-07	77,256
LOZERON, HOMER A.....	POST-TRANSCRIPTIONAL REGULATION IN BIOLOGICAL SYSTEMS.....	2R01 GM20639-04	63,966
MARRS, BARRY L.....	THE REGULATION OF BACTERIAL MEMBRANE FORMATION.....	2R01 GM20173-04	68,073
MARTONOSI, ANTHONY N.....	STUDIES ON SARCOPLASMIC RETICULUM AND MYOSIN.....	5R01 AM18117-09	107,996
MUNNS, THEODORE W.....	CHARACTERIZATION OF TRNA IN ONCOGENIC SYSTEMS.....	5R01 CA17715-02	51,806
OLSON, ROBERT E.....	MODE OF ACTION OF THE FAT-SOLUBLE VITAMINS.....	5R01 AM09992-11	104,751
OLSON, ROBERT E.....	MODE OF ACTION OF THE FAT-SOLUBLE VITAMINS.....	5R01 AM09992-12	111,996
OLSON, ROBERT E.....	BIOSYNTHESIS OF UBIQUINONE (COENZYME Q).....	5R01 AM10004-12	49,963
OLSON, ROBERT E.....	ETIOLOGY OF NUTRITIONAL ANEMIAS IN THAILAND.....	5R22 AM11044-10	195,317
OLSON, ROBERT E.....	REGULATION OF PROTHROMBIN SYNTHESIS IN CULTURED CELLS.....	3R01 HL15619-03S1	25,147
POGELL, BURTON M.....	CONTROL AND REGULATION OF CARBOHYDRATE BIOSYNTHESIS.....	5R01 CA12080-06	79,491
RUH, MARY F.....	ECDYSONE AND JUVENILE HORMONE ACTION.....	5R01 HD08186-02	41,653
SCHULZE, IRENE T.....	STRUCTURE OF MYXOVIRUSES AND ONCORNAVIRUSES.....	5R01 AI10097-06	61,514
SEARCEY, MARYLEE T.....	COUMARIN-VITAMIN K BINDING AND PROTHROMBIN SYNTHESIS.....	5R01 HL17469-02	47,632
SEARCEY, MARYLEE T.....	COUMARIN-VITAMIN K BINDING AND PROTHROMBIN SYNTHESIS.....	5R01 HL17469-03	49,916
WILLMAN, VALLEE L.....	STUDIES IN SURGICAL CARDIOLOGY.....	5P01 HL06312-15	480,880
ORGANIZATION TOTAL	46	3,488,744	
<b>UNIVERSITY CITY</b>			
<b>WASHINGTON UNIVERSITY ZIP CODE 63130</b>			
ALLEN, ROBERT H.....	THE STRUCTURE AND FUNCTION OF B12-BINDING PROTEINS.....	2R01 AM16668-04	94,198
ALPERS, DAVID H.....	INTESTINAL PROTEIN METABOLISM AND FUNCTION.....	5R01 AM14038-07	94,789
APIRION, DAVID.....	THE FATE OF RNA IN MALIGNANT AND NORMAL CELLS.....	5R01 CA15389-03	61,856
APIRION, DAVID.....	GENETICS OF RIBONUCLEASES AND RNA DEGRADATION.....	5R01 GM19821-03	43,756
ARTHUR, R MARTIN.....	PREPROCESSOR SYSTEM FOR RADIOGRAMS.....	5R01 HL18144-02	42,530
BALLINGER, WALTER F.....	SURGICAL TRANSPLANTATION OF ISLETS OF LANGERHANS.....	5R01 AM17188-03	62,458
BALLINGER, WALTER F.....	ISLET TRANSPLANTATION IN THE TREATMENT OF DIABETES.....	5P01 AM18235-02	154,323
BANASZAK, LEONARD J.....	STRUCTURAL STUDIES ON DEHYDROGENASES AND LIPOPROTEINS.....	5R01 GM13925-11	75,596
BANASZAK, LEONARD J.....	X-RAY DIFFRACTION STUDIES OF E. COLI MEMBRANES.....	1R01 GM22595-01	24,000
BECKER, BERNARD.....	TRANSPORT PROCESSES AND THE EYE.....	5R01 EY00004-22	174,959
BECKER, BERNARD.....	GLAUCOMA CLINICAL RESEARCH CENTER.....	5P50 EY00336-10	447,738
BELL, C ELLIOTT, JR.....	ANTIGENS AND IMMUNITY IN HUMAN BRONCHOGENIC CARCINOMA.....	5R01 CA15556-03	59,494
BIER, DENNIS M.....	STABLE ISOTOPE STUDIES OF FUEL TRANSPORT IN CHILDREN.....	7R01 HD10667-01	64,310
BLAUSTEIN, MORDECAI P.....	THE PHYSIOLOGY OF PRESYNAPTIC NERVE TERMINALS.....	5R01 NS08442-08	69,793
BOHNE, BARBARA A.....	RESPONSE OF INNER EAR TO INJURY.....	5R01 NS01791-18	61,620
BOHNE, BARBARA A.....	RESPONSE OF INNER EAR TO INJURY.....	5R01 NS01791-19	64,931
BOIME, IRVING.....	ISOLATION OF PROINSULIN MRNA.....	2R01 AM16865-04	26,611
BRADSHAW, RALPH A.....	STUDIES ON STRUCTURE AND FUNCTION OF DEHYDROGENASES.....	2R01 AM13362-08	83,054
BRADSHAW, RALPH A.....	STRUCTURE AND FUNCTION OF NERVE GROWTH FACTOR.....	5R01 NS10229-05	60,768
BROWN, DAVID H.....	ENZYMATIC STUDY OF MAMMALIAN GLYCOGEN METABOLISM.....	5R01 GM04761-20	87,666
BROWN, DAVID H.....	ENZYMATIC STUDY OF MAMMALIAN GLYCOGEN METABOLISM.....	5R01 GM04761-21	96,053
BROWN, ELMER B.....	MAMMALIAN IRON METABOLISM.....	5R01 AM16577-04	76,334
BROWN, ELMER B.....	CONFERENCE ON PROTEINS OF IRON STORAGE AND TRANSPORT.....	1R13 AM19446-01	20,000
BUNGE, RICHARD P.....	CYTOLOGICAL STUDIES OF DEVELOPING AND MATURE NEURONS.....	2R01 NS09923-06	81,746
BUNGE, RICHARD P.....	FUNCTIONAL STUDIES OF SYNAPSES IN TISSUE CULTURE.....	5R01 NS11888-02	49,421
BUNGE, RICHARD P.....	FUNCTIONAL STUDIES OF SYNAPSES IN TISSUE CULTURE.....	5R01 NS11888-03	45,010
BURTON, HAROLD.....	TEMPERATURE AND PAIN IN THE CENTRAL NERVOUS SYSTEM.....	5R01 NS09809-06	39,672
BUTCHER, HARVEY R, JR.....	PRIMARY BREAST CANCER THERAPY GROUP.....	5R10 CA12030-05	25,760
CHAPLIN, HUGH, JR.....	SYMPTOMATIC HEMOLYTIC ANEMIA IN MALIGNANT DISEASES.....	5R01 CA02918-20	56,744
CHAPLIN, HUGH, JR.....	SYMPTOMATIC HEMOLYTIC ANEMIA IN MALIGNANT DISEASES.....	5R01 CA02918-21	64,655
CHASE, LEWIS R.....	PARATHYROID HORMONE AND 3'5'-AMP IN CALCIUM METABOLISM.....	5R01 AM16926-04	43,510
CHILSON, OSCAR P.....	PURINE METABOLISM: ERYTHROCYTES OF DEVELOPING CHICKS.....	5R01 AM16741-03	35,010
CLARK, RICHARD E.....	ADVANCED CARDIAC VALVULAR AND VASCULAR PROSTHESES.....	5R01 HL13803-06	222,062
COHEN, ADOLPH I.....	CYTOLOGY AND PHYSIOLOGY OF THE RETINA.....	5R01 EY00258-13	92,642
COHEN, ADOLPH I.....	CYTOLOGY AND PHYSIOLOGY OF THE RETINA.....	5R01 EY00258-14	96,871
COWAN, W MAXWELL.....	QUANTITATIVE ANATOMICAL STUDIES OF VISUAL DEPRIVATION.....	5R01 EY01255-02	90,990
COWAN, W MAXWELL.....	STUDIES OF NEURONAL SPECIFICITY IN THE HIPPOCAMPUS.....	2R01 NS10943-04	99,777

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSOURI—Continued</b>			
COX, JEROME R. JR.	A RESOURCE FOR BIOMEDICAL COMPUTING .....	5P41 RR00396-09	2,216,433
DANFORTH, WILLIAM H.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	5S07 RR07054-11	91,808
DAUGHADAY, WILLIAM H.	HORMONAL CONTROL OF CHONDROITIN SULFATE SYNTHESIS .....	5R01 AM01526-20	65,261
DAUGHADAY, WILLIAM H.	THE MEASUREMENT OF PROTEIN HORMONES IN PLASMA .....	5R01 AM05105-15	82,341
DAUGHADAY, WILLIAM H.	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS .....	2R01 AM06737-14	18,319
DAUGHADAY, WILLIAM H.	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS .....	5R01 AM06737-15	3,190
DAUGHADAY, WILLIAM H.	DIABETES AND ENDOCRINOLOGY CENTER .....	5P30 AM17904-02	669,086
DAVID, C. S.	GENETICS AND SEROLOGY OF H-2(Ir)-LINKED IA ANTIGENS .....	1R01 AI12715-01	86,620
DAVIE, JOSEPH M.	ROLE OF T CELLS IN B CELL DIFFERENTIATION .....	5R01 AI11635-03	69,257
DAVIE, JOSEPH M.	BINDING-SITE MUTANTS OF MOUSE PLASMACYTOMAS .....	5R01 CA16032-02	53,735
DAW, NIGEL W.	NEURAL MECHANISMS OF VISION .....	2R01 EY00053-07	50,275
DE WEER, PAUL J.	MODES OF OPERATION OF THE SODIUM PUMP .....	5R01 NS11223-04	43,881
DE WEER, PAUL J.	MODES OF OPERATION OF THE SODIUM PUMP .....	2R01 NS11223-05	91,868
DEVIVO, DARRYL C.	SEIZURES, KETOSIS, AND CEREBRAL METABOLISM .....	2R01 NS09808-04	77,905
DIEZTLER, DAVID N.	STUDIES OF COORDINATE ALLOSTERIC REGULATION IN VIVO .....	1R01 AM18670-01	66,733
EISEN, ARTHUR Z.	ROLE OF COLLAGENASES IN COLLAGEN REMODELING .....	5R01 AM12129-09	143,935
ENDERS, ALLEN C.	MECHANISMS OF IMPLANTATION OF THE BLASTOCYST .....	5R01 HD04962-06	13,942
ETHEREDGE, EDWARD E.	PRESENSITIZATION AND HUMAN TRANSPLANTATION .....	1R01 AM19110-01	53,175
FAIR, WILLIAM R.	INVESTIGATION OF THE PROSTATIC ANTIBACTERIAL FACTOR .....	7R01 AI13463-01	74,796
FEIGIN, RALPH D.	PROSPECTIVE EVALUATION OF CHILDHOOD MENINGITIS .....	5R01 NS12284-02	60,436
FERRENDELLI, JAMES A.	REGIONAL CNS CYCLIC NUCLEOTIDE BIOCHEMISTRY .....	5R01 NS09667-05	29,164
FERRENDELLI, JAMES A.	REGIONAL CNS CYCLIC NUCLEOTIDE BIOCHEMISTRY .....	2R01 NS09667-06	63,985
FERRENDELLI, JAMES A.	NEUROCHEMISTRY OF METABOLIC DISORDERS OF THE CNS .....	1R01 NS13104-01	34,732
FINGER, STANLEY	SERIAL SURGERY AND FACTORS AFFECTING TACTILE RECOVERY .....	2R01 NS11002-02	35,787
FLEISCHMAN, JULIAN B.	MOLECULAR GENETICS OF ANTIBODY FORMATION .....	9R01 CA20094-10	61,457
FRIEDEN, CARL	METABOLIC REGULATION AND INTERACTING ENZYME SYSTEMS .....	5R01 AM13332-08	81,196
GARDNER, RICHARD A.	FLUID SHEAR OR MAGNETIC ALIGNMENT OF BLOOD COMPONENTS .....	5R01 HL18321-02	38,976
GELB, LAWRENCE D.	THE MOLECULAR BIOLOGY OF THE VARICELLA-ZOSTER VIRUS .....	1R01 AI13219-01	41,024
GELLER, DAVID M.	MECHANISM AND CONTROL OF SERUM ALBUMIN BIOSYNTHESIS .....	5R01 AM16226-03	36,155
GLASER, LUIS.	REGULATION AND MECHANISM OF CELL SURFACE SYNTHESIS .....	5R01 GM18405-05	101,990
GOLDRING, SIDNEY	COORDINATED BASIC AND CLINICAL BRAIN RESEARCH PROGRAM .....	5P50 NS04513-13	280,276
GOLDRING, SIDNEY	BIOELECTRIC STUDIES OF CEREBRAL CORTEX .....	5R01 NS06947-10	54,334
GOLDRING, SIDNEY	BIOELECTRIC STUDIES OF CEREBRAL CORTEX .....	2R01 NS06947-11	60,435
GOTTLIEB, DAVID I.	STUDIES ON NEURONAL RECOGNITION .....	1R01 NS12867-01	56,937
GREIDER, MARIE H.	CELLULAR LOCALIZATION OF GASTRIN .....	5R01 AM13205-09	78,266
GURGO, SANDRA B.	OPTIMIZATION OF MYELOMA-SPECIFIC IMMUNOTHERAPY .....	1R01 CA18592-01	55,424
HAHN, BEVRA H.	SLE AND DRUG INDUCED LE: PATHOGENESIS AND THERAPY .....	5R01 AM17469-03	66,679
HAMBURGER, VIKTOR	PROBLEMS OF NEUROGENESIS AND OF DEVELOPMENT OF BEHAVIOR .....	5R01 NS05721-12	41,937
HARTMAN, BOYD K.	NORADRENERGIC SYSTEM IN BRAIN: ANATOMY AND FUNCTION .....	5R01 NS12311-02	62,027
HARTROFT, PHYLLIS M.	ENVIRONMENTAL QUALITY: EFFECTS ON DISEASE PROCESSES .....	5P01 ES00734-05	253,373
HENRY, PHILIP D.	THE CONTRACTILE APPARATUS IN CARDIAC HYPERTROPHY .....	5R01 HL16853-03	40,455
HILLMAN, LAURA S.	CLINICAL CORRELATIONS TO VITAMIN D STATUS IN INFANTS .....	1R01 HD09998-01	62,490
HILLMAN, RICHARD E.	MEMBRANE TRANSPORT OF AMINO ACIDS .....	5R01 AM15531-05	51,436
HILLMAN, RICHARD E.	MEMBRANE TRANSPORT OF AMINO ACIDS .....	5R01 AM15531-06	70,983
HOLLOSZY, JOHN O.	EXERCISE-INDUCED BIOCHEMICAL AND ANATOMIC ADAPTATIONS .....	5R01 AG00425-12	89,518
HOLLOSZY, JOHN O.	CARBOHYDRATE AND FAT METABOLISM DURING EXERCISE .....	1R01 AM18986-01	52,500
HOLMES, WILLIAM F.	A RESOURCE FOR BIOMEDICAL MASS SPECTROMETRY .....	5P41 RR00954-02	241,243
HOLTZER, ALFRED M.	PROPERTIES OF ALPHA-HELIX-FORMING SUBSTANCES .....	5R01 GM20064-04	29,254
HUNT, CARLTON C.	VERTEBRATE MUSCLE RECEPTORS .....	5R01 NS07907-09	94,531
HUNTER, F. EDMUND, JR.	CHARACTERIZATION AND FUNCTION OF A NEW GSH-PEROXIDASE .....	1R01 GM22587-01	45,328
JACKSON, CRAIG M.	IN VITRO REGULATION OF PROTHROMBIN ACTIVATION .....	2R01 HL12820-07	74,605
JARETT, LEONARD	HORMONAL REGULATION OF FAT CELL METABOLISM .....	5R01 AM11892-09	70,674
JEFFREY, JOHN J.	HORMONAL REGULATION OF AN ENZYME SYSTEM IN THE UTERUS .....	5R01 HD05291-05	55,351
JOHNSON, EUGENE M. JR.	A NEW APPROACH TO DRUG INDUCED SYMPATHECTOMY .....	7R01 HL20604-01	24,338
JONES, EDWARD G.	SYNAPTIC RELATIONS IN SENSORY SYSTEMS .....	2R01 NS10526-04	71,526
JONES, EDWARD G.	SYNAPTIC RELATIONS IN SENSORY SYSTEMS .....	5R01 NS10526-05	58,330
KASS, MICHAEL A.	CYCLIC NUCLEOTIDE PHOSPHODIESTERASES AND PROSTAGLANDIN .....	5R01 EY01333-02	63,338
KENNEL, DAVID E.	MESSAGE RNA METABOLISM IN BACTERIA .....	1R01 AI13492-01	61,255
KING, BARRY F.	FUNCTIONAL CYTOLOGY OF THE PLACENTA AND FETAL MEMBRANES .....	5R01 HD06734-05	32,086
KING, M. KENTON	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05389-15	261,305

**Table 2.— NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSOURI—Continued</b>			
KINSKY, STEPHEN C.....	EFFECT OF ANTIBODY-COMPLEMENT ON ARTIFICIAL MEMBRANES.....	5R01 AI09319-07	70,783
KINSKY, STEPHEN C.....	IMMUNOGENICITY OF LIPOSOMES.....	1R01 AI13414-01	102,590
KIPNIS, DAVID M.....	TRANSPORT PROCESSES IN MAMMALIAN CELLS.....	5R01 AM01921-19	148,360
KIPNIS, DAVID M.....	TRANSPORT PROCESSES IN MAMMALIAN CELLS.....	5R01 AM01921-20	156,217
KIPNIS, DAVID M.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00036-16	1,503,646
KLahr, SAULO.....	RENAL DISEASE.....	5P01 AM09976-11	313,641
KLahr, SAULO.....	RENAL DISEASE.....	5P01 AM09976-12	364,135
KORNFELD, STUART A.....	THE STRUCTURE AND BIOLOGIC FUNCTION OF GLYCOPROTEINS.....	5R01 CA08759-10	134,741
KORNFELD, STUART A.....	THE STRUCTURE AND BIOLOGIC FUNCTION OF GLYCOPROTEINS.....	5R01 CA08759-11	195,362
LACY, PAUL E.....	ELECTRON MICROSCOPY OF ISLET CELLS.....	5R01 AM01226-20	62,714
LACY, PAUL E.....	MICROENZYMATIC STUDIES OF ISLETS OF LANGERHANS.....	5R01 AM03373-17	44,585
LACY, PAUL E.....	MICROENZYMATIC STUDIES OF ISLETS OF LANGERHANS.....	5R01 AM03373-18	40,512
LACY, PAUL E.....	STUDY OF SECRETION AND BIOSYNTHESIS OF INSULIN.....	5R01 AM06181-15	103,755
LANDAU, WILLIAM M.....	AN INTERDISCIPLINARY STROKE PROGRAM.....	5P50 NS06833-10	365,904
LICHTENSTEIN, JACK R.....	HERITABLE DISEASES OF COLLAGEN METABOLISM.....	5R01 AM18515-02	72,085
LIN, HSUI-SAN.....	PROLIFERATION & DIFFERENTIATION OF ALVEOLAR MACROPHAGES.....	1R01 HL19746-01	88,387
LOEB, VIRGIL JR.....	COOPERATIVE STUDY OF CANCER.....	5R10 CA03376-20	71,300
LOEWY, ARTHUR D.....	CENT. NERVOUS SYSTEM; DEGENERATIVE/REGENERATIVE CHANGES.....	5R01 NS12751-02	54,465
LOWRY, OLIVER H.....	QUANTITATIVE HISTOCHEMISTRY OF DEVELOPING ORGANS.....	5R01 HD03891-08	90,858
LOWRY, OLIVER H.....	METABOLIC CONTROL IN PREIMPLANTATION MOUSE EMBRYOS.....	5R01 HD08922-02	25,914
LOWRY, OLIVER H.....	METABOLIC CONTROL IN PREIMPLANTATION MOUSE EMBRYOS.....	2R01 HD08922-03	26,660
LOWRY, OLIVER H.....	METABOLISM OF CELLS AND PARTS OF CELLS IN NERVOUS TISSUE.....	5R01 NS08862-07	52,508
LYNCH, RICHARD G.....	MECHANISMS OF IMMUNOSUPPRESSION OF MURINE MYELOMA.....	5R01 CA15306-03	64,268
LYNCH, RICHARD G.....	LOCALIZATION OF MYELOMA CELL SURFACE IMMUNOGLOBULIN.....	5R01 CA17114-02	74,902
MAJERUS, PHILIP W.....	SPECIALIZED CENTER OF RESEARCH IN THROMBOSIS.....	2P50 HL14147-06	554,557
MAJERUS, PHILIP W.....	REGULATION OF METABOLISM IN FIBROBLASTS AND PLATELETS.....	5R01 HL16634-11	136,781
MARSHALL, GARLAND R.....	HYPERTENSION-CHEMISTRY AND BIOPHYSICS OF ANGIOTENSIN.....	5R01 HL14509-05	80,298
MARSHALL, GARLAND R.....	PHARMACOLOGY OF KININS IN CARDIOVASCULAR DISEASE.....	1R01 HL19374-01	96,562
MATHEWS, F SCOTT.....	STRUCTURAL STUDIES OF CYTOCHROME B562.....	2R01 GM20530-04	123,585
MATSCHINSKY, FRANZ M.....	METABOLISM OF ISLETS OF LANGERHANS AND HORMONE RELEASE.....	2R01 AM10591-11	82,090
MATSCHINSKY, FRANZ M.....	STUDIES WITH PROSTAGLANDIN DEHYDROGENASE.....	5R01 GM20758-02	24,206
MATSCHINSKY, FRANZ M.....	BIOCHEMISTRY OF PROMINENT AUDITORY STRUCTURES.....	2R01 NS08000-09	65,205
MC DOUGAL, DAVID B, JR.....	THE ROLE OF THIAMINE IN CNS FUNCTION AND METABOLISM.....	5R01 NS06800-09	47,822
MC DOUGAL, DAVID B, JR.....	METABOLISM AND FUNCTION IN PERIPHERAL NERVE.....	5R01 NS11941-02	36,408
MC DOUGAL, DAVID B, JR.....	METABOLISM AND FUNCTION IN PERIPHERAL NERVE.....	5R01 NS11941-03	37,797
MC KEEL, DANIEL W, JR.....	ADENOHYPOPHYSIAL HORMONE STORAGE AND SECRETION.....	1R01 AM18698-01	30,564
MEDOFF, GERALD.....	TREATMENT OF FUNGAL INFECTIONS.....	5R01 AI10622-05	84,032
MEDOFF, GERALD.....	CURING OF LEUKEMIC MICE WITH AMPHOTERICIN B AND BCNU.....	5P01 CA15665-02	228,570
MENTON, DAVID N.....	STRUCTURE AND BARRIER FUNCTION OF STRATUM CORNEUM.....	5R01 AM11908-08	43,765
MICHAELIDES, MARIA C.....	IMMUNE STATUS OF THE LDV-INFECTED MOUSE.....	5R01 AI12243-02	69,601
MILLER, JAMES G.....	DETECTION OF MYOCARDIAL INJURY WITH ULTRASOUND.....	1R01 HL19537-01	61,168
MOLNAR, CHARLES E.....	PERIPHERAL AUDITORY MECHANISMS.....	2R01 NS07498-09	96,609
MOLNAR, STEPHEN.....	EXPERIMENTAL ANALYSIS OF THE MASTICATORY FORCE SYSTEM.....	5R01 DE04029-02	29,611
MOOG, FLORENCE.....	FUNCTIONAL DIFFERENTIATION OF THE SMALL INTESTINE.....	5R01 HD03490-22	66,498
MOOG, FLORENCE.....	FUNCTIONAL DIFFERENTIATION OF THE SMALL INTESTINE.....	5R01 HD03490-23	74,100
MOORE, BLAINE W.....	FRACTIONATION OF BRAIN PROTEINS.....	2R01 NS05270-13	85,422
MOSES, ROBERT A.....	FACTORS AFFECTING INTRAOCULAR PRESSURE.....	5R01 EY00256-13	190,528
NEEDELMAN, PHILIP.....	ORGANIC NITRATES & VASODILATORS: MECHANISM & TOLERANCE.....	5R01 HL11771-08	53,657
NEEDELMAN, PHILIP.....	HYPERTENSION-BIOCHEMICAL PHARMACOLOGY OF ANGIOTENSIN.....	5R01 HL14397-05	69,299
NELSON, JAMES S.....	PATHOGENESIS OF NUTRITIONAL BRAIN INJURY.....	2R01 NS11277-02	54,935
OGURA, JOSEPH H.....	NATIONAL HEAD AND NECK CANCER PROJECT.....	3R26 CA16436-01S1	7,755
OGURA, JOSEPH H.....	PHYSIOLOGY OF THE LARYNX ANALOG.....	5R01 NS06200-10	64,243
OGURA, JOSEPH H.....	CORE PROGRAM PROJECT IN COMMUNICATIVE DISORDERS.....	5P01 NS11417-03	156,250
OLIVER, G CHARLES.....	PREDICTION AND PREVENTION OF SUDDEN CARDIAC DEATH.....	5R01 HL18808-02	408,950
OLNEY, JOHN W.....	CNS ULTRASTRUCTURE: DISEASE, DRUGS AND DEVELOPMENT.....	5R01 NS09156-06	63,805
OLNEY, JOHN W.....	CNS ULTRASTRUCTURE: DISEASE, DRUGS AND DEVELOPMENT.....	2R01 NS09156-07	67,552
PAGLIARA, ANTHONY S.....	MECHANISMS CONTROLLING GLUCAGON SECRETION.....	5R01 AM17810-02	33,975
PAGLIARA, ANTHONY S.....	MECHANISMS CONTROLLING GLUCAGON SECRETION.....	5R01 AM17810-03	35,671
PAGLIARA, ANTHONY S.....	ETIOLOGY OF HYPOGLYCEMIA IN INFANTS AND CHILDREN.....	5R01 HD06355-05	44,492
PARKER, CHARLES W.....	ASTHMA CLINICAL CENTER.....	2P50 AI10405-06	140,500



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSOURI—Continued</b>			
PARKER, CHARLES W.....	CYCLIC NUCLEOTIDES IN IMMUNITY.....	5P01 AI12450-03	185,437
PARKER, CHARLES W.....	CYTOTOXIC ANTITUMOR ANTIBODIES.....	5R01 CA12626-05	102,894
PEARLMAN, ALAN L.....	FUNCTIONAL ORGANIZATION OF THE VISUAL SYSTEM.....	5R01 EY00621-05	32,107
PEREZ, CARLOS A.....	COOPERATIVE STUDY OF RADIATION THERAPY.....	2R10 CA12261-05	94,010
PEREZ, CARLOS A.....	CLINICAL CANCER RADIATION ONCOLOGY CANCER CENTER.....	5P01 CA13053-05	1,677,086
PERMUTT, MARSHALL A.....	CONTROL OF INSULIN BIOSYNTHESIS.....	2R01 AM16746-04	59,667
PHILPOTT, GORDON W.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA15241-03S1	45,762
PHILPOTT, GORDON W.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17955-02	79,562
PIERCE, JOHN A.....	STUDY OF EMPHYSEMA.....	5P01 HL16118-03	331,705
PIERCE, JOHN A.....	STUDY OF EMPHYSEMA.....	5P01 HL16118-04	358,005
POLAKOSKI, KENNETH L.....	ACTIVE SITE CHARACTERIZATION OF ACROSIN.....	5R01 HD09422-02	35,657
PRICE, JOSEPH L.....	STUDIES ON THE OLFACTORY CORTEX.....	5R01 NS09518-06	31,438
PRICE, JOSEPH L.....	STUDIES ON THE OLFACTORY CORTEX.....	2R01 NS09518-07	52,915
PULLON, PETER A.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17966-02	31,926
PURVES, DALE.....	LONG-TERM CHANGES IN NEURONS.....	2R01 NS11699-02	63,541
RASKAS, HESCHEL J.....	GENE EXPRESSION OF ONCOGENIC VIRUSES.....	5R01 CA16007-03	50,568
RASKAS, HESCHEL J.....	CELLULAR ROLE IN REPLICATION OF ONCOGENIC VIRUSES.....	5R01 CA18462-02	37,259
ROEDER, ROBERT G.....	REGULATION OF ADENOVIRUS GENE EXPRESSION.....	5R01 CA16640-02	65,596
ROGERS, JOHN C.....	MECHANISM AND REASON FOR DNA EXCRETION FROM LYMPHOCYTES.....	5R01 CA17143-02	49,526
ROOS, ALBERT.....	TRANSMEMBRANE MOVEMENTS.....	5R01 HL00082-27	50,322
ROOS, ALBERT.....	TRANSMEMBRANE MOVEMENTS.....	5R01 HL00082-28	54,818
ROVAINEN, CARL M.....	ORGANIZATION OF PRIMITIVE SPINAL CORD.....	5R01 NS09367-06	51,067
ROVAINEN, CARL M.....	ORGANIZATION OF PRIMITIVE SPINAL CORD.....	2R01 NS09367-07	38,634
RUTHERFORD, WILLIAM E.....	CALCIUM ABSORPTION IN UREMIA.....	1R01 AM18843-01	50,750
SCHLAEFFER, WILLIAM W.....	MECHANISMS OF PERIPHERAL NERVE DYSFUNCTION.....	5R01 NS08620-06	64,689
SCHLESINGER, MILTON J.....	EFFECTS OF ENVELOPED RNA VIRUSES ON MURINE IMMUNITY.....	5R01 AI12237-02	73,163
SCHLESINGER, MILTON J.....	RNA-ENVELOPE VIRUS FORMATION IN ANIMAL CELLS.....	5R01 CA14311-04	71,087
SCHLESINGER, SONDR.....	STRUCTURE AND REPLICATION OF ENVELOPED RNA VIRUSES.....	5R01 AI11377-03	45,268
SCHLESINGER, SONDR.....	REPLICATION AND HOST RANGE SPECIFICITY OF LD VIRUS.....	5R01 AI12242-03	52,247
SCHLESSINGER, DAVID.....	PROCESSING AND TURNOVER OF HUMAN CELL NUCLEAR RNA.....	5R01 GM21357-02	44,353
SCHONFELD, GUSTAV.....	ASSAYS FOR THE PEPTIDES OF LIPOPROTEINS.....	3R01 HL15308-03S1	26,471
SCHONFELD, GUSTAV.....	ASSAYS FOR THE PEPTIDES OF LIPOPROTEINS.....	2R01 HL15308-04	56,850
SCHONFELD, GUSTAV.....	ASSAYS FOR THE PEPTIDES OF LIPOPROTEINS.....	5R01 HL15308-05	79,288
SCHONFELD, GUSTAV.....	STUDIES ON THE SECRETION OF PLASMA LIPOPROTEINS.....	2R01 HL15427-04	56,321
SHEARER, WILLIAM T.....	STIMULATION OF TUMOR CELL GROWTH BY ANTIBODY.....	5R01 CA16391-02	41,834
SHERMAN, LAURENCE A.....	CONTROLLING MECHANISMS FOR SYNTHESIS OF FIBRINOGEN.....	5R01 HL17753-02	34,893
SHERMAN, WILLIAM R.....	THE METABOLISM OF THE INOSITOLS AND INOSITIDES.....	5R01 NS05159-13	88,284
SHREFFLER, DONALD C.....	ORGANIZATION AND FUNCTIONS OF THE H-2 GENE COMPLEX.....	1R01 AI12734-01	149,810
SILBERT, DAVID F.....	BIOCHEMICAL GENETIC STUDY OF BACTERIAL FATTY ACIDS.....	5R01 GM16292-08	50,553
SILVER, SIMON D.....	BIOCHEMISTRY OF MEMBRANE MUTANTS OF ESCHERICHIA COLI.....	5R01 AI08062-08	66,141
SIMMONS, DAVID J.....	CIRCADIAN VARIATIONS IN CARTILAGE AND BONE GROWTH.....	5R01 AM16391-04	83,056
SIMMS, ERNEST S.....	THE STRUCTURE OF IGA IMMUNOGLOBULINS.....	5R01 AI03231-17	107,272
SLY, WILLIAM S.....	ENZYME THERAPY IN LYSOSOMAL STORAGE DISEASES.....	5P01 GM21096-02	264,976
SMITH, CARL H.....	PLACENTAL MECHANISMS OF AMINO ACID TRANSFER.....	5R01 HD07562-03	49,177
SOBEL, BURTON E.....	STUDY OF ISCHEMIC HEART DISEASE.....	5P50 HL17646-02	1,051,180
SPARKS, ROBERT E.....	BIOODORABLE THROMBORESISTANT SURFACES.....	1R01 HL18764-01	92,061
SPILBERG, ISAIAH.....	STUDIES ON CRYSTAL INDUCED CHEMOTACTIC FACTOR.....	1R01 AM19349-01	57,262
STAHL, PHILIP D.....	LYSOSOME BIOGENESIS: NORMAL AND TUMOR CELLS.....	2R01 CA12858-05	74,491
STROUD, MALCOLM H.....	MENIERE'S DISEASE—SURGERY FOR CONSERVATION OF HEARING.....	5R01 NS10448-05	49,707
SUTERA, SALVATORE P.....	FLOW, TRANSPORT AND MEMBRANE PHENOMENA IN BLOOD.....	2R01 HL12839-07	152,031
SWEET, FREDERICK.....	STEROID BIOSYNTHESIS, TRANSPORT & MECHANISM OF ACTION.....	5R01 AM16854-03	22,209
TER-POGOSSIAN, MICHEL M.....	CYCLOTRON PRODUCED ISOTOPIES IN BIOLOGY AND MEDICINE.....	5P01 HL13851-14	352,206
TER-POGOSSIAN, MICHEL M.....	CYCLOTRON PRODUCED ISOTOPIES IN BIOLOGY AND MEDICINE.....	2P01 HL13851-15	708,981
THACH, ROBERT E.....	REPLICATION OF VIRULENT AND ONCOGENIC VIRUSES.....	5R01 CA13008-05	94,464
THACH, WILLIAM T, JR.....	TIMING AND CODING OF CEREBELLAR OUTPUT.....	7R01 NS12777-01	58,754
THACH, WILLIAM T, JR.....	TIMING AND CODING OF CEREBELLAR OUTPUT.....	5R01 NS12777-02	63,013
THALMANN, RUEDIGER R.....	METABOLIC PROCESSES OF THE INNER EAR.....	2R01 NS06575-09	98,863
THALMANN, RUEDIGER R.....	METABOLIC PROCESSES OF THE INNER EAR.....	5R01 NS06575-10	115,375
TOLMACH, L J.....	EFFECTS OF X-RAYS ON NORMAL AND MALIGNANT CELLS.....	2R01 CA04483-17	135,872
TORACK, RICHARD M.....	CAPILLARY PERMEABILITY IN EXPERIMENTAL DIABETES.....	5R01 AM17485-03	29,299



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>MISSOURI—Continued</b>			
VANDERPLAS, JAMES M.....	INCREMENTAL COGNITIVE FUNCTIONS IN AGING.....	2R01 AG00456-02	46,641
VIETTI, TERESA J.....	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY.....	5R10 CA05587-16	251,341
VOLPE, JOSEPH J.....	REGULATION OF FATTY ACID SYNTHESIS DURING DEVELOPMENT.....	5R01 HD07464-03	33,574
WALTMAN, STEPHEN R.....	STUDIES IN GLAUCOMA AND RELATED DISEASES.....	2R01 EY01167-04	91,135
WARREN, JAMES C.....	BINDING, BIOSYNTHESIS, AND ACTION OF STEROIDS.....	5R01 AM15708-05	88,604
WEEKS, PAUL M.....	THE BIOLOGY OF SCAR MATURATION.....	5R01 GM21598-02	63,474
WIEST, WALTER G.....	HORMONAL REGULATION OF THE REPRODUCTIVE TRACT.....	3P50 HD08235-01S1	8,301
WIEST, WALTER G.....	HORMONAL REGULATION OF THE REPRODUCTIVE TRACT.....	5P50 HD08235-02	219,806
WILLARD, MARK B.....	AXONALLY TRANSPORTED PROTEINS IN THE VISUAL SYSTEM.....	5R01 NS12450-02	35,519
WILLIAMSON, JOSEPH R.....	CAPILLARY BASEMENT MEMBRANE IN CARDIOVASCULAR DISEASE.....	5R01 HL13694-06	66,754
WILLIAMSON, JOSEPH R.....	PHYSICAL PROPERTIES & STRUCTURE OF THE RED CELL MEMBRANE.....	5R01 HL17819-02	44,800
WOOLSEY, THOMAS A.....	THE STRUCTURE OF THE SOMATOSENSORY NEOCORTEX.....	5R01 NS10244-05	36,190
ORGANIZATION TOTAL	229 27,279,450		
STATE TOTAL	394 38,505,106		
<b>MONTANA</b>			
<b>BOZEMAN</b>			
MONTANA STATE UNIVERSITY	ZIP CODE 59715		
COKELET, GILES R.....	THE RHEOLOGY AND CAPILLARY FLOW OF BLOOD.....	5R01 HL12723-07	46,566
COKELET, GILES R.....	THE RHEOLOGY AND CAPILLARY FLOW OF BLOOD.....	5R01 HL12723-08	61,191
JURIST, JOHN M.....	LONGITUDINAL STUDY OF SKELETAL STATUS IN WOMEN.....	7R01 AM20130-01	18,820
JUTILA, JOHN W.....	STUDIES ON THE PATHOGENESIS OF WASTING DISEASES.....	5R01 AI06552-12	19,010
JUTILA, JOHN W.....	MEDICAL SIGNIFICANCE OF ANTI-HG IMMUNOSUPPRESSION.....	5R01 AI11625-03	15,739
REED, NORMAN D.....	IMMUNOLOGY OF GERM-FREE GENETICALLY THYMUSLESS MICE.....	5R01 AI10384-06	18,522
REED, NORMAN D.....	CELLULAR AND HUMORAL IMMUNITY IN HELMINTH INFECTIONS.....	5R01 AI12854-02	22,217
REED, NORMAN D.....	ONCOGENESIS IN CONGENITALLY ATHYMIC MICE.....	5R01 CA15322-03	15,887
ORGANIZATION TOTAL	8 217,952		
<b>GREAT FALLS</b>			
COLUMBUS HOSPITAL	ZIP CODE 59401		
STIMPFEL, JACK H.....	THE HISTOCOMPATIBILITY ANTIGENS OF THE MOUSE.....	5R01 AI06525-12	89,688
ORGANIZATION TOTAL	1 89,688		
<b>MISSOULA</b>			
STELLA DUNCAN MEMORIAL INSTITUTE	ZIP CODE 59801		
LARSON, CARL L.....	INHIBITION OF MELANOMAS BY CELL WALLS AND LIPIDS.....	5R01 CA15865-03	20,203
ORGANIZATION TOTAL	1 20,203		
UNIVERSITY OF MONTANA	ZIP CODE 59801		
ANDERSON, C LE ROY.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07134-04	18,161
FEVOLD, H RICHARD.....	ACTH ACTION ON ADRENAL 17ALPHA-HYDROXYLATION.....	5R01 AM18492-02	33,782
GUSTAFSON, GARY L.....	CONTROL OF ENZYME ACCUMULATION DURING DIFFERENTIATION.....	5R01 GM22188-02	24,872
HILL, WALTER E.....	PHYSICAL STUDIES OF ALTERED RIBOSOMAL SUBUNITS.....	5R01 GM17436-06	35,837
LARSON, CARL L.....	IMMUNOLOGICAL ASPECTS OF RIBOSOMES OF MYCOBACTERIA.....	5R01 AI05370-13	30,841
LARSON, CARL L.....	NONSPECIFIC RESISTANCE TO VIRAL-INDUCED TUMORS.....	5R01 CA12795-05	82,127
PATENT, GREGORY J.....	NERVOUS REGULATION OF INSULIN RELEASE.....	5R01 AM17161-02	14,975
WATSON, KENNETH F.....	CHARACTERIZATION OF RNA TUMOR VIRUS DNA POLYMERASES.....	5R01 CA16315-02	38,900
WATSON, KENNETH F.....	MECHANISM OF VIRAL RNA-DIRECTED DNA POLYMERIZATION.....	1R01 CA19729-01	49,058
ORGANIZATION TOTAL	9 328,553		
WESTERN MONTANA CLINIC	ZIP CODE 59801		
WILSON, WESLEY W.....	COOPERATIVE STUDY OF CANCER.....	3R10 CA14443-03S1	4,820

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator		Project title	Grant number	Dollars
<b>MONTANA—Continued</b>				
ORGANIZATION TOTAL	1	4,820		
STATE TOTAL	20	661,216		
<b>NEBRASKA</b>				
<b>LINCOLN</b>				
UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA AT LINCOLN			ZIP CODE 68508	
BANERJEE, MIHIR R.....		HORMONES, CELLULAR BIOSYNTHESIS & MAMMARY CARCINOGENESIS.....	5R01 CA11058-08	101,395
BRUMBAUGH, JOHN A.....		MECHANISMS MEDIATING MELANOGENIC CONTROL GENE EFFECTS.....	5R01 GM18969-05	41,559
BULLERMAN, LLOYD B.....		MOLDS AND MYCOTOXINS IN REFRIGERATED AND FROZEN FOODS.....	2R01 CA14260-04	28,908
CROMWELL, NORMAN H.....		STUDIES IN HETEROCYCLIC SYNTHESIS.....	5R01 CA02931-19	63,933
GUPTA, NABA K.....		GENETIC CODE AND PROTEIN SYNTHESIS IN MAMMALIAN SYSTEMS.....	5R01 GM18796-05	53,996
GUPTA, NABA K.....		PROTEIN SYNTHESIS INITIATION IN RED BLOOD CELLS.....	5R01 GM22079-02	61,957
MEINTS, RUSSEL H.....		STUDIES OF HEMOPOIETIC STEM CELL SURFACE CHARACTERS.....	5R01 AM17434-03	30,805
PARKHURST, LAWRENCE J.....		HEMOGLOBIN AND MYOGLOBIN KINETIC STUDIES.....	3R01 HL15284-03S1	28,470
PARKHURST, LAWRENCE J.....		HEMOGLOBIN AND MYOGLOBIN KINETIC STUDIES.....	2R01 HL15284-04	32,227
PARKHURST, LAWRENCE J.....		HEMOGLOBIN AND MYOGLOBIN KINETIC STUDIES.....	5R01 HL15284-05	55,487
PETERS, ALEXANDER R.....		PROPHYLACTIC ANTIBIOTICS IN ACRYLIC CEMENT.....	5R01 AM18794-02	100,005
SCHMEHL, FRANCIS L.....		BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07055-11	40,846
SMITH, GARY L.....		GROWTH CONTROL IN NORMAL AND NEOPLASTIC CELLS.....	5R01 CA17620-02	27,278
VAN ETEN, JAMES L.....		MACROMOLECULAR ASPECTS OF FUNGAL SPORE GERMINATION.....	5R01 AI08057-08	29,269
VIDAVER, ANNE MARIE K.....		VIROSES OF PSEUDOMONAS SPECIES.....	5R01 AI10638-05	35,013
VIDAVER, GEORGE A.....		AMINO ACID TRANSPORT BY RED CELL MEMBRANES.....	5R01 HL13256-06	45,359
ORGANIZATION TOTAL	16	776,507		
<b>OMAHA</b>				
CREIGHTON UNIVERSITY			ZIP CODE 68178	
ANDREWS, RICHARD V.....		BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05390-15	35,437
BAUMEL, JULIAN J.....		PUBLICATION OF ANATOMICAL NOMENCLATURE OF BIRDS.....	5R01 LM02420-02	27,662
BAUMSTARK, JOHN S.....		ELASTASE, SERUM INHIBITORS AND THE VASCULATURE.....	5R01 HL15979-03	87,680
DOWD, FRANK J.....		PROTEIN KINASE INTERACTION WITH SALIVARY GLAND.....	1R23 DE04572-01	13,036
GAMBAL, DAVID.....		ATHEROSCLEROSIS: EARLY EVENTS AND REGRESSION FACTORS.....	1R01 HL19399-01	40,330
HEANEY, ROBERT P.....		SUPPORT FOR BONE RESEARCH CENTER.....	5R01 AM07912-12	123,066
LYNCH, HENRY T.....		MAINTENANCE OF CANCER FAMILY SYNDROME RESOURCE.....	5R01 CA18408-02	52,462
MAGEE, DONAL F.....		THE SECRETION OF PEPsin.....	5R01 AM17125-03	35,633
SANDERS, W EUGENE, JR.....		PREVENTION OF PYOGENIC INFECTIONS.....	5R01 AI11584-04	28,029
TOWNLEY, ROBERT G.....		ALLERGIC DISEASES CENTER GRANT—MECHANISMS IN ASTHMA.....	5P50 AI12029-03	69,232
WATT, DEAN D.....		BIOLOGICAL-IMMUNOLOGICAL ACTIONS OF TOXINS.....	5R01 NS12365-02	35,120
ORGANIZATION TOTAL	11	547,687		
UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA AT OMAHA			ZIP CODE 68132	
HENDRICKS, SHELTON E.....		AGING, NEUROENDOCRINE FUNCTION AND BEHAVIOR.....	5R01 NS10027-05	44,457
ORGANIZATION TOTAL	1	44,457		
UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER			ZIP CODE 68105	
ANGLE, CAROL R.....		LOW LEVEL LEAD TOXICITY IN CHILDHOOD ANEMIAS.....	2R01 ES00939-03	47,414
BARAK, ANTHONY J.....		METHOTREXATE INDUCED LIVER INJURY.....	5R01 CA17009-02	27,721
BARKER, KENNETH L.....		SPECIFICITY OF UTERINE RESPONSE TO OVARIAN HORMONES.....	5R01 HD02851-09	52,345
BARKER, KENNETH L.....		SPECIFICITY OF UTERINE RESPONSE TO OVARIAN HORMONES.....	5R01 HD02851-10	48,137
CAMPBELL, GARY T.....		CYTOARCHITECTURE IN BRAIN-PITUITARY CONTROL SYSTEMS.....	7R01 AM19170-01	14,897
CAMPBELL, GARY T.....		CYTOARCHITECTURE IN BRAIN-PITUITARY CONTROL SYSTEMS.....	5R01 AM19170-02	25,546
COOK, DAVID E.....		REGULATION OF DIABETIC GLUCONEOGENESIS BY BIGUANIDES.....	5R01 AM17400-02	24,865
DONNELLY, THOMAS E, JR.....		REGULATION OF CYCLIC NUCLEOTIDE PHOSPHODIESTERASES.....	1R01 GM22424-01	18,995
ELLINGSON, ROBERT J.....		LONGITUDINAL STUDY OF EEGS AND EPS OF INFANTS.....	5R01 HD09338-02	84,740
GARDNER, PAUL J.....		IMMUNOCYTOCHEMICAL LOCALIZATION OF FSH IN THE TESTIS.....	1R01 HD09881-01	21,207

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEBRASKA—Continued</b>			
GILMORE, JOSEPH P.	NEURAL CONTROL OF BLOOD VOLUME	2R01 HL13427-06	101,128
GILMORE, JOSEPH P.	NEURAL CONTROL OF BLOOD VOLUME	5R01 HL13427-07	89,245
GILMORE, JOSEPH P.	REACTIVITY OF MAMMALIAN RENAL MICROCIRCULATION	5R01 HL17902-02	30,577
GRANDJEAN, CARTER J.	METABOLISM AND MODE OF ACTION OF NITROSAMINES	3R01 CA14659-03S1	4,227
GRANDJEAN, CARTER J.	METABOLISM AND MODE OF ACTION OF NITROSAMINES	2R01 CA14659-04	66,827
HEIDRICK, MARGARET L.	AGING OF IMMUNOCOMPETENT CELLS	5R01 AI12454-02	33,175
HEIDRICK, MARGARET L.	CYCLOC AMP LEVELS IN TUMOR CELLS	5R01 CA16279-03	28,762
JOYNER, WILLIAM L.	ROLE OF ENDOTHELIAL CELLS IN VASCULAR PERMEABILITY	1R01 HL19455-01	43,775
LANGENBACH, ROBERT J.	IN VITRO CHEMICAL CARCINOGENESIS	1R01 CA20022-01	38,908
LEMON, HENRY M.	CLINICAL CANCER EDUCATION	1R25 CA19623-01	112,984
MATSCHNER, JOHN T.	ROLE OF PITUITARY HORMONES IN THE ACTION OF VITAMIN K	1R01 HL19322-01	36,330
MORIARTY, C MICHAEL	CELLULAR MECHANISMS OF PITUITARY HORMONE SECRETION	5R01 AM18328-02	24,177
MORIARTY, GWEN C.	CYTOCHEMICAL DIFFERENTIATION OF GONADOTROPHS	5R01 HD08842-02	20,440
RAMALEY, JUDITH A.	NEURAL CONTROL OF ADRENAL DEVELOPMENT	5R01 HD08703-02	29,853
RECORDS, RAYMOND E.	NEOVASCULAR MACULAR DISEASE: PATHOGENESIS AND THERAPY	5R01 EY00827-03	9,193
RIGBY, PERRY	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05391-15	62,406
ROSENQUIST, GLENN C.	HISTOGENESIS AND BIOCHEMISTRY OF EMBRYONIC LUNG	7R01 HL20132-01	83,400
RYAN, WAYNE L.	INITIATION-PROMOTION CARCINOGENESIS-ROLE OF ANTIBODY	5R01 CA17846-02	44,282
SHARP, JOHN G.	ARTIFICIAL CAPILLARY CULTURE OF HEMOPOIETIC CELLS	1R01 CA18548-01	37,135
SHUBIK, PHILIPPE	STUDIES IN TUMOR ANGIOGENESIS AND INVASIVENESS	5R01 CA14766-04	32,793
ORGANIZATION TOTAL	30	1,295,484	
STATE TOTAL	58	2,664,135	
<b>NEVADA</b>			
<b>RENO</b>			
UNIVERSITY OF NEVADA SYSTEM—UNIVERSITY OF NEVADA RENO      ZIP CODE 89507			
DILL, DAVID B.	CARDIOVASCULAR ADAPTATION TO DESERT AND MOUNTAIN	5R01 AG00437-05	22,818
DILL, DAVID B.	CARDIOVASCULAR ADAPTATION TO DESERT AND MOUNTAIN	5R01 AG00437-06	21,126
STRATTON, CLIFFORD J.	FINE STRUCTURAL ASPECTS OF LUNG SURFACTANT	1R23 HL19634-01	38,081
ORGANIZATION TOTAL	3	82,025	
STATE TOTAL	3	82,025	
<b>NEW HAMPSHIRE</b>			
<b>DURHAM</b>			
UNIVERSITY OF NEW HAMPSHIRE SYSTEM—UNIVERSITY OF NEW HAMPSHIRE      ZIP CODE 03824			
CHASTEEN, N DENNIS	VANADYL ION EPR: METAL-BIOPOLYMER INTERACTIONS	5R01 GM20194-05	41,736
COLLINS, WALTER M.	GENETICS, THE LYMPHOCYTE AND TUMOR REGRESSION	5R01 CA17680-02	46,707
GREEN, DONALD M.	EARLY EXTRACELLULAR EVENTS IN DNA INFECTION	5R01 AI11318-03	33,764
HERBST, EDWARD J.	POLYAMINES AS METABOLIC INDICATORS OF CARCINOGENESIS	5R01 CA16827-02	54,711
HERBST, EDWARD J.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07108-05	45,256
MORRISON, JAMES D.	SYNTHESIS OF AMBIPHILIC CYCLODEPSIPEPTIDES	5R01 HL15771-03	34,724
PISTOLE, THOMAS G.	NATURALLY-OCCURRING AGGLUTININS FROM INVERTEBRATES	5R01 AI12817-02	17,350
SMITH, ROBERT A, JR.	THE PHYSIOLOGY OF TUNED CHANNELS IN HUMAN VISION	5R23 EY01475-02	8,102
STEWART, JAMES A.	REGULATION OF PROTEIN SYNTHESIS IN NEURAL DEVELOPMENT	5R01 NS08391-08	41,441
ORGANIZATION TOTAL	9	323,791	
<b>HANOVER</b>			
DARTMOUTH COLLEGE      ZIP CODE 03755			
ALLEN, ROBERT D.	STUDIES ON SELECTED BIOLOGICAL MOVEMENT PROCESSES	2R01 GM22356-02	107,105



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW HAMPSHIRE—Continued</b>			
ALLEN, ROBERT D.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07056-03	30,874
BARTLETT, DONALD, JR.....	FACTORS AFFECTING GROWTH AND FUNCTION OF LUNG.....	5R01 HL15497-03	17,287
BARTLETT, DONALD, JR.....	FACTORS AFFECTING GROWTH AND FUNCTION OF LUNG.....	5R01 HL15497-04	20,366
BERGER, EDWARD M.....	GENETIC CONTROL OF PROTEIN SYNTHESIS IN EUKARYOTES.....	5R01 GM22866-02	59,031
BORISON, HERBERT L.....	CHEMOSENSORS OF THE NERVOUS SYSTEM.....	5R01 NS04456-14	71,016
BORISON, HERBERT L.....	CHEMOSENSORS OF THE NERVOUS SYSTEM.....	2R01 NS04456-15	81,013
BROWN, STANLEY A.....	BIOELECTRO-MECHANICS OF FRACTURE MANAGEMENT.....	5R01 AM17749-02	57,482
BROWN, STANLEY A.....	BIOELECTRO-MECHANICS OF FRACTURE MANAGEMENT.....	5R01 AM17749-03	62,093
CARPENTER, STANLEY J.....	ULTRASTRUCTURAL STUDIES ON RODENT PLACENTAL MEMBRANES.....	1R01 HD09585-01	56,100
CHAMBERS, WILBERT F.....	DEVELOPING NEOPLASMS FROM EMBRYONIC PITUITARY.....	1R01 CA18148-01	56,156
CRICHLAW, ROBERT W.....	HEPATIC ARTERIAL INFUSION SYSTEM.....	1R26 CA19280-01	21,035
CULP, WILLIAM J.....	SODIUM CHANNEL COMPONENTS AND MEMBRANE EXCITATION.....	5R01 NS12067-02	53,007
CULP, WILLIAM J.....	SODIUM CHANNEL COMPONENTS AND MEMBRANE EXCITATION.....	5R01 NS12067-03	39,511
DAUBENSPECK, JOHN A.....	DYNAMICS OF BREATHING PATTERN RESPONSES TO LOADING.....	1R01 HL19248-01	58,582
DEAR, REED.....	OXYGEN AND VASCULAR SMOOTH MUSCLE.....	1R01 HL19054-01	32,371
EDWARDS, BRIAN R.....	CORRELATION OF NA AND CA TRANSPORT IN RENAL TUBULES.....	5R01 AM17642-02	57,101
FERM, VERGIL H.....	TERATOGENIC EFFECTS OF HEAVY METALS.....	5R01 ES00697-05	64,715
FORSTER, ROY P.....	CELLULAR ASPECTS OF ACTIVE TRANSPORT.....	2R01 HL04457-18	68,413
GALTON, VALERIE A.....	THE METABOLISM AND ACTION OF THYROXINE IN THE PITUITARY.....	5R01 AM16172-03	30,318
GALTON, VALERIE A.....	MECHANISMS OF THYROID HORMONE ACTION IN DEVELOPMENT.....	5R01 HD09020-02	29,637
GILBERT, JOHN J.....	VITAMIN E: NEW BIOASSAY, NEW EFFECTS, NEW COMPOUND.....	5R01 HD08210-03	21,920
GOSSELIN, ROBERT E.....	DRUG EFFECTS ON SOLUTE TRANSPORT ACROSS EPITHELIA.....	5R01 GM11598-13	52,764
GRAF, VIRGIL A.....	BEHAVIORAL VISUAL FUNCTION.....	5R01 EY00355-08	18,361
GRIBBLE, GORDON W.....	SYNTHESIS OF POLYNUCLEAR AROMATIC HYDROCARBONS.....	5R01 CA14968-03	25,754
HARRIS, EDWARD D, JR.....	STUDY OF CONNECTIVE TISSUE METABOLISM IN MAN.....	2R01 AM14780-05	72,448
HARRIS, EDWARD D, JR.....	STUDY OF CONNECTIVE TISSUE METABOLISM IN MAN.....	5R01 AM14780-06	68,130
INSELBURG, JOSEPH W.....	STUDIES OF STABLE PLASMID-CELL ASSOCIATIONS.....	5R01 AI08937-08	59,560
KILHAM, LAWRENCE.....	INTRAUTERINE AND TRANSPLACENTAL VIRUS INFECTIONS.....	5R01 HD07775-15	46,649
KILHAM, LAWRENCE.....	INTRAUTERINE AND TRANSPLACENTAL VIRUS INFECTIONS.....	5R01 HD07775-16	54,598
LAYTON, WILLIAM M, JR.....	CONGENITAL HEART MALFORMATIONS AND SITUS INVERSUS.....	1R01 HL19430-01	44,711
LEATON, ROBERT N.....	BRAIN MECHANISMS AND REACTIONS TO NOVELTY.....	5R01 HD04199-07	27,294
LIENHARD, GUSTAV E.....	THE GLUCOSE TRANSPORT SYSTEM OF THE HUMAN ERYTHROCYTE.....	1R01 GM22996-01	51,879
LONGNECKER, DANIEL S.....	STUDIES OF AZASERINE INDUCED DNA CHANGES IN RATS.....	5R01 CA17843-02	43,653
LONGNECKER, DANIEL S.....	SURVEY OF HUMAN PANCREASES FOR ACINAR CELL DYSPLASIA.....	1R26 CA19410-01	15,021
LUBIN, MARTIN.....	NEUROBLASTOMA: AN E.M. STUDY OF TUMOR DIFFERENTIATION.....	5R01 CA15085-03	28,285
LUBIN, MARTIN.....	MODIFICATION OF TUMOR CELLS AND TUMOR SYSTEMS.....	5R01 CA17293-02	144,096
MARGOLIS, GEORGE.....	VIRUSES, REPRODUCTIVE FAILURE, PERINATAL PATHOLOGY.....	5R01 HD08184-11	71,566
MARIN-PADILLA, MIGUEL.....	NORMAL & ABNORMAL STRUCTURE, HUMAN CEREBRAL CORTEX.....	5R01 HD09274-02	45,379
MC INTYRE, O ROSS.....	COOPERATIVE STUDY OF ACUTE LEUKEMIA.....	5R10 CA04326-18	87,439
MC INTYRE, O ROSS.....	INTERFERON AND THE IMMUNE RESPONSE IN CANCER PATIENTS.....	5R01 CA16128-02	84,621
MC INTYRE, O ROSS.....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA19379-01	77,922
MERRITT, KATHARINE.....	DIAGNOSIS OF GONORRHEA BY IMMUNOELECTROPHORESIS.....	5R01 AI12122-02	18,203
MICHAELS, GEORGE A.....	STUDIES OF NUCLEAR ENVELOPE IN NORMAL AND TUMOR CELLS.....	5R01 CA15831-03	49,537
MUDGE, GILBERT H.....	PHARMACOLOGY OF ANGIOGRAPHIC AND CHOLEGRAPHIC AGENTS.....	5R01 AM06818-15	71,851
MUDGE, GILBERT H.....	DRUG DISTRIBUTION: RENAL PARENCHYMA, LOOP OF HENLE.....	5R01 AM16960-03	33,864
MUNCK, ALLAN U.....	THE MODE OF ACTION OF STEROID HORMONES.....	5R01 AM03535-17	98,847
MUNCK, ALLAN U.....	THE MODE OF ACTION OF STEROID HORMONES.....	5R01 AM03535-18	95,925
MUNCK, ALLAN U.....	GLUCOCORTICOID-RESISTANT LEUKEMIC LYMPHOCYTES.....	5R01 CA17323-02	55,950
NODA, LAFAYETTE H.....	HIGH ENERGY PHOSPHATE TRANSFERRING ENZYMES.....	9R01 GM23123-19	96,231
PATRICK, JAMES W.....	TROPIC INTERACTIONS OF NERVE AND MUSCLE.....	5R01 NS11635-03	15,072
PETTENGILL, OLIVE S.....	IN VITRO FACTORS ONCOGENICITY OF CULTURED TUMOR CELLS.....	5R01 CA17487-02	36,975
PFEFFERKORN, ELMER R.....	BIOCHEMICAL STUDIES OF ARBOVIRUS MULTIPLICATION.....	5R01 AI08238-10	59,859
SALANS, LESTER B.....	MORPHOLOGIC AND METABOLIC STUDIES OF HUMAN OBESITY.....	5R01 AM13321-08	105,418
SCORNIK, OSCAR A.....	REGULATION OF PROTEIN SYNTHESIS IN MAMMALIAN LIVER.....	5R01 AM13336-08	61,564
SHARP, JOHN J.....	THE INTERACTION OF BLOOD PLATELET MEMBRANE AND FIBRIN.....	2R01 HL16841-03	36,723
SMITH, KENDALL A.....	TUMOR IMMUNITY IN HUMAN AND MURINE LEUKEMIA.....	5R01 CA17643-02	63,613
SMITH, LUCILE.....	RESPIRATORY CHAIN SYSTEM OF HEART MUSCLE AND BACTERIA.....	5R01 GM06270-17	64,786
SMITH, LUCILE.....	RESPIRATORY CHAIN SYSTEM OF HEART MUSCLE AND BACTERIA.....	5R01 GM06270-18	67,913
SMITH, ROGER P.....	METHEMOGLOBINEMIA AND ANTIHYPERTENSIVE DRUGS.....	2R01 HL14127-14	67,525
SORENSEN, GEORGE D.....	MYELOMA TUMORS IN CELL CULTURE.....	3R01 CA13625-04S1	18,989



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW HAMPSHIRE—Continued</b>			
SORENSEN, GEORGE D.....	PATHOBIOLOGY OF SMALL CELL CARCINOMA OF THE LUNG.....	1R01 CA17710-01	107,923
SORENSEN, GEORGE D.....	PATHOBIOLOGY OF SMALL CELL CARCINOMA OF THE LUNG.....	5R01 CA17710-02	135,851
SPENCER, THOMAS A.....	MECHANISM OF C4 DEMETHYLATION IN STEROID BIOGENESIS.....	2R01 AM12855-08	53,456
SPIEGEL, MELVIN.....	REAGGREGATION OF DISSOCIATED EMBRYONIC AND ADULT CELLS.....	5R01 HD09320-02	49,406
SQUIRES, CATHERINE L.....	FUSION OF THE RIBOSOMAL RNA PROMOTER TO OTHER OPERONS.....	1R01 GM22650-01	86,268
ST JOHN, WALTER M.....	BRAIN STEM INTEGRATION OF CHEMORECEPTOR ACTIVITY.....	7R01 HL20574-01	24,745
STRICKLER, JAMES C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05392-15	152,256
STROHBEHN, JOHN W.....	A MATHEMATICAL INVESTIGATION OF TOMOGRAPHY.....	5R01 GM22081-02	31,031
TENNEY, STEPHEN M.....	INTERRELATIONSHIPS OF CIRCULATION AND RESPIRATION.....	5R01 HL02888-20	44,129
THRON, CHRISTOPHER D.....	MATHEMATICAL THEORY OF PHARMACOKINETICS.....	5R01 GM21269-02	29,493
TRUMPOWER, BERNARD L.....	STRUCTURE AND FUNCTION OF HEART MEMBRANE PROTEINS.....	2R01 GM20379-04	49,307
VALTIN, HEINZ.....	HEREDITARY DIABETES INSIPIDUS.....	5R01 AM08469-12	114,970
VALTIN, HEINZ.....	ECTOPIC HORMONES IN SMALL CELL CARCINOMA OF THE LUNG.....	1R01 CA19613-01	57,251
YAGER, JAMES D, JR.....	DNA REPAIR DURING INITIATION OF HEPATOCARCINOGENESIS.....	1R01 CA18353-01	57,495
YAGER, JAMES D, JR.....	EFFECT OF DIETARY STRESS ON PANCREATIC CARCINOGENESIS.....	1R01 CA20948-01	96,314
ORGANIZATION TOTAL	76 4,424,003		
STATE TOTAL	85 4,747,794		
<b>NEW JERSEY</b>			
<b>CAMDEN</b>			
<b>INSTITUTE FOR MEDICAL RESEARCH ZIP CODE 08103</b>			
CORIELL, LEWIS L.....	CORE PROGRAM ON ETIOLOGY OF CANCER.....	3P01 CA11405-07S1	211,547
CORIELL, LEWIS L.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05582-09	56,095
LASFARGUES, ETHELNE Y.....	TISSUE CULTURE STUDIES OF THE MAMMARY TUMOR VIRUS.....	5R01 CA08515-11	89,168
MC GARRITY, GERARD J.....	MASS AIR FLOW FOR ANIMAL ISOLATION/QUARANTINE.....	2R01 RR00903-02	54,315
MILLER, ROBERT C.....	CHEMICALLY INDUCED HERITABLE CHROMOSOME DEFECTS.....	5R01 ES01136-02	106,223
MOORE, DAN H.....	ETIOLOGICAL STUDIES OF MAMMARY CARCINOMA.....	5R01 CA08740-10	188,288
ORGANIZATION TOTAL	6 705,636		
<b>HOBOKEN</b>			
<b>STEVENS INSTITUTE OF TECHNOLOGY ZIP CODE 07030</b>			
SCHILLER, RALPH.....	LASER HOMODYNE STUDY OF PLAQUE BACTERIA AGGREGATION.....	1R01 DE04559-01	29,658
ORGANIZATION TOTAL	1 29,658		
<b>JERSEY CITY</b>			
<b>JERSEY CITY MEDICAL CENTER ZIP CODE 07304</b>			
WEDEEN, RICHARD P.....	AUTORADIOGRAPHIC STUDIES OF CONCENTRATIVE TRANSPORT.....	5R01 AM16266-05	71,430
ORGANIZATION TOTAL	1 71,430		
<b>LIVINGSTON</b>			
<b>ST. BARNABAS MEDICAL CENTER ZIP CODE 07039</b>			
COLLITO, MICHAEL B.....	OROFACIAL GROWTH IN DIFFERENTLY TREATED CLP PATIENTS.....	1R01 DE04317-01	24,430
ORGANIZATION TOTAL	1 24,430		
<b>NEWARK</b>			
<b>CANCER INSTITUTE OF NEW JERSEY ZIP CODE 07107</b>			
CLEMENTE, CELESTINO.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	1P20 CA18828-01	57,172
ORGANIZATION TOTAL	1 57,172		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW JERSEY—Continued</b>			
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY      ZIP CODE 07103</b>			
BARTELL, PASQUALE F.	STUDIES ON THE EXTRACELLULAR SLIME OF P. AERUGINOSA.....	5R01 AI08504-08	53,024
CHINARD, FRANCIS P.	PULMONARY TRANSPORT AND METABOLISM IN VIVO.....	5R01 HL12879-07	268,380
DE FOUW, DAVID O.	MORPHOMETRIC STUDY OF ISOLATED PERFUSED LUNGS.....	1R23 HL19571-01	30,851
ETTINGER, PHILIP O.	REGIONAL CONDUCTION ABNORMALITIES AND ARRHYTHMIAS.....	1R01 HL19398-01	33,497
FARNSWORTH, PATRICIA N.	COMPARATIVE STUDY OF AGING OF THE CRYSTALLINE LENS.....	5R01 EY01533-02	36,058
FU, S JOSEPH.	PROGRESSION OF CATARACTOGENESIS AND POSSIBLE REVERSAL.....	5R01 EY01156-03	61,570
GERTNER, SHELDON B.	METABOLIC & DRUG STUDIES ON EXPERIMENTAL FAT EMBOLISM.....	1R01 HL18607-01	28,643
GONA, AMOS G.	NORMAL AND THYROID-INDUCED CEREBELLAR MATURATION.....	5R01 HD08157-03	32,702
HILDING, DAVID A.	ELECTRON MICROSCOPY AND HISTOCHEMISTRY OF INNER EAR.....	5R01 NS11636-04	16,678
HIRSCHBERG, ERICH.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05393-15	128,816
HOWLAND, RICHARD D.	HETEROGENEITY OF UDP-GLUCURONYLTRANSFERASE.....	5R01 GM20481-03	20,392
INGOLIA, NICHOLAS A.	RNA TRANSPORT IN NORMAL AND REGENERATING NERVES.....	5R01 NS11259-03	22,571
JACOBY, JACOB H.	DRUGS AND BRAIN SEROTONIN METABOLISM.....	1R01 NS12876-01	47,175
KAPLAN, HARRY A.	VASCULAR ANATOMY OF THE TELENCEPHALON.....	1R01 HL19053-01	26,178
KHACHADURIAN, AVEDIS K.	FAMILIAL HYPERCHOLESTEROLEMIA: STUDIES ON FIBROBLASTS.....	1R01 HL18878-01	72,231
KUMAR, SURIENDER.	MECHANISM OF CONTROL OF FATTY ACID SYNTHESIS.....	5R01 AM16070-03	46,009
KUMAR, SURIENDER.	PULMONARY FATTY ACID AND PHOSPHOLIPID METABOLISM.....	1R01 HL18938-01	25,133
LAEMLE, LOIS K.	AN EXPERIMENTAL STUDY OF THE DEVELOPING VISUAL SYSTEM.....	5R01 EY01174-03	32,145
LAZARO, ERIC J.	LIPID ROLE IN PANCREATITIS: PATHOPHYSIOLOGY & DIAGNOSIS.....	5R01 AM17921-02	55,360
LEA, MICHAEL A.	HISTONE METABOLISM IN NEOPLASTIC TISSUES.....	5R01 CA12933-05	51,277
LEA, MICHAEL A.	NON-HISTONE CHROMOSOMAL PROTEINS AND HEPATOMA GROWTH.....	5R01 CA16274-03	29,573
LEEY, CARROLL M.	ESTIMATION OF PORTAL BLOOD FLOW.....	5R01 HL16535-02	16,126
LOWNDES, HERBERT E.	DRUG-INDUCED SENSORY AND MOTOR NERVE DYSFUNCTION.....	5R01 NS11948-02	24,889
MACEDO-SOBRIÑO, BRAZ.	CELL MEDIATED IMMUNITY IN GINGIVAL INFLAMMATION.....	1R01 DE04501-01	24,472
MC ARDLE, JOSEPH J.	CONTROL OF MUSCLE DURING REINNERVATION.....	2R01 NS11055-04	36,796
MOSCHOS, CHRISTOS B.	CORONARY THROMBOSIS.....	5R01 HL13036-06	80,300
OPDERBECK, WILLIAM R.	COMPARISON OF TREATMENT PROCEDURES USED IN ENDODONTICS.....	1R23 DE04335-01	12,750
OPYDKE, DAVID F.	DEVELOPMENT OF VERTEBRATE VASCULAR CONTROL SYSTEMS.....	1R01 HL18868-01	15,529
PERL, WILLIAM	TRACER AND OSMOTIC KINETICS IN BODY ORGANS.....	2R01 HL12974-07	57,588
PERL, WILLIAM	TRACER AND OSMOTIC KINETICS IN BODY ORGANS.....	5R01 HL12974-08	62,856
REDWOOD, WILLIAM R.	LIPOSOMES AS CARRIERS FOR ANTITUMOR AGENTS.....	1R01 CA19127-01	8,915
REGAN, TIMOTHY J.	MYOCARDIAL FUNCTION AND METABOLISM IN CHRONIC DISEASE.....	5R01 HL09914-11	171,155
RUBIN, ARNOLD D.	PROGRAM FOR CANCER EDUCATION.....	1R25 CA19536-01	52,812
RUSH, BENJAMIN F, JR.	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA12289-05S1	22,646
RUSH, BENJAMIN F, JR.	PATHOPHYSIOLOGY OF POST-TRAUMATIC AND SHOCK STATES.....	2R01 HL13193-07	49,359
SALEN, GERALD	THE METABOLISM OF URISODEOXYCHOLIC ACID IN MAN.....	5R01 AM18707-02	40,342
SALEN, GERALD	METABOLISM OF CHOLESTANOL AND CHOLESTEROL IN MAN.....	5R01 HL17818-03	39,765
SALEN, GERALD	METABOLISM OF CHOLESTANOL AND CHOLESTEROL IN MAN.....	5R01 HL17818-04	50,849
SCHWALB, MARVIN N.	REGULATION OF MORPHOGENESIS IN THE HIGHER FUNGI.....	5R01 AI09779-07	34,035
SHOVLIN, FRANCIS E.	UPTAKE OF HYDROXYAPATITE PHOSPHORUS BY ORAL BACTERIA.....	5R01 DE03867-03	37,786
SIEGEL, ALLAN	ROLE OF THE LIMBIC SYSTEM IN HYPOTHALAMIC AGGRESSION.....	5R01 NS07941-07	29,359
STEPHENS, GEORGE M.	SKIN ELECTRODE ELECTRORETINOGRAM: VALUE FOR VER.....	5R01 EY01320-02	27,086
STUDZINSKI, GEORGE P.	ACTION OF AMINONUCLEOSIDE ON NORMAL AND CANCER CELLS.....	7R01 CA19750-01	58,390
STUDZINSKI, GEORGE P.	DEOXYRIBONUCLEASES OF TUMOR NUCLEI.....	7R01 CA20043-01	50,022
SWAN, KENNETH G.	VASOACTIVE AGENTS IN SPLANCHNIC VISCERA OF PRIMATES.....	5R01 HL18096-02	28,345
VITALE, LEONARD F.	COOPERATIVE STUDY OF CHILDREN'S CANCER.....	5R10 CA12637-05	57,002
YANG, CHUNG S.	CYTOCHROME P-450 AND CARCINOGEN ACTIVATION.....	5R01 CA16788-02	34,153
YANG, CHUNG S.	CYTOCHROME P-450 AND CARCINOGEN ACTIVATION.....	5R01 CA16788-03	36,223
YANG, CHUNG S.	NUCLEAR PHOSPHOPROTEIN PHOSPHATASE.....	1R01 GM23164-01	22,280
ORGANIZATION TOTAL	49      2,300,703		
<b>NEWARK BETH ISRAEL MEDICAL CENTER      ZIP CODE 07112</b>			
KIRSCHNER, MARVIN A.	BIOCHEMICAL MARKERS OF MALIGNANCY.....	1R01 CA18954-01	30,940
ORGANIZATION TOTAL	1      30,940		
<b>RUTGERS UNIVERSITY      ZIP CODE 07102</b>			
FEDER, HARVEY H.	HORMONAL REGULATION OF BEHAVIOR.....	5R01 HD04467-05	56,242
HALL, JAMES C.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07059-11	40,016

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW JERSEY—Continued</b>			
JORDAN, FRANK.....	STUDY OF THIAMINE PYROPHOSPHATE AND MG(II) ENZYMES.....	5R01 AM17495-03	27,968
JORDAN, FRANK.....	TOTAL APPROACH TO NUCLEOSIDE CONFORMATIONAL ANALYSIS.....	5R01 GM19338-02	22,028
ORGANIZATION TOTAL	4	146,254	
<b>NEW BRUNSWICK</b>			
<b>RUTGERS UNIVERSITY</b>	<b>ZIP CODE 08903</b>		
AMAREL, SAUL.....	SPECIAL RESEARCH RESOURCE: COMPUTERS IN BIOMEDICINE.....	5P41 RR00643-05	407,260
AMAREL, SAUL.....	SPECIAL RESEARCH RESOURCE: COMPUTERS IN BIOMEDICINE.....	5P41 RR00643-06	464,702
APPLEBY, ALAN.....	RADIATION CHEMISTRY OF HIGH ENERGY HEAVY ION BEAMS.....	1R01 CA19307-01	39,176
BARFIELD, RONALD J.....	ENDOCRINE & NEURAL BASES OF BEHAVIOR.....	5R01 HD04484-06	25,302
BROWN, HARRY D.....	MICROCALORIMETRIC ANALYSIS FOR CLINICAL CHEMISTRY.....	2R01 GM22679-02	66,201
CHAMPE, SEWELL P.....	GENETIC CONTROL OF BACTERIOPHAGE DEVELOPMENT.....	5R01 GM17020-08	75,008
COLLIER, GEORGE H.....	NUTRITIONAL AND BIOCHEMICAL BASES OF ACTIVITY.....	5R01 HD03279-11	50,936
COUSINS, ROBERT J.....	ZINC AND THE SYNTHESIS OF ZINC BINDING PROTEIN.....	5R01 AM18555-02	21,644
COUSINS, ROBERT J.....	METABOLISM AND BIOCHEMICAL ACTIONS OF CADMIUM.....	5R01 ES00777-05	21,543
DAVIS, FRANK F.....	NONIMMUNOGENIC ENZYMES FOR THERAPEUTIC USE.....	5R01 GM20946-02	44,237
DENNEY, DONALD B.....	REACTIONS OF ORGANOPHOSPHORUS COMPOUNDS.....	5R01 CA10737-12	57,669
FALK, JOHN L.....	BEHAVIORAL SHARE IN FLUID BALANCE AND HYPERTENSION.....	3R01 AM14180-06S1	14,756
FISHER, HANS.....	HISTIDINE: REQUIREMENT, DERIVATIVES AND THEIR FUNCTION.....	1R01 AM18932-01	25,211
FRANKEL, HARRY M.....	PHYSIOLOGICAL REGULATION DURING CHRONIC HYPERTHERMIA.....	5R01 HL17352-02	31,996
GANDELMAN, RONALD J.....	AGGRESSIVE BEHAVIOR OF PREGNANT AND LACTATING MICE.....	5R01 HD06863-04	20,274
GANDELMAN, RONALD J.....	AGGRESSIVE BEHAVIOR OF PREGNANT AND LACTATING MICE.....	5R01 HD06863-05	18,633
GRIMINGER, PAUL.....	EFFECT OF AGE AND TRAUMA ON NUTRIENT REQUIREMENTS.....	5R01 AG00160-02	20,794
GROB, GERALD N.....	HISTORY OF MENTAL HOSPITALS IN THE UNITED STATES TO 1900.....	5R01 LM02306-07	16,418
HERMAN, ROBERT.....	IMMUNOLOGICAL ASPECTS OF RODENT MALARIA.....	5R01 A11386-03	26,345
HUDRLIK, PAUL F.....	APPROACHES TO ALPHA-METHYLENE-LACTONE TUMOR INHIBITORS.....	1R01 CA18897-01	40,773
KAPLAN, MURRAY L.....	EARLY NUTRITION—DEVELOPMENT OF OBESITY.....	5R01 AM18557-02	16,301
KENT, HARRY A, JR.....	ACTION OF CONTRACEPTIVE TETRAPEPTIDE AND STEROID.....	1R01 HD09608-01	86,169
LAMPEN, J OLIVER.....	CELL PERMEABILITY AND INVERTASE BIOSYNTHESIS.....	5R01 AI04572-15	96,852
LEATHEN, JAMES H.....	OVARIAN INVOLUTION IN AGING.....	5R01 AG00468-03	32,594
LEATHEN, JAMES H.....	HYPOTHALAMO-HYPOPHYSICAL-ADRENAL AXIS MATURATION.....	1R01 HD09533-01A1	39,705
MACKAY, VIVIAN L.....	ENZYMES, GENES, AND REGULATION OF RECOMBINATION.....	5R01 GM22149-02	33,390
MANDELES, STANLEY.....	DETERMINATION OF VIRUS NUCLEIC ACID SEQUENCES.....	5R01 GM19148-02	27,583
MARAMOROSCH, KARL.....	YELLOW FEVER VIRUS IN STRAINS OF AEDES AEGYPTI.....	5R01 AI12400-02	47,315
MARAMOROSCH, KARL.....	YELLOW FEVER VIRUS IN STRAINS OF AEDES AEGYPTI.....	5R01 AI12400-03	36,532
MOSS, ROBERT A.....	SYNTHESES OF ELAIOMYCIN AND OTHER AZOXYALKANES.....	5R01 CA14912-11	37,403
NEIMARK, EDITH D.....	DEVELOPMENT OF MNEMONIC STRATEGIES.....	5R01 HD01725-10	18,273
NEIMARK, EDITH D.....	DEVELOPMENT OF MNEMONIC STRATEGIES.....	5R01 HD01725-11	26,252
OLSON, WILMA K.....	NUCLEIC ACID CONFORMATION AND PROPERTIES.....	5R01 GM20861-03	18,552
OTHMER, HANS G.....	DYNAMIC PATTERN IN CHEMICALLY-REACTING SYSTEMS.....	5R01 GM21558-02	20,361
PAGE, CHARLES H.....	POSTURAL REGULATION OF LOAD COMPENSATING REFLEXES.....	2R01 NS12262-02	30,832
PORETZ, RONALD D.....	STRUCTURAL ANALYSIS OF CELL SURFACE CARBOHYDRATES.....	5R01 CA17193-02	52,029
PORETZ, RONALD D.....	DEVELOPMENT OF TYPE B PHYTOHEMAGGLUTININ.....	9R01 CA20889-04	35,230
PRAMER, DAVID.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07058-11	139,461
SAN FILIPPO, JOSEPH, JR.....	A STUDY OF SUPEROXIDE REACTIVITY.....	1R01 AM18713-01	49,574
SCHAFFNER, CARL P.....	CHEMISTRY OF POLYENE ANTIFUNGAL ANTIBIOTICS.....	2R01 AI02095-18	65,684
SCHAFFNER, CARL P.....	POLYENE MACROLIDES - PHARMACOLOGY AND TOXICOLOGY.....	5R01 AI12602-02	107,100
SCHUGAR, HARVEY J.....	BIOINORGANIC AND MEDICAL ASPECTS OF CU-CYSTINATE.....	5R01 AM16412-03	31,184
SIMON, LEE D.....	MOLECULAR MECHANISMS IN THE ASSEMBLY OF VIRUSES.....	7R01 AI14101-01	40,000
STRAUSS, ULRICH P.....	SPECIFIC COUNTERION BINDING BY POLYELECTROLYTES.....	2R01 GM12307-11	53,540
STRUMEYER, DAVID H.....	POSSIBLE ROLE OF AMYLASE INHIBITOR IN CELIAC DISEASE.....	1R01 AM18800-01	42,581
WITKIN, EVELYN M.....	INDUCED MUTATIONS IN BACTERIA.....	5R01 AI10778-05	65,204
ORGANIZATION TOTAL	46	2,738,579	

## **PISCATAWAY**

**COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL**      **ZIP CODE 08854**

BRACKENRIDGE, BRUCE M.....	CYCLIC AMP AND METABOLIC CONTROL IN THE NERVOUS SYSTEM.....	2R01 NS10975-09	75,581
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**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW JERSEY—Continued</b>			
BRECKENRIDGE, BRUCE M.....	CYCLIC AMP AND METABOLIC CONTROL IN THE NERVOUS SYSTEM.....	5R01 NS10975-10	79,802
BROSTROM, CHARLES O.....	CONTROL OF CYCLIC NUCLEOTIDE PHOSPHODIESTERASE.....	5R01 NS11340-03	22,606
BROWNING, EDWARD T.....	METABOLIC REGULATION IN GLIOMA CELLS.....	5R01 NS08436-06	30,779
CRANE, ROBERT K.....	BRUSH BORDER PHASE OF DIGESTIVE-ABSORPTIVE FUNCTION.....	2R01 AM10696-10	97,893
CRANE, ROBERT K.....	BRUSH BORDER PHASE OF DIGESTIVE-ABSORPTIVE FUNCTION.....	5R01 AM10696-11	104,079
DUBIN, DONALD T.....	R-RNA & RIBOSOME SYNTHESIS IN BACTERIA & ANIMAL CELLS.....	2R01 GM14957-09	68,790
EDELMAN, NORMAN H.....	DETERMINANTS OF THE VENTILATORY RESPONSE TO HYPOXIA.....	5R01 HL16022-03	35,095
EGGER, M DAVID.....	NEUROANATOMICAL INVESTIGATIONS OF SPINAL INTERNEURONS.....	5R01 NS12261-02	17,296
EICHHOLZ, ALEXANDER.....	STUDY OF THE TRANSPORT OF SUGARS IN THE INTESTINE.....	5R01 AM17874-02	26,158
GELLER, HERBERT M.....	MECHANISMS OF INTERNEURONAL COMMUNICATION IN CULTURE.....	5R01 NS11295-03	18,913
GHOSH, BILAN K.....	PHYSIOLOGICAL ROLE OF MEMBRANE BOUND ALKALINE PHOSPHATES.....	5R01 GM21712-03	24,495
GOCKE, DAVID J.....	CORRELATIVE STUDIES IN VIRAL HEPATITIS.....	2R01 AI1593-04	69,065
HOLOWCZAK, JOHN A.....	TRANSCRIPTION & TRANSLATION IN POX VIRUS INFECTED CELLS.....	5R01 CA11027-08	44,339
HOLOWCZAK, JOHN A.....	TRANSCRIPTION & TRANSLATION IN POX VIRUS INFECTED CELLS.....	5R01 CA11027-09	47,640
LENARD, JOHN.....	CHARACTERIZATION OF VSV MUTANTS WITH MEMBRANE LESIONS.....	1R01 AI13002-01	39,883
MALAMED, SASHA.....	ADRENAL CELLS IN VITRO: ULTRASTRUCTURE AND STEROIDS.....	5R01 AM16833-03	18,538
MALATHI, PARAMESWARA.....	BRUSH BORDER-MEMBRANE ASSOCIATED ENZYMES.....	1R01 AM19217-01	29,359
MC ALLISTER, WILLIAM T.....	REGULATION OF VIRAL GENE EXPRESSION.....	5R01 GM21783-02	25,922
MORRIS, N RONALD.....	BASE ANALOGS AND TEMPLATE ACTIVITY.....	5R01 CA10665-09	78,847
MORRIS, N RONALD.....	GENETICS AND BIOCHEMISTRY OF MITOSIS IN ASPERGILLUS.....	1R01 GM23060-01	60,466
PROCKOP, DARWIN J.....	BIOCHEMISTRY OF NORMAL AND DISEASED CONNECTIVE TISSUE.....	2P01 AM16516-05	334,695
PROCKOP, DARWIN J.....	BIOCHEMISTRY OF NORMAL AND DISEASED CONNECTIVE TISSUE.....	5P01 AM16516-06	277,018
RASKOVA, JANA.....	IMMUNOPATHOLOGY OF CHRONIC RENAL FAILURE.....	5R01 AM16872-03	28,408
ROBINSON, ROBERT J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05576-12	104,985
ROISEN, FRED J.....	STUDIES ON NERVE DEVELOPMENT.....	5R01 NS11299-03	37,466
SANDERS, MARILYN M.....	CHROMOSOME STRUCTURE AND REGULATION IN DROSOPHILA.....	1R01 GM23119-01	62,052
SCHLESINGER, R WALTER.....	TOGAVIRUS REPLICATION IN INSECT AND VERTEBRATE CELLS.....	5R22 AI05920-14	118,334
SHEA, STEPHEN M.....	GLOMERULAR PATHOLOGY FOLLOWING PARTIAL NEPHRECTOMY.....	5R01 AM13495-07	45,084
SHIMAMURA, TETSUO.....	PATHOLOGY OF EXPERIMENTAL RENAL MEDULLARY LESIONS.....	3R01 AM14411-06S1	5,000
STEVENSON, NANCY R.....	FEEDING-INDUCED RHYTHMICITY IN INTESTINAL FUNCTION.....	1R01 AM18953-01	63,515
STOLLAR, VICTOR.....	METABOLISM AND BIOCHEMISTRY OF CULTURED MOSQUITO CELLS.....	5R01 AI11290-03	40,723
STROHL, WILLIAM A.....	VIRAL CARCINOGENESIS AND LATENCY.....	5R01 CA08851-13	96,225
TAKAHASHI, MARK T.....	REGULATION OF THREONINE-SENSITIVE ASPARTOKINASE ACTIVITY.....	5R01 GM18628-05	39,080
TAKAHASHI, MARK T.....	REGULATION OF THREONINE-SENSITIVE ASPARTOKINASE ACTIVITY.....	5R01 GM18628-06	36,919
WEISS, HARVEY R.....	NEW TECHNIQUE FOR REGIONAL O2 CONSUMPTION OF HEART.....	5R01 HL16134-03	35,708
WOLFF, DONALD J.....	FUNCTION OF A BRAIN CALCIUM-BINDING PROTEIN.....	5R01 NS11252-03	25,782
ORGANIZATION TOTAL	37	2,366,540	

## PRINCETON

<b>EDUCATIONAL TESTING SERVICE</b>		<b>ZIP CODE 08540</b>		
MESSICK, SAMUEL.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR05729-01		17,418
SIGEL, IRVING.....	SPACING/BIRTH ORDER EFFECTS ON COGNITIVE DEVELOPMENT.....	1R01 HD10686-01		173,298
ORGANIZATION TOTAL	2	190,716		

## PRINCETON UNIVERSITY ZIP CODE 08540

ALBERTS, BRUCE M.....	MECHANISMS OF GROWTH CONTROL IN MAMMALIAN CELLS.....	5R01 HD06855-04		52,970
APPLEBURY, MEREDITH L.....	PHOTORECEPTION AND TRANSDUCTION IN VISION.....	5R01 EY01542-02		47,737
BONNER, JOHN T.....	THE ROLE OF CYCLIC AMP IN DEVELOPMENT.....	5R01 GM17856-05		42,019
BRATZLER, ROBERT L.....	PROTEIN TRANSPORT THROUGH ARTERIAL TISSUE.....	1R01 HL18736-01		48,639
CAMPBELL, BYRON A.....	ANIMAL MODELS OF DECLINING MEMORY IN THE AGED.....	5R01 AG00092-02		83,904
COALE, ANSLEY J.....	POPULATION RESEARCH CENTER.....	5P30 HD08008-02		92,794
COALE, ANSLEY J.....	POPULATION RESEARCH CENTER.....	5P30 HD08008-03		105,524
COHEN, EDWARD H.....	ORGANIZATION AND EVOLUTION OF DROSOPHILA DNA.....	5R01 GM21786-02		41,174
COX, EDWARD C.....	MUTATOR GENES OF ESCHERICHIA COLI.....	2R01 AM09392-07		75,324
DOLS, MICHAEL W.....	PUBLICATION GRANT: THE BLACK DEATH IN THE MIDDLE EAST.....	1R01 LM02700-01		1,855
FRESCO, JACQUES R.....	CANCER CENTER SUPPORT GRANT (SPECIALIZED).....	1P30 CA18448-01		152,636
FRESCO, JACQUES R.....	MACROMOLECULAR ASPECTS OF RNA STRUCTURE AND FUNCTION.....	5R01 GM07654-16		102,228
FRESCO, JACQUES R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07057-11		117,159



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW JERSEY—Continued</b>			
GELFAND, TOBY.....	THE RISE OF SURGERY.....	1R01 LM02794-01	29,152
GILVARG, CHARLES.....	FUNCTIONS OF THE LYSINE PATHWAY.....	5R01 AI11756-11	42,302
GILVARG, CHARLES.....	FUNCTIONS OF THE LYSINE PATHWAY.....	5R01 AI11756-12	36,647
GILVARG, CHARLES.....	PEPTIDE UTILIZATION.....	5R01 AM10336-11	46,506
GOULD, JAMES L.....	GENETIC CONTROL OF BEHAVIOR.....	1R01 GM22692-01	32,820
KIRSCHNER, MARC W.....	BIOCHEMICAL STUDIES OF MITOSIS.....	2R01 GM19667-04	107,134
LAENMLI, ULRICH K.....	HEAD MATURATION AND DNA PACKAGING OF BACTERIOPHAGE T4.....	5R01 GM18776-05	47,059
LANGRIDGE, ROBERT.....	MOLECULAR STRUCTURES IN NORMAL AND TUMOR CELLS.....	5R01 GM21582-02	90,181
LEVINE, ARNOLD J.....	DNA REPLICATION IN SV40 INFECTED CELLS.....	2R01 CA11049-08	85,159
LEVINE, ARNOLD J.....	REGULATION OF DEOXYPYRIMIDINE KINASES BY TUMOR VIRUSES.....	5R01 CA16380-02	21,064
NEWTON, AUSTIN.....	REGULATION OF DEVELOPMENT IN CAULOBACTER CRESCENTUS.....	5R01 GM22299-02	52,063
NORTON, JACK R.....	A GENERAL CATALYTIC SYNTHESIS OF ANTICANCER LACTONES.....	5R01 CA18546-02	40,947
PAVLIDIS, THEODOSIOS.....	MATHEMATICAL STUDY OF CIRCADIAN RHYTHMS.....	5R01 GM20289-02	42,137
SANDERS, THOMAS G.....	Y CHROMOSOME STRUCTURE AND REGULATION IN DROSOPHILA.....	5R01 GM20770-03	37,283
SHERRICK, CARL E.....	THE ROLE OF THE HAPTIC SYSTEM IN COMMUNICATION.....	5R01 NS04755-13	101,930
SHERRICK, CARL E.....	THE ROLE OF THE HAPTIC SYSTEM IN COMMUNICATION.....	5R01 NS04755-14	108,593
SNIDER, BARRY B.....	NEW SYNTHETIC APPLICATIONS OF THE ENE REACTION.....	1R01 GM23159-01	48,503
SPIRO, THOMAS G.....	METAL CENTERS IN BIOLOGICAL SYSTEMS.....	5R01 GM13498-11	52,353
SPIRO, THOMAS G.....	RAMAN SPECTRA OF HEME PROTEINS AND RELATED MOLECULES.....	3R01 HL12526-06S1	35,932
SPIRO, THOMAS G.....	RAMAN SPECTRA OF HEME PROTEINS AND RELATED MOLECULES.....	2R01 HL12526-07	137,808
SPIRO, THOMAS G.....	RAMAN SPECTRA OF HEME PROTEINS AND RELATED MOLECULES.....	5R01 HL12526-08	73,695
STEINBERG, MALCOLM S.....	CHEMISTRY AND MEASUREMENT OF INTERCELLULAR ADHESION.....	5R01 CA13605-05	120,820
TAYLOR, EDWARD C.....	CHEMICAL AND BIOCHEMICAL STUDIES OF PTERIDINES.....	5R01 CA12876-05	116,489
WEINTRAUB, HAROLD M.....	THE COMPLEXITY OF CHROMOSOME STRUCTURE AND ASSEMBLY.....	1R01 GM22444-01	63,677
WEVER, ERNEST G.....	THE NATURE OF HEARING.....	5P01 NS03798-14	191,740
WITMAN, GEORGE BODO, III.....	MOLECULAR MECHANISM OF FLAGELLA MOTILITY AND ASSEMBLY.....	5R01 GM21586-02	39,616
WORCEL, ABRAHAM.....	CHROMOSOME STRUCTURE IN INTERPHASE AND MITOSIS.....	5R01 GM21574-02	68,438
ORGANIZATION TOTAL	40	2,834,011	
<b>SKILLMAN</b>			
NEW JERSEY STATE DEPARTMENT OF INSTITUTIONS AND AGENCIES—NEW JERSEY NEUROPSYCHIATRIC INSTITUTE		ZIP CODE 08558	
HADDAD, RAEF K.....	CNS TERATOLOGY AND MENTAL DEFICIENCY.....	5R01 HD08346-03	51,648
ORGANIZATION TOTAL	1	51,648	
<b>SOUTH ORANGE</b>			
SETON HALL UNIVERSITY		ZIP CODE 07079	
ANDER, PAUL.....	COION INTERACTIONS WITH BIOLOGICAL POLYELECTROLYTES.....	5R01 GM21234-02	15,700
ORGANIZATION TOTAL	1	15,700	
<b>TEANECK</b>			
FAIRLEIGH DICKINSON UNIVERSITY		ZIP CODE 07666	
ALFANO, MICHAEL C.....	NUTRITIONAL MODULATION OF ORAL MUCOSAL PERMEABILITY.....	5R23 DE04228-02	10,811
ALFANO, MICHAEL C.....	MODIFICATION OF PERMEABILITY OF THE GINGIVAL CREVICE.....	1R01 DE04480-01	70,846
ORGANIZATION TOTAL	2	81,657	
<b>THOROFARE</b>			
AMERICAN GASTROENTEROLOGICAL ASSOCIATION		ZIP CODE 08066	
KERN, FRED, JR.....	RESEARCH WORKSHOPS IN GASTROENTEROLOGY.....	1R13 AM19726-01	29,400
ORGANIZATION TOTAL	1	29,400	
STATE TOTAL	194	11,674,474	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW MEXICO</b>			
<b>ALBUQUERQUE</b>			
<b>UNIVERSITY OF ALBUQUERQUE</b>	<b>ZIP CODE 87140</b>		
PFEIFER, CHARLES H. JR.	MINORITY STUDENT BIOMEDICAL RESEARCH TRAINING PROGRAM	5S06 RR08108-04	90,595
ORGANIZATION TOTAL	1	90,595	
<b>UNIVERSITY OF NEW MEXICO</b>	<b>ZIP CODE 87131</b>		
ALLEN, FRITZ S.	BASE SITES OF ANTITUMOR ANTIBIOTIC DNA BINDINGS BY CD	3R01 CA14495-02S1	16,637
ANDERSON, ROBERT E.	RADIATION INJURY IN SUBPOPULATIONS OF LYMPHOCYTES	2R01 CA13805-04	40,155
ANDERSON, ROBERT E.	IMMUNE SURVEILLANCE IN RADIATION CARCINOGENESIS	5R01 CA14270-04	29,985
ANDERSON, ROBERT E.	COMPUTER-ASSISTED ANALYSIS OF IRRADIATED LYMPHOCYTES	5R01 CA15593-03	38,099
BANKHURST, ARTHUR D.	LYMPHOCYTE HETEROGENEITY IN THE RHEUMATIC DISEASES	1R01 AM18487-01	36,157
BUECHLEY, ROBERT W.	CANCER INCIDENCE IN NEW MEXICO INDIANS AND SPANISH	1R01 CA19710-01	44,510
CUSHING, ALICE H.	'PATHOGENIC' E. COLI IN SPORADIC INFANTILE DIARRHEA	5R22 AI12216-02	57,622
DAUB, GUIDO H.	13C-ENRICHED CHEMICAL CARCINOGENS	1R01 CA16871-01A1	76,040
EATON, R. PHILIP	LIPOPROTEIN-CARBOHYDRATE METABOLISM	5R01 HL12085-08	56,342
EVAN, ANDREW P.	RENAL PAH TRANSPORT DURING DEVELOPMENT	1R01 HD10214-01	34,227
GALEY, WILLIAM R. JR.	MECHANISMS OF PANCREATIC ELECTROLYTE AND H2O SECRETION	5R01 AM17843-02	34,871
GARDNER, KENNETH D. JR.	COMPARATIVE STUDY OF RENAL CYSTIC DISEASES IN RATS	5R01 AM17641-02	52,975
GREENBERG, ROBERT E.	HEPATIC GLUCOSE PRODUCTION DURING DEVELOPMENT	7R01 HD10353-01	44,653
HOLLSTEIN, ULRICH	ACTINOMYCIN ANALOG WITH PHENAZINE SKELETON	5R01 CA16344-02	28,522
HURWITZ, LEON	ACTION OF VASCULAR AND OTHER SMOOTH MUSCLE INHIBITORS	5R01 HL16179-03	50,725
JOHNSON, PEDER J.	INFLUENCE OF STRATEGIES IN CHILDREN'S COGNITIVE FUNCTION	5R01 HD03390-08	20,592
KELLEY, ROBERT O.	BIOLOGY OF THE AGING CELL SURFACE	5R01 AG00191-02	34,795
KLIGERMAN, MORTON M.	PRECLINICAL STUDIES FOR PION RADIOTHERAPY	3P01 CA14052-02S1	489
KLIGERMAN, MORTON M.	PRECLINICAL STUDIES FOR PION RADIOTHERAPY	2P01 CA14052-04	1,071,399
KLIGERMAN, MORTON M.	CANCER RESEARCH AND TREATMENT CENTER PROGRAM	5P01 CA16127-03	1,295,445
KLINGLER, EUGENE L. JR.	RADIATION NEPHRITIS IN A NONHUMAN PRIMATE	5R01 CA14771-03	50,990
KOGOMA, TOKIO	DNA REPLICATION IN BACTERIA: REGULATORY MUTANTS	5R01 GM22092-02	20,159
LOTFIELD, ROBERT B.	PROTEIN BIOSYNTHESIS	5R01 CA08000-12	62,088
MESSNER, RONALD P.	ANTIBODIES AND LYMPHOCYTE FUNCTION IN LUPUS FAMILIES	2R01 AM13789-07	64,536
MORROW, CARY J.	GAS CHROMATOGRAPHIC RESOLUTION OF ENANTIOMERS	1R01 GM23204-01	35,152
NAPOKITANO, LEONARD M.	THE FINE STRUCTURE AND LOCALIZATION OF CHOLESTEROL	5R01 AM09432-12	52,470
NAPOKITANO, LEONARD M.	GENERAL CLINICAL RESEARCH CENTER	1M01 RR00997-01	276,716
NAPOKITANO, LEONARD M.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05583-12	158,581
OMDAHL, JOHN L.	VITAMIN D ACTION: EFFECT OF MINERALS	5R01 AM16905-03	28,164
PEAKE, GLENN T.	SOMATOTROPE METABOLISM AND LACTOTROPE METABOLISM	5R01 HD05794-05	49,252
POLLAY, MICHAEL	TRANSCAPILLARY EXCHANGE IN EXPERIMENTAL BRAIN TUMORS	2R01 CA14910-04	16,727
PRIOLA, DONALD V.	INTRINSIC INNERVATION OF THE HEART	1R01 HL18517-01	43,674
PRIOLA, DONALD V.	INTRINSIC INNERVATION OF THE HEART	5R01 HL18517-02	47,548
RADLOFF, ROGER J.	POLYPEPTIDE CLEAVAGE DURING EMC VIRUS SYNTHESIS	5R01 AI11658-02	1,880
RADLOFF, ROGER J.	POLYPEPTIDE CLEAVAGE DURING EMC VIRUS SYNTHESIS	5R01 AI11658-03	19,232
RATNER, ALBERT	ADRENERGIC CONTROL OF OVARIAN STEROIDOGENESIS	1R01 HD09475-01A1	42,235
REYES, PHILIP	PYRIMIDINE SYNTHESIS IN NORMAL AND NEOPLASTIC TISSUE	2R01 CA15036-04	50,755
SAIKI, JOHN H.	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	5R10 CA12213-05	106,993
SCALLEN, TERENCE J.	LIPID METABOLISM IN BIOLOGICAL SYSTEMS	5R01 AM10628-11	106,496
SCALLEN, TERENCE J.	CHOLESTEROL REGULATION BY HMG-COA REDUCTASE	5R01 HL16796-03	45,729
TAPSCOTT, ROBERT E.	CHELATE ISOMERISM WITH MESO AND PROCHIRAL LIGANDS	1R01 GM22435-01	27,670
TOKUDA, SEI.	IMMUNOBIOLOGY OF THE H-Y (MALE) ANTIGENIC SYSTEM	5R01 AM11560-03	25,072
TOKUDA, SEI.	IMMUNOLOGICAL ENHANCEMENT OF SARCOMA I TUMOR CELLS	5R01 CA10129-10	31,159
TOKUDA, SEI.	BIOMEDICAL SCIENCES ADVANCEMENT PROGRAM	5S06 RR08139-02	276,990
TOKUDA, SEI.	BIOMEDICAL SCIENCES ADVANCEMENT PROGRAM	5S06 RR08139-03	345,017
TUNG, KENNETH S.	EFFECT OF SPERM ANTIGEN ON REPRODUCTIVE BIOLOGY	5R01 HD07591-04	54,133
VAN EPPS, DENNIS E.	PHAGOCYTIC CELLS: REGULATION, DYSFUNCTION AND DISEASE	1R01 CA20819-01	48,457
VANDERJAGT, DAVID L.	COMPARATIVE ENZYMOLOGY OF THE GLYOXALASE SYSTEM	5R01 AM11850-06	25,221
VANDERJAGT, DAVID L.	GLUTATHIONE METABOLISM IN NORMAL AND ABNORMAL TISSUE	5R01 CA17298-02	21,432
VORHERR, HELMUTH W.	DES-INDUCED TRANSPLENTAL CARCINOGENESIS	1R01 CA19563-01	34,675
WATERMAN, ROBERT E.	STUDIES OF HUMAN SECONDARY PALATE FORMATION	5R01 DE03897-03	28,747
WATTS, RICHARD S.	EXTERNAL ISOTOPE ASSAY OF ATHEROSCLEROSIS	3R01 HL14826-03S1	260

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW MEXICO—Continued</b>			
WATTS, RICHARD S.....	EXTERNAL ISOTOPE ASSAY OF ANIMAL ATHEROSCLEROSIS.....	2R01 HL14826-04	24,594
WILLIAMS, RALPH C, JR.....	IMMUNOLOGICAL STUDIES.....	1P01 AI13433-01	96,036
WILLIAMS, RALPH C, JR.....	STUDIES OF AUTOANTIBODIES AND IMMUNOGLOBULINS.....	2R01 AM13690-08	82,967
WILLIAMS, RALPH C, JR.....	INTERACTIONS OF CELLULAR AND HUMORAL IMMUNITY.....	5R01 AM13824-07	68,761
WOOD, STEPHEN C.....	RESPIRATORY FUNCTION REGULATION IN NUCLEATED RED CELLS.....	5R01 HL18026-02	7,213
ORGANIZATION TOTAL	57 5,542,021		
<b>LAS VEGAS</b>			
<b>NEW MEXICO HIGHLANDS UNIVERSITY ZIP CODE 87701</b>			
ANSELMO, VINCENT C.....	COORDINATED RESEARCH AND TRAINING PROGRAM.....	5S06 RR08066-05	134,268
ORGANIZATION TOTAL	1 134,268		
<b>PORTALES</b>			
<b>EASTERN NEW MEXICO UNIVERSITY ZIP CODE 88130</b>			
IRWIN-WILLIAMS, CYNTHIA C.....	EFFECTS OF ENVIRONMENTAL STRESS ON RURAL POPULATIONS.....	1R01 HD09417-01	85,876
ORGANIZATION TOTAL	1 85,876		
<b>UNIVERSITY PARK</b>			
<b>NEW MEXICO STATE UNIVERSITY MAIN CAMPUS ZIP CODE 88001</b>			
BIRNBAUM, EDWARD R.....	LANTHANIDE IONS AS PROBES OF PROTEIN STRUCTURE.....	2R01 AM16582-04	48,263
CASILLAS, EDMUND R.....	CARNITINE AND CAMP IN MATURING MAMMALIAN SPERM.....	1R01 HD10664-01	58,754
DARNALL, DENNIS W.....	SUBUNIT INTERACTIONS AND CONTACT SITES IN PROTEINS.....	5R01 GM22241-02	32,772
DARNALL, DENNIS W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR07154-01	33,207
HAGEMAN, JAMES H.....	PROTEASE AND PROTEOLYSIS IN BACTERIAL SPOULATION.....	2R01 GM19643-04	40,673
KUEHN, GLENN D.....	CELL CYCLE STUDIES IN PHYSARUM POLYCEPHALUM.....	5R01 GM18538-05	22,247
KUEHN, GLENN D.....	CELL CYCLE STUDIES IN PHYSARUM POLYCEPHALUM.....	5R01 GM18538-06	26,513
KUEHN, GLENN D.....	HEALTH SCIENCE RESEARCH FOR MINORITY STUDENTS.....	5S06 RR08136-02	173,176
KUEHN, GLENN D.....	HEALTH SCIENCE RESEARCH FOR MINORITY STUDENTS.....	5S06 RR08136-03	172,505
LWOWSKI, WALTER.....	CYCLIC AMINIMIDES AS ALKYLATING AGENTS, II.....	2R01 CA12816-08	43,854
MC CARTHY, CHARLOTTE M.....	CELL DIVISION IN MYCOBACTERIUM AVIUM.....	5R01 AI11171-04	21,851
VILLA, VICENTE D.....	RIBOSOME-MEMBRANE INTERACTION IN MITOCHONDRIA.....	5R01 GM20449-03	24,052
WILKINS, RALPH G.....	KINETIC STUDIES OF HEMERYTHRIN REACTIONS.....	5R01 HL17828-02	35,701
ORGANIZATION TOTAL	13 733,568		
STATE TOTAL	73 6,586,328		
<b>NEW YORK</b>			
<b>ALBANY</b>			
<b>NEW YORK STATE DEPARTMENT OF HEALTH ZIP CODE 12237</b>			
BERNS, DONALD S.....	BILIPROTEIN AND CHLOROPHYLL-LIPID MEMBRANE STUDIES.....	5R01 GM22247-02	33,572
CHATTERJEE, NANDO K.....	PROCESSING AND TRANSLATION OF GROUP C ADENOVIRUS HNRNA.....	1R01 CA19707-01	50,360
DICKERMAN, HERBERT W.....	MECHANISMS OF ANDROGEN EFFECT ON ERYTHROID DEVELOPMENT.....	1R01 AM19253-01	30,045
DODDS, W JEAN.....	COMPARATIVE STUDY OF COAGULATION AND VASCULAR DISEASE.....	5R01 HL09902-11	192,288
FENTON, JOHN W, II.....	HUMAN THROMBIN.....	5R01 HL13160-06	36,042
FLAHERTY, LORRAINE.....	IMMUNOGENETICS AND DIFFERENTIATION.....	5R01 AI12603-02	40,471
GREENWALD, PETER.....	CANCER EPIDEMIOLOGY PROGRAM GRANT.....	5P01 CA12707-05	295,339
KAMINSKY, LAURENCE S.....	HEPATIC MICROSOMAL ENZYME METABOLISM OF ANESTHETICS.....	1R01 GM23029-01	32,037
KIM, CARL S.....	MOLECULAR BASIS OF BILIRUBIN TOXICITY.....	1R01 HD10319-01	25,419
LAWSON, WILLIAM B.....	ENZYME MODIFICATION WITH BIFUNCTIONAL INHIBITORS.....	5R01 AM05299-15	52,721
LAWSON, WILLIAM B.....	ENZYMES OF BLOOD COAGULATION AND FIBRINOLYSIS.....	5R01 HL15887-03	16,579
MALEY, GLADYS F.....	REGULATORY PROCESSES AFFECTING ENZYME ACTIVITY.....	5R01 GM20371-03	8,999
MELWISSEN, HILAIRE J.....	ADENOSINE DEAMINASE DEFICIENCY IN IMMUNOLOGICAL DISEASE.....	5R01 AI11717-03	38,227



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
PARSONS, DONALD F.....	FUNDAMENTAL STUDIES ON BIOLOGICAL ELECTRON IMAGING.....	7R01 GM23727-01	68,164
PLUMMER, THOMAS H, JR.....	COMPARATIVE STUDIES ON HUMAN CARBOXYPEPTIDASES.....	5R01 GM11764-11	35,623
POLLARA, BERNARD.....	SPECIFICITY OF HUMAN NEPHROTOXIC ANTIGENS.....	5R01 AM18158-06	105,542
VANDERLINDE, RAYMOND E.....	OPTIMIZED INTERLABORATORY ENZYME ASSAYS: LDH, ASPAT.....	5R01 GM20878-02	41,629
VIANNA, NICHOLAS J.....	EPIDEMIOLOGICAL STUDY OF LYMPHOPROLIFERATIVE DISORDERS.....	3R01 CA13893-03S1	46,555
VIANNA, NICHOLAS J.....	PRIOR TONSILLECTOMY AND MALIGNANT LYMPHOMAS.....	1R01 CA19637-01	99,029
WARREN, WILLIAM A.....	ENZYMATIC AND NONENZYMATIC REACTIONS OF GLYOXYLATE.....	5R01 AM17551-04	26,184
WARREN, WILLIAM A.....	FACTORS IN MAST TUMOR IMPLANTATION AND GROWTH.....	5R01 CA17099-03	59,829
WHALEN, ROBERT P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05649-10	89,445
WOLIN, MEYER J.....	FERMENTATION INTERACTIONS IN MICROBIAL ECOSYSTEMS.....	2R01 AI12461-02	67,491
WOLIN, MEYER J.....	FERMENTATION INTERACTIONS IN MICROBIAL ECOSYSTEMS.....	5R01 AI12461-03	67,770
ORGANIZATION TOTAL	24	1,559,760	
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE ZIP CODE 12229</b>			
BELMONT, LILLIAN.....	BIRTH ORDER, FAMILY SIZE AND INTELLIGENCE.....	5R01 HD06808-04	39,540
BROCKERHOFF, HANS.....	ROLE OF CHOLESTEROL IN BIOLOGICAL MEMBRANES.....	5R01 GM21875-02	67,850
FABER, DONALD S.....	VERTEBRATE NEURONAL INTERACTIONS AND ELECTROGENESIS.....	5R01 NS12132-02	18,153
FABER, DONALD S.....	VERTEBRATE NEURONAL INTERACTIONS AND ELECTROGENESIS.....	2R01 NS12132-03	44,426
MARKS, NEVILLE.....	BRAIN ENZYMES AND INACTIVATION OF PEPTIDYL HORMONES.....	1R01 NS12578-01	36,614
ORGANIZATION TOTAL	5	206,583	
<b>STATE UNIVERSITY OF NEW YORK AT ALBANY ZIP CODE 12222</b>			
BAGLIONI, CORRADO.....	STRUCTURE AND SYNTHESIS OF IMMUNOGLOBULINS.....	5R01 AI11887-03	115,104
BAGLIONI, CORRADO.....	SELECTIVE REPLICATION OF HEMOGLOBIN GENES.....	2R01 HL17710-02	79,807
DAS, TARA P.....	THEORY OF ELECTRONIC PROPERTIES OF METALLOPROTEINS.....	5R01 HL15196-04	34,493
EADON, GEORGE A.....	STRUCTURE DETERMINATION BY MASS SPECTROMETRY.....	5R01 GM20003-02	12,208
EDWARDS, CHARLES.....	PHYSIOLOGY OF MUSCLE FUNCTIONS.....	5R01 NS07681-09	42,848
EDWARDS, DAVID L.....	MOLECULAR GENETICS OF MEMBRANE ASSEMBLY IN NEUROSPORA.....	5R01 GM19410-05	51,642
HIRSCH, HELMUT V B.....	DEVELOPMENT AND FUNCTIONS OF THE VISUAL CORTEX.....	3R01 EY01268-03S1	7,875
HIRSCH, HELMUT V B.....	DEVELOPMENT AND FUNCTIONS OF THE VISUAL CORTEX.....	2R01 EY01268-04	45,683
IZZARD, COLIN S.....	CONTROL OF CALCIUM LEVELS IN FIBROBLAST MOTILITY.....	5R01 GM20582-03	39,159
JACKLET, JON W.....	PERIPHERAL AND CENTRAL MODULATION OF SPECIFIC NEURONS.....	5R01 NS08443-08	45,040
KING, TSOO E.....	BIOENERGETICS OF AGING: FACTS AND MECHANISMS.....	5R01 AG00069-02	58,655
KING, TSOO E.....	RECONSTITUTION OF MITOCHONDRIAL RESPIRATORY CHAIN.....	5R01 GM16767-08	41,833
KING, TSOO E.....	RECONSTITUTION OF MITOCHONDRIAL RESPIRATORY CHAIN.....	5R01 GM16767-09	49,124
KING, TSOO E.....	BIOENERGETIC APPARATUS IN HEART MITOCHONDRIA.....	5R01 HL12576-08	95,644
LERMAN, LEONARD S.....	REGULATION AND CHARACTERIZATION OF THE HUMAN GENOME.....	1R01 GM24030-01	75,914
MILLIS, ALBERT J.....	REGULATION OF HUMAN AND MAMMALIAN CELL PROLIFERATION.....	5R01 HD09515-02	47,249
MURPHEY, RODNEY K.....	GROWTH OF IDENTIFIED NEURONS: EFFECT OF DEPRIVATION.....	7R01 NS12957-01	10,377
RIMMENSPOEL, ROBERT.....	CONTROL OF SPERM MOTILITY.....	5R01 HD08752-02	52,267
SARMA, RAMASWAMY H.....	MAGNETIC RESONANCE STUDIES OF BIOLOGICAL INTERACTIONS.....	5R01 CA12462-06	45,033
SATURNO, ANTONY F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07122-08	55,639
SAUNDERS, JOHN W, JR.....	CONTROL OF LIMB DEVELOPMENT AND DEFORMITY.....	5R01 HD07390-03	80,197
SCHOLES, CHARLES P.....	ELECTRON NUCLEAR DOUBLE RESONANCE OF HEME.....	5R01 AM17884-02	39,177
SHUB, DAVID A.....	REGULATION OF DEVELOPMENT OF BACTERIOPHAGE SPO1.....	2R01 AI11323-04	63,679
VELLUTINO, FRANK R.....	VERBAL PROCESSING IN POOR AND NORMAL READERS.....	1R01 HD09658-01	88,047
ZUBIETA, JON A.....	MOLYBDENUM-SULFUR COMPOUNDS AS NITROGENASE MODELS.....	1R01 GM22566-01	35,222
ORGANIZATION TOTAL	25	1,312,516	
<b>UNION COLLEGE AND UNIVERSITY SYSTEM—ALBANY MEDICAL COLLEGE ZIP CODE 12208</b>			
ALLEN, S H.....	PRODUCTION OF PROPIONIC ACID BY ORAL MICROORGANISMS.....	5R01 DE04284-02	25,010
BALINT, JOHN A.....	METABOLISM OF PULMONARY SURFACTANT.....	2R01 HL15273-04A1	49,609
BARRON, KEVIN D.....	ENZYME HISTOCHEMISTRY OF AXON INJURY.....	5R01 NS08735-08	35,031
BONDURANT, STUART.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00749-04	261,530
BONDURANT, STUART.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05394-15	167,669
BOURKE, ROBERT S.....	TREATMENT OF MALIGNANT DISEASE OF THE BRAIN.....	5R01 CA17516-03	104,547
BOURKE, ROBERT S.....	BRAIN AND SPINAL CORD TRAUMA.....	1P50 NS13042-01	236,396
CALIGUIRI, LAWRENCE A.....	SYNTHESIS AND REGULATION OF VIRAL RNA.....	5R01 AI11913-02	60,417
COULSTON, FREDERICK.....	COMPARATIVE ENVIRONMENTAL TOXICOLOGY.....	5P01 ES00226-10	318,608
COWGER, MARILYN L.....	BIOENERGETICS OF AGING: FACTS AND MECHANISM.....	3R01 AG00070-01S1	2,505



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
COWGER, MARILYN L.....	BIOENERGETICS OF AGING: FACTS AND MECHANISM.....	5R01 AG00070-02	41,587
COWGER, MARILYN L.....	MECHANISM OF BILIRUBIN TOXICITY.....	2R01 HD05333-06	59,307
COWGER, MARILYN L.....	MECHANISM OF BILIRUBIN TOXICITY.....	5R01 HD05333-07	60,170
CUNNINGHAM, THOMAS J.....	COOPERATIVE STUDY OF ONCOLOGY.....	5R10 CA06594-14	153,650
CUNNINGHAM, THOMAS J.....	CLINICAL CANCER EDUCATION.....	5R25 CA17971-02	75,144
DOYLE, JOSEPH T.....	PROGNOSTICATION BY COMPUTER-ANALYZED VECTORCARDIOGRAM.....	5R01 HL16403-03	25,470
DUTTON, ROBERT E, JR.....	CONTROL OF RESPIRATION AND BLOOD GASES.....	5R01 HL12564-07	76,514
FULLER, GENE B.....	ESTROGEN-STIMULATED PROGESTERONE SYNTHESIS IN-VITRO.....	5R01 HD09278-02	22,539
HALL, CHARLES A.....	TRANSCOBALAMIN II IN THE TRANSPORT OF VITAMIN B-12.....	5R01 AM17767-03	11,806
HAN, JAOK.....	EXPERIMENTAL CARDIAC ARRHYTHMIAS.....	5R01 HL18796-02	57,370
HOOK, ERNEST B.....	ENVIRONMENTAL FACTORS RELATED TO CHROMOSOME DAMAGE.....	5R01 ES01207-02	32,981
HOOK, ERNEST B.....	EPIDEMIOLOGY OF VOMITING IN PREGNANCY.....	5R01 HD09374-02	59,897
LAM, KWOK-WAI.....	BIOCHEMISTRY AND CYTOLOGY OF SUBRETINAL FLUIDS.....	5R01 EY01464-02	44,202
LAM, KWOK-WAI.....	BIOCHEMICAL STUDIES OF ACID PHOSPHATASE 5.....	5R01 GM22260-02	35,514
LAWRENCE, DAVID A.....	ANTIGEN-ACTIVATION OF THYMUS-DERIVED LYMPHOCYTES.....	5R01 A112527-02	45,631
LEE, PEI-FEI.....	STUDY OF LASER-BASED SURGICAL PROCEDURE FOR GLAUCOMA.....	5R01 EY01047-03	48,295
LEE, PEI-FEI.....	COLLAGEN TUBES FOR AQUEOUS-VEINOUS SHUNT.....	5R01 EY01164-02	35,195
LOEGERING, DANIEL J.....	MECHANISM OF RETICULOENDOTHELIAL FAILURE IN SHOCK.....	5R01 HL18051-02	25,927
LOOSE, LELAND D.....	MACROPHAGE MEDIATED MALARIAL IMMUNOSUPPRESSION.....	5R01 A112839-02	25,795
LUDLUM, DAVID B.....	MOLECULAR PHARMACOLOGY OF THE NITROSOUREAS.....	7R01 CA20129-01	57,210
LUDLUM, DAVID B.....	MUTAGENIC ALTERATIONS IN NUCLEIC ACID STRUCTURE.....	7R01 CA20292-01	57,472
MALIK, ASRAR B.....	PULMONARY VASCULAR ADJUSTMENTS IN CIRCULATORY COLLAPSE.....	5R01 HL17355-02	27,083
MC KNEALLY, MARTIN F.....	SURGERY AND REGIONAL NODE STIMULATION FOR LUNG CANCER.....	5R01 CA17346-02	18,546
MC SHARRY, JAMES J.....	BIOCHEMICAL ANALYSIS OF VIRAL ENVELOPE PROTEINS.....	5R01 A11877-03	28,518
POULOS, DENNIS A.....	CENTRAL PROCESSING OF TEMPERATURE INFORMATION.....	5R01 NS11384-03	25,950
POWERS, SAMUEL R, JR.....	ON-LINE COMPUTER STUDY OF THERAPY FOR HUMAN SHOCK.....	5P50 GM15426-09	200,394
REINECKE, ROBERT D.....	STEREOPSIS AND MICROPTROPIA IN AMBLYOPIA PATHOGENESIS.....	2R01 EY00752-05	53,279
REINECKE, ROBERT D.....	SUPPORT FOR CONFERENCE ON VISION.....	5R13 EY01371-03	10,492
RODGERS, JOHN B, JR.....	USE OF THE GUT FOR THERAPY OF CORONARY ARTERY DISEASE.....	5R01 HL17332-02	55,151
RODGERS, JOHN B, JR.....	USE OF THE GUT FOR THERAPY OF CORONARY ARTERY DISEASE.....	5R01 HL17332-03	58,217
SABA, THOMAS M.....	OPSONIC AND PHAGOCYTIC ACTIVITY DURING TUMOR GROWTH.....	5R01 CA16011-02	23,375
SABA, THOMAS M.....	SYSTEMIC HOST DEFENSE FOLLOWING TRAUMA.....	5R01 GM21447-02	48,761
SARFEH, I JAMES.....	A COMPARATIVE STUDY OF THE MAJOR HUMAN BILE SALTS.....	1R01 AM18765-01	36,335
SCHELL, RONALD F.....	SPECIFIC IMMUNE REACTIVITY TO SYPHILITIC INFECTION.....	1R01 A113307-01	44,612
SMITH, RICHARD S.....	ULTRASTRUCTURAL STUDY OF OCULAR VASCULAR PERMEABILITY.....	2R01 EY00538-07	52,537
STROMINGER, NORMAN L.....	NEUROANATOMICAL CIRCUITS OF SOMATIC MOTOR FUNCTION.....	5R01 NS12208-02	27,586
THOMAS, WILBUR A.....	CENTER FOR PREVENTION & TREATMENT OF ATHEROSCLEROSIS.....	3P50 HL14177-05S1	425,817
TSAPOGAS, MAKIS J.....	THROMBOLYTIC THERAPY IN RETINAL VASCULAR OCCLUSION.....	5R01 EY00794-03	6,765
TURINSKY, JIRI.....	THE MECHANISM OF INSULIN RESISTANCE AFTER BURNS.....	1R01 GM22825-01	34,832
VAN HEUVEN, WICHARD A.....	DEVELOPMENT OF SYSTEM TO STUDY OCULAR VASCULAR DYNAMICS.....	5R01 EY00791-05	41,498
WONG, PATRICK Y.....	STUDY OF KININS IN HYPERTENSION AND OTHER DISEASES.....	1R01 HL18624-01	42,062
ZWAAN, JOHAN.....	DEVELOPMENT AND GROWTH OF THE LENS.....	5R01 EY01694-02	55,309
ORGANIZATION TOTAL	52 3,630,117		
<b>BINGHAMTON</b>			
STATE UNIVERSITY OF NEW YORK AT BINGHAMTON ZIP CODE 13901			
DONOVICK, PETER J.....	NUTRITION, EXPERIENCE, CNS LESIONS: AGE AND BEHAVIOR.....	5R01 HD08498-02	10,249
FRANKEL, ARTHUR I.....	REGULATION OF REPRODUCTION IN THE MALE.....	5R01 HD04081-07	55,706
HASSNER, ALFRED.....	SYNTHESIS AND REACTIONS OF NOVEL HETEROCYCLES.....	7R01 CA19203-01	46,053
HASSNER, ALFRED.....	SYNTHESIS AND REACTIONS OF NOVEL HETEROCYCLES.....	5R01 CA19203-02	53,141
JENSEN, ROY A.....	MOLECULAR BASIS FOR ALTERNATIVE ALLOSTERIC PATTERNS.....	7R01 AM19447-01	57,469
KULL, FREDRICK J.....	RNA-10D0-PROTEINACEOUS COMPLEXES OF THYROID.....	5R01 AM15292-03	20,938
PASTORE, RICHARD E.....	AUDITORY ATTENTION: TEMPORAL & FREQUENCY EFFECTS.....	5R01 NS10995-02	27,922
SCHRIER, EUGENE E.....	THE EFFECTS OF SALTS ON INTERACTIONS IN AQUEOUS MEDIA.....	5R01 GM11762-12	41,019
SCOBIE, STANLEY R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07149-03	22,946
SHRIFT, ALEX.....	SELENIUM TOXICITY: ROLE OF METHIONYL-TRNA SYNTHETASES.....	5R01 ES00807-03	37,607
ORGANIZATION TOTAL	10 373,050		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>BRIARCLIFF MANOR</b>			
<b>BRIARCLIFF COLLEGE</b>	<b>ZIP CODE 10510</b>		
RUFF, HOLLY A.....	THE DEVELOPMENT OF OBJECT PERCEPTION IN HUMAN INFANTS.....	2R01 HD08242-02	28,977
RUFF, HOLLY A.....	THE DEVELOPMENT OF OBJECT PERCEPTION IN HUMAN INFANTS.....	5R01 HD08242-03	33,247
ORGANIZATION TOTAL	2 62,224		
<b>BUFFALO</b>			
<b>CHILDREN'S HOSPITAL</b>	<b>ZIP CODE 14222</b>		
ELLIS, ELLIOT F.....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN.....	5M01 RR00628-06	100
ELLIS, ELLIOT F.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05493-14	46,537
MAGILLIVRAY, MARGARET H.....	HORMONES, BLOOD GLUCOSE AND LIPIDS IN DIABETIC CHILDREN.....	1R01 AM17879-01A1	92,804
NETER, ERWIN.....	STUDY OF BACTERIAL TOXINS AND HEMAGGLUTINATION.....	2R01 AI00658-20	36,677
OGRA, PEARAY L.....	ARTHRITIS AND RUBELLA VIRUS INFECTION.....	5R01 AM17050-02	41,002
OGRA, PEARAY L.....	ETIOLOGIC ASPECTS OF SUDDEN INFANT DEATH SYNDROME.....	1R01 HD10088-01	90,612
PARK, BYUNG H.....	PULMONARY ALVEOLAR PROTEINOSIS PATHOGENETIC MECHANISMS.....	7R01 HL19628-01	61,620
ORGANIZATION TOTAL	7 369,352		
<b>MEDICAL FOUNDATION OF BUFFALO</b>	<b>ZIP CODE 14203</b>		
CODY, VIVIAN.....	MOLECULAR STRUCTURES OF THYROACTIVE COMPOUNDS.....	5R01 AM15051-05	60,280
DORSET, DOUGLAS L.....	ELECTRON DIFFRACTION OF MEMBRANE PHOSPHOLIPIDS.....	2R01 GM21047-03	64,458
DUAX, WILLIAM L.....	MOLECULAR STRUCTURE OF STEROIDS.....	5R01 CA10906-09	147,503
DUAX, WILLIAM L.....	IONOPHORES, TRANSPORT AND MEMBRANE STRUCTURE.....	2R01 GM19684-04	75,237
DUAX, WILLIAM L.....	DISSEMINATION OF MOLECULAR DATA FOR BIOMEDICAL USE.....	5R01 LM02353-02	74,765
HAUPTMAN, HERBERT A.....	ULTRASTRUCTURE OF ANTIHYPERTENSIVE PROSTAGLANDINS.....	2R01 HL15378-04A1	62,386
HAUPTMAN, HERBERT A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05716-05	49,021
OSAWA, YOSHIO.....	HUMAN DEVELOPMENT AND ESTROGEN BIOSYNTHESIS.....	5R01 HD04945-06	87,115
ORGANIZATION TOTAL	8 620,765		
<b>NEW YORK STATE DEPARTMENT OF HEALTH—ROSWELL PARK MEMORIAL INSTITUTE</b>	<b>ZIP CODE 14263</b>		
ALLEN, HOWARD J.....	STUDIES ON CANCER CELL SURFACE GLYCOPROTEINS.....	5R01 CA14854-02	50,450
AMBRUS, CLARA M.....	IMMOBILIZED ENZYMES FOR MANAGEMENT OF PHENYLKETONURIA.....	1R01 GM22735-01	62,373
AUNGST, C WILLIAM.....	CANCER CONTROL OUTREACH PROGRAM.....	5R18 CA16411-02	245,412
BARLOW, JOSEPH J.....	GYNECOLOGIC ONCOLOGY GROUP.....	2R10 CA12535-06	45,322
BEALMEAR, PATRICIA M.....	RADIATION PATHOLOGY AND TREATMENT IN GERM-FREE MICE.....	7R01 AI13895-01	59,066
BERNACKI, RALPH J.....	PLASMA MEMBRANE RECOGNITION IN TUMOR CHEMOTHERAPY.....	5R01 CA15757-03	29,454
BERNACKI, RALPH J.....	METABOLIC FATE OF MAMMARY CELL SURFACE GLYCOCONJUGATES.....	1R01 CA19814-01	36,862
BICHER, HAIM I.....	PROTECTING MICROCIRCULATORY LIVER RADIATION DAMAGE.....	1R01 CA21033-01	51,070
BLOCH, ALEXANDER.....	DEVELOPMENT OF ANTITUMOR NUCLEOSIDES AND NUCLEOTIDES.....	5R01 CA12585-06	129,510
BOX, HAROLD C.....	THE MOLECULAR BASIS OF RADIATION SENSITIZATION.....	5R01 CA14434-04	15,769
BROSS, IRWIN D.....	PROGRAM IN BIOMETRICS OF CANCER EPIDEMIOLOGY.....	5P01 CA11531-07	321,152
BROSS, IRWIN D.....	PROGRAM IN BIOMETRICS OF CANCER EPIDEMIOLOGY.....	5P01 CA11531-08	295,830
CARTER, WILLIAM A.....	CHEMOTHERAPY AND REGULATION OF ONCOGENIC VIRUSES.....	2P01 CA14801-04	526,492
CARTER, WILLIAM A.....	'VIROGENE' IN PROSTATIC TISSUES AND FLUIDS.....	5R26 CA15502-03	82,639
CHAPMAN, VERNE M.....	CONTROL OF GENE EXPRESSION DURING EARLY EMBRYOGENESIS.....	5R01 HD08768-02	59,538
CHENG, YUNG-CHI.....	CANCER CHEMOTHERAPY AND DEOXYNUCLEOTIDE METABOLISM.....	1R01 CA18499-01	56,023
CHHEDA, GIRISH B.....	ROLE OF MODIFIED NUCLEOSIDES IN CANCER CHEMOTHERAPY.....	3R01 CA14185-03S1	18,106
CHU, TSANN M.....	ACID AND ALKALINE PHOSPHATASES IN PROSTATIC CANCER.....	2R26 CA15126-03A1	51,961
CHU, TSANN M.....	STUDY OF CARCINOFETAL ANTIGENS OF PROSTATIC CANCERS.....	5R26 CA15437-03	68,061
CHU, TSANN M.....	ONCOFETAL ANTIGEN(S) AND PANCREATIC CANCER.....	1R26 CA18410-01	78,320
DAO, THOMAS L.....	MAMMARY CARCINOGENESIS.....	5P01 CA14812-03	309,363
DAVE, CHANDRAKANT.....	BISGUANYLHYDRAZONES, POLAMINES, AND CELL PROLIFERATION.....	5R01 CA15143-03	57,079
DOUGHERTY, THOMAS J.....	ACTIVATED DYES AS SPECIFIC CANCER DRUGS.....	5R01 CA16717-02	46,125
DOUGHERTY, THOMAS J.....	ACTIVATED DYES AS SPECIFIC CANCER DRUGS.....	5R01 CA16717-03	36,607
DOYLE, DARRELL J.....	PROTEINS OF THE HEPATOMA CELL PLASMA MEMBRANE.....	5R01 CA17149-02	72,878
EVANS, MARY J.....	DNA POLYMERASES IN MURINE LYMPHOID CELLS.....	5R01 CA18646-02	31,952
FIEL, ROBERT J.....	POLYANIONS: MODEL GENE REGULATORS.....	5R01 GM19883-03	20,599
FREEMAN, ARNOLD I.....	PHARMACOLOGIC AND THERAPEUTIC EFFECTS OF RIN.RCN.....	1R01 CA18533-01	50,809

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
FUJI, HIROSHI.....	CONTROL OF TUMOR GROWTH BY INDUCTION OF B-CELL TOLERANCE.....	5R01 CA16866-02	29,193
GAETA, JOHN F.....	SCANNING MICROSCOPY OF PROSTATIC CANCER.....	5R26 CA18052-02	33,947
GRINDEY, GERALD B.....	RATIONAL APPROACHES TO COMBINATION CHEMOTHERAPY.....	5R01 CA17156-02	63,214
GURTOO, HIRA L.....	LUNG CANCER, MICROSOMAL OXYGENASES AND THEIR GENETICS.....	1R01 CA17538-01	48,197
GURTOO, HIRA L.....	MICROSOMAL OXYGENASES-AFLATOXIN ACTIVATION-DNA DAMAGE.....	5R01 ES00993-02	27,985
HAKALA, MAIRE T.....	CELL CULTURE STUDIES ON DRUGS AND ANTIMETABOLITES.....	2R01 CA04175-18	117,171
HAKALA, MAIRE T.....	CELL CULTURE STUDIES ON DRUGS AND ANTIMETABOLITES.....	5R01 CA04175-19	128,194
HAN, TIN.....	IN VITRO LYMPHOCYTE RESPONSES IN HODGKIN'S DISEASE.....	5R01 CA12318-05	46,296
HELD, WILLIAM A.....	ASSEMBLY OF E. COLI 30S RIBOSOMES FROM PRECURSOR RNA.....	5R01 GM22204-02	39,217
HELMSTETTER, CHARLES E.....	BIOCHEMISTRY AND RADIATION EFFECT DURING THE CELL CYCLE.....	5R01 CA08232-12	49,850
HENDERSON, EDWARD S.....	ACUTE LEUKEMIA GROUP B.....	5R10 CA02599-22	108,518
HENDERSON, EDWARD S.....	CANCER CLINICAL RESEARCH CENTER.....	2P01 CA05834-15	685,374
HENDERSON, EDWARD S.....	LEUKEMIA CENTER PLATELET TRANSFUSION PROGRAM.....	5R01 CA11987-22	147,347
HOLTERMANN, OLE A.....	ANTITUMOR EFFECTS OF NONSPECIFICALLY ACTIVATED W.B.C.....	5R01 CA17205-02	36,005
HOLYOKE, EDWARD D.....	IMMUNE STATUS: GASTROINTESTINAL TUMOR (COLON).....	2R26 CA15263-03	184,501
HUANG, CHESTER C.....	A MODIFIED HOST-MEDIATED ASSAY USING HUMAN CELLS.....	1R01 ES01290-01	33,717
HUGHES, ROBERT G, JR.....	CELL TRANSFORMATION BY HERPES SIMPLEX VIRUS.....	5R01 CA13114-05	68,259
JACOBSON, KENNETH A.....	SURFACE DYNAMICS OF NORMAL AND TRANSFORMED CELLS.....	5R01 CA16743-02	76,294
JACOBSON, KENNETH A.....	SURFACE DYNAMICS OF NORMAL AND TRANSFORMED CELLS.....	5R01 CA16743-03	71,376
JOHNSON, RICHARD J.....	RADIATION THERAPY ONCOLOGY GROUP.....	2R10 CA14058-03	66,155
KARTHA, GOPINATH.....	CYCLOC PEPTIDES, STRUCTURE AND FUNCTION.....	1R01 GM22490-01	46,117
KEMP, GEORGE E.....	PURIFYING & RECONSTITUTING ACETYLCHOLINE RECEPTORS.....	5R01 NS11356-03	38,230
KIRDANI, RASHAD Y.....	METABOLITES AND CONJUGATES IN BILE AND URINE.....	5R01 AM11754-09	40,454
KLEIN, EDMUND.....	RELATION OF IMMUNE REACTIONS TO CUTANEOUS NEOPLASIA.....	5R01 CA13599-06	83,201
KORYTNYK, WALTER.....	CANCER CHEMOTHERAPY AND PLASMA MEMBRANE.....	5R01 CA08793-10	43,545
LASKOWSKI, MICHAEL, SR.....	STUDY OF LIMITED ENZYMIC CLEAVAGES OF NATIVE DNA.....	5R01 CA17788-02	32,778
LASKOWSKI, MICHAEL, SR.....	INHIBITORS OF PROTEINASES.....	2R01 HL15892-03	60,324
LIBBY, PAUL R.....	POLYAMINE METABOLISM IN MAMMARY CANCER.....	5R01 CA15362-03	45,884
MASLOW, DAVID E.....	SPECIFICITY OF NORMAL AND CANCER CELL INTERACTIONS.....	2R01 CA14370-04	26,731
MAYHEW, ERIC G.....	MECHANISM OF ANTITUMOR EFFECTS OF POLYNUCLEOTIDES.....	2R01 CA14405-04	27,791
MC LIMANS, WILLIAM F.....	DIRECT SUSPENSION CULTURE OF HUMAN PROSTATE CELLS.....	5R26 CA18652-02	75,260
MIHICH, ENRICO.....	EXPERIMENTAL THERAPEUTICS AND CANCER DRUG PROGRAM.....	5P01 CA13038-05	1,129,046
MIHICH, ENRICO.....	DEVELOPMENT AND STUDY OF NEW ANTICANCER AGENTS.....	5R01 CA10478-05	91,983
MIHICH, ENRICO.....	CANCER CHEMOTHERAPY AND IMMUNOLOGIC EFFECTS.....	5R01 CA15142-03	114,972
MINOWADA, JUN.....	STUDY OF HUMAN LYMPHATIC NEOPLASIA.....	2R01 CA14413-04	83,235
MIRAND, EDWIN A.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA18201-02	237,318
MITTELMAN, ARNOLD.....	COOPERATIVE STUDY OF ONCOLOGY.....	5R10 CA12296-06	108,149
MOAYERI, HOUSHANG.....	LEUKOCYTE THYMIDINE UPTAKE IN CHRONIC LEUKEMIA.....	5R01 CA17668-02	27,029
MORREAL, CHARLES E.....	MECHANISMS OF HYDROCARBON CARCINOGENESIS IN THE RAT.....	5R01 CA15162-03	56,069
MURPHY, GERALD P.....	NATIONAL PROSTATIC CANCER PROJECT.....	5R26 CA14716-04	418,387
MURPHY, GERALD P.....	NATIONAL STUDY OF CANCER OF THE BLADDER.....	5R26 CA15937-03	52,114
MURPHY, GERALD P.....	SUPPORT FOR CANCER CORE CENTER.....	5P30 CA16056-02	506,056
MURPHY, GERALD P.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00262-11	88,039
MURPHY, GERALD P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05648-10	261,305
NEEMAN, MOSHE.....	INHIBITION OF INITIATION-PROMOTION CARCINOGENESIS.....	5R01 CA15890-02	31,193
PAIGEN, BEVERLY J.....	GENETICS OF AHH IN RELATION TO CANCER ETIOLOGY.....	1R01 CA18542-01	74,187
PAIGEN, KENNETH.....	GENES AND CANCER: A SYMPOSIUM.....	1R13 CA19012-01	18,954
PAIGEN, KENNETH.....	GENETIC STUDY OF MAMMALIAN CONTROL SYSTEMS.....	5P01 GM19521-05	541,316
PAPAHADJOPOULOS, P D.....	LIPID VESICLES AS DRUG CARRIERS IN VITRO AND IN VIVO.....	1R01 CA18527-01	56,663
PAPAHADJOPOULOS, P D.....	PHOSPHOLIPID-PROTEIN INTERACTIONS AND MEMBRANE FUNCTION.....	5R01 GM18921-05	61,939
PARSONS, DONALD F.....	EMULSIONS AND IMAGE INTENSIFIER FOR THE H.V.E.M.....	3R24 RR00754-01S1	3,759
PARSONS, DONALD F.....	IMAGE-CONVERSION PLATE FOR THE H.V.E.M.....	2R24 RR00754-02	48,054
PARTHASARATHY, RENGACHARY.....	STRUCTURE AND FUNCTION OF MODIFIED BASES OF T-RNA.....	5R01 CA16844-02	39,984
PARTHASARATHY, RENGACHARY.....	STRUCTURE AND FUNCTION OF MODIFIED BASES OF T-RNA.....	5R01 CA16844-03	39,759
PAULY, JOHN L.....	WHOLE BLOOD MICROCULTURE ASSAY OF LYMPHOCYTE FUNCTION.....	5R01 CA17658-02	25,604
PIERUCCI, OLGA.....	THE CELL DIVISION CYCLE OF GRAM-POSITIVE BACILLI.....	1R01 AI13453-01	48,519
PIERUCCI, OLGA.....	ROLE OF THE BACTERIAL ENVELOPE IN CELL DUPLICATION.....	5R01 GM21006-02	18,257
PLAGER, JOHN E.....	IN VIVO CELL CYCLE SYNCHRONIZATION OF MURINE TUMORS.....	1R01 CA19097-01	21,711
PORTER, CARL W.....	GLYCOSYL TRANSFERASES AND THE PLASMA MEMBRANE.....	1R01 GM23233-01	31,298
POSTE, GEORGE H.....	MODIFICATION OF CELL BEHAVIOR BY LIPID VESICLES.....	1R01 CA18260-01	54,022



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
PREISLER, HARVEY D.	PATHOPHYSIOLOGY OF MURINE MYELOID LEUKEMIA	5R01 CA17785-02	55,710
PRESSMAN, DAVID	STRUCTURE AND CHEMICAL NATURE OF SPECIFIC ANTIBODY SITES	5R01 AI03962-16	120,793
PRESSMAN, DAVID	IMMUNOBIOLOGICAL STUDIES WITH CULTURED HUMAN LYMPHOCYTES	5R01 AI08899-08	138,218
PRESSMAN, DAVID	MEMBRANE ANTIGENS FROM NORMAL AND LEUKEMIC LYMPHOCYTES	5R01 CA17276-02	59,070
PRESSMAN, DAVID	CANCER CELL PROPERTIES AND HOST RESPONSE	5P01 CA17609-02	132,742
ROHOLT, OLIVER A.	BINDING SITES OF MYELOMA PROTEINS AND ANTIBODIES	5R01 AI12100-03	30,461
ROHOLT, OLIVER A.	FUNCTIONAL SURFACE ANTIGENS OF T- AND B-CELL TUMORS	1R01 CA19161-01	29,374
ROSEN, FRED	GLUCOCORTICOID RECEPTORS IN NORMAL AND MALIGNANT TISSUE	5R01 CA05671-16	64,854
RUSTUM, YUCEF M.	CELLULAR SELECTIVITY OF ANTIMETABOLITES	1R01 CA18420-01	40,872
SANDBERG, AVERY A.	PROTEIN BINDING AND BILIARY EXCRETION OF STEROIDS	5R01 AM01240-20	103,115
SANDBERG, AVERY A.	CHROMOSOMES OF HUMAN BLADDER TUMORS	2R26 CA14555-04	49,952
SANDBERG, AVERY A.	TEST SYSTEMS FOR DRUGS AGAINST PROSTATIC CANCER	5R26 CA15436-03	53,158
SANDBERG, AVERY A.	INTRACELLULAR FACTORS CONTROLLING MITOTIC EVENTS	5R01 CA16935-02	27,316
SANDBERG, AVERY A.	ESTROGEN RECEPTORS AND CANCER OF THE PANCREAS	5R26 CA18396-02	30,011
SEON, BYEONG-KUK	HUMAN LEUKEMIA AND LYMPHOMA ASSOCIATED ANTIGENS	1R01 CA19304-01	34,033
SHEDD, DONALD P.	REED FISTULA SPEECH FOLLOWING PHARYNGOLARYNGECTOMY	5R01 NS10941-03	7,910
SHOWS, THOMAS B.	HUMAN GENE LINKAGE RELATIONSHIPS IN CELL HYBRIDS	2R01 GM20454-04	132,949
SHOWS, THOMAS B.	AN APPROACH TO HUMAN DEVELOPMENT WITH CELL HYBRIDS	5R01 HD05196-06	63,819
SINKS, LUCIUS F.	CHEMOTHERAPY OF ACUTE LEUKEMIA	5R10 CA07918-12	73,520
SLACK, NELSON H.	BLADDER ADJUVANT STUDY, FOLLOW-UP AND ANALYSIS	5R26 CA16901-02	3,927
SRIVASTAVA, B I.	POLYNUCLEOTIDES & STREPTOVARICINS IN CANCER CHEMOTHERAPY	5R01 CA16045-03	38,128
SRIVASTAVA, B I.	TERMINAL DEOXYNUCLEOTIDYL TRANSFERASE AND LEUKEMIA	5R01 CA17140-02	45,738
SUFRIN, GERALD	PROSTATIC ESTROGEN RECEPTORS	1R26 CA20459-01	54,229
SULKOWSKI, EUGENE	AFFINITY CHROMATOGRAPHY OF HUMAN INTERFERON	1R01 AI12933-01	45,453
TABER, ROBERT L, JR.	PROTEOLYSIS IN CELL SYNTHETIC AND GROWTH PROCESSES	5R01 CA16705-02	38,309
TABER, ROBERT L, JR.	PROTEOLYSIS IN CELL SYNTHETIC AND GROWTH PROCESSES	5R01 CA16705-03	36,185
TAKITA, HIROSHI	IMMUNOTHERAPY IN LUNG CARCINOMA WITH AUTOLOGOUS TUMOR	5R01 CA15691-03	47,801
WEISS, LEONARD	THE EFFECT OF IMMUNOLOGIC FACTORS ON METASTASIS	5R01 CA14993-03	28,745
WENNER, CHARLES E.	THE EFFECT OF COCARCINOGENS ON CELLULAR MEMBRANES	2R01 CA13784-04	49,616
ZAKRZEWSKI, SIGMUND F.	DEVELOPMENT AND STUDY OF NEW ANTICANCER AGENTS	2R01 CA14078-04	85,893
ZUCALI, JAMES R.	REGULATION OF ERYTHROPOIETIN BIOGENESIS	1R01 AM18650-01	39,356
ORGANIZATION TOTAL	119	11,540,125	
<b>STATE UNIVERSITY OF NEW YORK AT BUFFALO ZIP CODE 14214</b>			
ACARA, MARGARET A.	RENAL METABOLISM OF CHOLINE: ENHANCEMENT OF EXCRETION	5R01 AM17201-02	34,344
ACARA, MARGARET A.	RENAL METABOLISM OF CHOLINE: ENHANCEMENT OF EXCRETION	5R01 AM17201-03	35,239
ANDERSON, WAYNE K.	THE SYNTHESIS OF POLYFUNCTIONAL TUMOR INHIBITORS	5R01 CA11880-05	26,933
ANDRES, GIUSEPPE A.	IMMUNOPATHOLOGY OF NEPHRITIS AND RENAL TRANSPLANTS	5R01 AI10334-06	133,579
APICELLA, MICHAEL A.	CLASSIFICATION OF N. MENINGITIDIS GROUP C SUBGROUPS	5R01 AI10236-06	27,893
APICELLA, MICHAEL A.	SUBGROUPS OF NEISSERIA GONORRHOEA	5R01 AI11873-02	42,484
APICELLA, MICHAEL A.	SUBGROUPS OF NEISSERIA GONORRHOEA	5R01 AI11873-03	43,325
ARBESMAN, CARL E.	CLINICAL & IMMUNOLOGIC EFFECTS OF SPECIFIC IMMUNOTHERAPY	5R01 AI01303-20	84,663
ARBESMAN, CARL E.	STUDIES OF REACTIONS TO STINGING INSECTS	2P50 AI10397-04	9,082
BACK, NATHAN	VASOACTIVE REGULATORS IN TUMOR TISSUE	5R01 HL11492-09	41,466
BAHL, OM P.	THE CHEMISTRY OF SUBMAXILLARY MUCIN IN CYSTIC FIBROSIS	5R01 AM13490-06	45,569
BAHL, OM P.	CHARACTERIZATION OF GLYCOSIDASES & GLYCOSYL TRANSFERASES	5R01 AM17441-02	54,929
BAHL, OM P.	STUDIES ON CHORIONIC GONADOTROPIN	5R01 HD08766-10	101,635
BAHL, OM P.	STUDIES ON CHORIONIC GONADOTROPIN	5R01 HD08766-11	110,139
BARDOS, THOMAS J.	CHEMICAL AND BIOLOGICAL STUDIES IN CANCER CHEMOTHERAPY	5R01 CA06695-14	72,353
BARNARD, ERIC A.	AUTORADIOGRAPHIC STUDIES OF RECEPTORS AND ENZYMES	5R01 GM11754-13	53,765
BARNETT, MICHAEL L.	ROLE OF MAST CELL IN GINGIVAL AND PERIODONTAL LESIONS	5R23 DE04162-02	10,246
BARNETT, MICHAEL L.	ROLE OF MAST CELL IN GINGIVAL AND PERIODONTAL LESIONS	5R23 DE04162-03	10,699
BORDER, JOHN R.	SEQUENCE OF ORGAN FAILURES FOLLOWING TRAUMA	5P50 GM15768-08	255,976
BROWNIE, ALEXANDER C.	CONTROL OF STEROIDOGENESIS IN ADRENAL CORTICAL TISSUE	5R01 AM18141-02	60,265
BROWNIE, ALEXANDER C.	PATHOGENESIS AND PREVENTION OF HYPERTENSION	5R01 HL06975-15	155,470
BROWNIE, ALEXANDER C.	PATHOGENESIS AND PREVENTION OF HYPERTENSION	5R01 HL06975-16	168,554
BRUENN, JEREMY A.	SEQUENCING OF YEAST KILLER-FACTOR RNAS	5R01 GM22200-02	32,772
CADENHEAD, DAVID A.	SURFACE STUDIES OF MEMBRANE LIPIDS	3R01 HL12760-06S1	16,357
CADENHEAD, DAVID A.	SURFACE STUDIES OF MEMBRANE LIPIDS AND PROTEINS	2R01 HL12760-07	34,811
CHANG, HSIN-KANG	ROLE OF MULTICOMPONENT DIFFUSION IN GAS EXCHANGE	5R01 HL18022-02	24,526



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
CORAH, NORMAN L.	CONTROL OF STRESS DURING DENTAL PROCEDURES	1R01 DE04494-01	36,928
COTLIER, EDWARD	BIOCHEMICAL STUDIES IN NORMAL AND CATARACTS LENSES	7R01 EY02013-01	61,847
CUDKOWICZ, GUSTAVO	FACTORS CONTROLLING GRAFT-HOST INTERACTIONS	5R01 AM13969-08	85,883
CUDKOWICZ, GUSTAVO	CONTROLS OF PROLIFERATION SPECIFIC FOR LEUKEMIAS	3R01 CA12844-03S1	7,254
CUDKOWICZ, GUSTAVO	CONTROLS OF PROLIFERATION SPECIFIC FOR LEUKEMIAS	2R01 CA12844-04	80,052
DAVIS, PAUL J.	THYROID HORMONE-BINDING PROTEINS IN CYTOSOL	7R01 AM19177-01	11,408
DAVIS, PAUL J.	THYROID HORMONE-BINDING PROTEINS IN CYTOSOL	5R01 AM19177-02	26,704
DERECHIN, MOISES	ACTIVE CENTER STUDIES OF ENZYMES	5R01 GM16726-06	59,085
DICKEY, JAMES M.	ADAPTIVE SMOOTHING MODELS FOR ESTIMATED PROBABILITIES	1R01 GM23043-01	38,597
DZIAK, ROSE M.	BONE CELL CALCIUM REGULATION	1R23 DE04637-01	14,902
EDWARDS, JOHN A.	INHERITED ABNORMALITIES OF IRON AND GLOBIN METABOLISM	1R01 AM19424-01	29,360
ELLIOTT, WILLARD B.	PROPERTIES OF CYTOCHROME OXIDASE	5R01 GM06241-18	42,954
ELLISON, ROSE R.	CHEMOTHERAPY OF CANCER: ACUTE LEUKEMIA GROUP B	5R10 CA16451-02	67,678
ELLISON, ROSE R.	CLINICAL CANCER EDUCATION PROGRAM	1R01 AM19424-01	55,172
ELLISON, SOLON A.	HOST RESPONSE IN DENTAL DISEASE	5P01 DE03841-03	377,228
EMMINGS, FRED G.	SALIVARY ANTIBODIES TO S. MUTANS: INDUCTION AND EFFECTS	5R01 DE04061-02	46,297
ETTINGER, MURRAY J.	THE MOLECULAR BASIS OF ANTIURETIC HORMONE ACTION	5R01 AM17911-02	44,916
FARHI, LEON E.	CARDIORESPIRATORY PERFORMANCE & ENVIRONMENTAL FACTORS	3P01 HL14414-04S1	16,789
FOURTNER, CHARLES R.	CENTRAL NERVOUS CONTROL OF BEHAVIORAL DIVERSITY	1R01 NS13044-01	28,858
GALE, ELLIOT N.	TREATMENT OF TEMPOROMANDIBULAR JOINT PAIN	1R01 DE04358-01	37,929
GARRICK, MICHAEL D.	STUDIES ON HEMOGLOBIN: BIOSYNTHESIS AND GENETICS	5R01 AM14923-05	34,631
GENCO, ROBERT J.	ANTIBODIES OF SALIVA AND OTHER SECRETIONS	5R01 DE02814-08	63,412
GENCO, ROBERT J.	SYMPOSIUM ON THE IMMUNOLOGIC ASPECTS OF DENTAL CARIES	3R13 DE04090-01A1S1	1,800
GIBALDI, MILO	CLINICAL PHARMACOKINETICS AND BIOPHARMACEUTICS	5P50 GM20852-03	240,697
GORDON, MILDRED	SPERM MEMBRANES DURING POST-GONADAL DIFFERENTIATION	5R01 HD10031-02	89,928
GRAHAM, SAXON	SOCIAL EPIDEMIOLOGY AND CONTROL OF CANCER	2P01 CA11535-06	519,167
GRAHAM, SAXON	SOCIAL EPIDEMIOLOGY AND CONTROL OF CANCER	5P01 CA11535-07	562,608
GREEN, FLOYD A.	ERYTHROCYTE MEMBRANE SULFHYDRYLS AND RH ACTIVITY	5R01 HD02370-10	86,364
GREEN, FLOYD A.	ERYTHROCYTE MEMBRANE SULFHYDRYLS AND RH ACTIVITY	5R01 HD02370-11	92,295
GRUSHKA, ELI	SEPARATION OF AMINO ACIDS USING LIQUID CHROMATOGRAPHY	5R01 GM20846-02	14,697
GUTHRIE, ROBERT	DETECTION AND STUDY OF INBORN ERRORS	5R01 HD03967-11	58,884
HARFORD, AGNES G.	NATURAL CORRECTION OF GENE DEFICIENCIES	5R01 GM21487-02	42,451
HAUSMANN, ERNEST	ORAL BACTERIAL PRODUCTS AND BONE RESORPTION	2R01 DE01932-12	80,207
HERMAN, GABOR T.	COMPUTER TECHNOLOGY FOR TRANSEXIAL TOMOGRAPHY	1R01 HL18968-01	143,247
HOGAN, PERRY M.	MECHANISMS OF CARDIAC AUTORHYTHMICITY	5R01 HL16135-03	23,318
HONG, SUK K.	SECRETION OF WEAK ORGANIC ACIDS BY THE KIDNEY TUBULE	1R01 AM18918-01	42,793
HRESHCHYSHYN, MYROSLAW M.	GYNECOLOGIC ONCOLOGY GROUP (GOG)	2R10 CA12476-06	35,252
HRESHCHYSHYN, MYROSLAW M.	GYNECOLOGIC ONCOLOGY GROUP (OPERATIONS OFFICE)	5R10 CA19178-05	1
HULL, MC ALLISTER H, JR.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07066-11	114,406
JACOBS, DIANE M.	MODE OF ACTION OF A STIMULATOR OF TUMOR RESISTANCE	7R01 CA20078-01	101,580
JUNG, CHAN Y.	IDENTIFICATION AND ISOLATION OF SUGAR TRANSPORT CARRIER	5R01 AM13376-08	38,718
KALMAN, THOMAS I.	SELECTED STUDIES IN NUCLEIC ACID METABOLISM	5R01 CA13604-05	61,888
KITE, JOSEPH H, JR.	PATHOGENESIS OF PULMONARY MYCOPLASMA INFECTION	1R01 HL20063-01	43,701
KLOCKE, FRANCIS J.	PATHOPHYSIOLOGY OF CARDIOPULMONARY DYSFUNCTION	5P01 HL15194-04	381,157
KLOCKE, FRANCIS J.	PATHOPHYSIOLOGY OF CARDIOPULMONARY DYSFUNCTION	5P01 HL15194-05	392,863
KOENIG, EDWARD	PROTEIN SYNTHESIZING MACHINERY OF THE AXON	5R01 NS04656-13	45,258
KRASNEY, JOHN A.	MECHANISMS OF THE CARDIOVASCULAR RESPONSE TO ANOXIA	5R01 HL18416-02	30,805
LEE, GEORGE C.	SOLID AND STRUCTURAL MECHANICS OF LUNGS	3R01 HL14495-02S1	14,575
LEE, GEORGE C.	SOLID AND STRUCTURAL MECHANICS OF LUNGS	2R01 HL14495-03	54,844
LEVINE, MICHAEL J.	SPECIFICITY OF SALIVARY AGGREGATION BY ORAL BACTERIA	1R23 DE04518-01	11,098
LEVY, GERHARD	PHARMACOKINETICS OF SALICYLATE IN CHILDREN	5R01 GM19568-09	48,811
LI, HSUEH-JEI	INTERACTION BETWEEN DNA AND MODEL PROTEINS	7R01 GM23079-01	48,277
LI, HSUEH-JEI	HELIX-COIL TRANSITION IN NUCLEOPROTEIN	5R01 GM23080-01	31,829
MC ISAAC, ROBERT J.	INFLUENCE OF PREGANGLIONIC NERVE ON GANGLION RESPONSES	3R01 NS06990-09S1	3,696
MC ISAAC, ROBERT J.	INFLUENCE OF PREGANGLIONIC NERVE ON GANGLION RESPONSES	2R01 NS06990-10A1	40,648
MEISLER, MIRIAM H.	GENETIC REGULATION OF BETA-GALACTOSIDASE	5R01 GM20889-02	35,617
MILANO, MICHAEL J.	MULTICOMPONENT SIMULTANEOUS CLINICAL ANALYSIS	1R01 GM23001-01	34,212
MILGROM, FELIX	HUMORAL ANTIBODIES ACCOMPANYING HOMOGRAFTS	5R01 AM17317-12	125,481
MILGROM, FELIX	AUTOIMMUNE RESPONSES TO NORMAL AND MALIGNANT TISSUES	3P01 CA02357-21S1	224,589
MILLER, ROBERT F.	GLIAL CONTRIBUTIONS TO RETINAL FUNCTION	5R01 EY00844-05	29,244

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
MILLER, WILLIAM A.....	EXPLANATION OF DENTAL LAMINA.....	5R01 DE02908-05	34,788
MOHN, JAMES F.....	BLOOD GROUP ANTIGENS AND ANTIBODIES.....	3R01 HL05351-15S1	14,095
MOHN, JAMES F.....	BLOOD GROUP ANTIGENS AND ANTIBODIES.....	2R01 HL05351-16	38,483
MURRAY, DANIEL H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05454-14	55,349
NANCOLLAS, GEORGE H.....	THE KINETICS OF FORMATION OF RENAL STONES.....	1R01 AM19048-01	55,048
NANCOLLAS, GEORGE H.....	THE KINETICS OF MINERALIZATION OF TEETH.....	2R01 DE03223-06	62,813
NATIELLA, JOSEPH R.....	STRUCTURAL-FUNCTIONAL CHANGES IN FREEZING ORAL TISSUE.....	5R01 DE03991-02	35,512
NATIELLA, JOSEPH R.....	A STUDY OF SUPERIOSTEAL ORAL IMPLANTS IN PRIMATES.....	5R01 DE04226-02	58,849
NAUGHTON, JOHN.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05400-15	191,305
NILES, EDWARD G.....	IN VITRO TRANSCRIPTION OF TETRAHYMENA PYRIFORMIS RDNA.....	1R01 GM23259-01	48,909
NISEGARD, RUSSELL J.....	IMMUNOPATHOLOGY OF GINGIVITIS AND PERIODONTITIS.....	5R01 DE03408-05	30,897
NOBLE, ROBERT W.....	REACTION OF HEMOGLOBIN WITH LIGANDS AND ANTIBODIES.....	5R01 HL12524-08	31,510
NOELL, WERNER K.....	VULNERABILITY OF THE RETINA TO LIGHT AND OTHER AGENTS.....	5R01 EY02927-11	69,678
PADWA, ALBERT.....	HETEROCYCLIC SMALL RING COMPOUNDS.....	2R01 CA12195-09	46,507
PADWA, ALBERT.....	HETEROCYCLIC SMALL RING COMPOUNDS.....	5R01 CA12195-10	48,412
PHIPPS, GRANT T.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05330-15	57,578
PROVOST, THOMAS T.....	COMPLEMENT ACTIVATION VIA THE C3 SHUNT IN SKIN DISEASE.....	5R01 AM16593-03	19,038
RECHNITZ, GARRY A.....	CLINICAL ANALYSIS WITH ION-SELECTIVE MEMBRANE ELECTRODES.....	5R01 GM17576-06	37,254
RECHNITZ, GARRY A.....	POTENTIOMETRIC CARBONATE ASSAY IN BODY FLUIDS.....	5R01 GM21744-02	23,859
REICHLIN, MORRIS.....	IMMUNOCHEMISTRY OF HEMOGLOBIN VARIANTS.....	5R01 AM10428-11	48,004
REICHLIN, MORRIS.....	IMMUNOCHEMISTRY OF HEMOGLOBIN VARIANTS.....	5R01 AM10428-12	51,073
RENNICK, BARBARA R.....	HOMEOSTATIC REGULATION OF PLASMA CHOLINE.....	5R01 HL14092-05	40,763
RENNIE, DONALD W.....	CARDIORESPIRATORY PERFORMANCE & ENVIRONMENTAL FACTORS.....	5P01 HL14414-05	319,298
RITCHIE, CALVIN D.....	PROTON TRANSFER REACTIONS.....	5R01 GM12832-11	33,068
ROSEN, ROBERT.....	GENERATION OF PATTERN AND FORM IN BIOLOGICAL SYSTEMS.....	5R01 GM21536-05	38,893
ROTHSTEIN, MORTON.....	STUDIES OF AGING IN A NEMATODE MODEL SYSTEM.....	5P01 AG00373-05	201,475
SATO, KENZO.....	MECHANISM OF ECCRINE SWEAT GLAND FUNCTION.....	2R01 AM16258-04	74,077
SCHENK, WORTHINGTON G, JR.....	HEMODYNAMICS AS APPLIED TO SURGICAL PROBLEMS.....	5R01 HL03181-19	81,578
SEGAL, HAROLD L.....	ENZYMIC RESPONSES TO ALTERED ENDOCRINE STATES.....	5R01 AM08873-12	45,038
SEGAL, HAROLD L.....	MECHANISMS AND REGULATION OF PROTEIN TURNOVER.....	5R01 AM18187-02	61,538
SEGAL, HAROLD L.....	MECHANISMS AND REGULATION OF PROTEIN TURNOVER.....	5R01 AM18187-03	62,477
SIEGEL, JOHN H.....	PATTERNS AND PROCESSES IN HUMAN SHOCK AND TRAUMA.....	3R01 GM20280-04S1	88,111
SIEGEL, JOHN H.....	THE ROLE OF OCCULT MYOCARDIAL FAILURE IN HUMAN SHOCK.....	5R01 HL15676-04	146,080
SLAUNWHITE, W ROY, JR.....	THE STRUCTURE OF HUMAN TRANSCORTIN.....	2R01 GM21045-03	35,164
SLAUNWHITE, W ROY, JR.....	THE STRUCTURE OF HUMAN TRANSCORTIN.....	5R01 GM21045-04	50,555
SREBRO, RICHARD.....	MOLECULAR BASIS OF PHOTORECEPTOR ACTIVITY.....	2R01 EY00435-08	70,863
STRAUSS, NORMAN.....	REGULATORY FACTORS OF SPOULATION IN BACILLUS SUBTILIS.....	5R01 GM20728-02	48,010
TRIGGLE, DAVID J.....	SOURCES AND ROLES OF CALCIUM IN SMOOTH MUSCLE EXCITATION.....	5R01 HL16003-06	33,485
TUFARIELLO, JOSEPH J.....	OXIDATIVE CYCLIZATION IN ALKALOID SYNTHESIS.....	5R01 CA14611-03	48,281
WANG, JUI H.....	RESPIRATORY CONTROL AND COUPLED PHOSPHORYLATION.....	2R01 GM19990-04	94,177
WANG, TUNG Y.....	MECHANISM OF ANDROGEN ACTION.....	1R01 HD09443-01	66,811
WEISSTEIN, NAOMI.....	THE ORGANIZATION OF COMPLEX VISUAL PERCEPTION.....	5R01 EY01330-03	42,458
YU, C P.....	RESPIRATORY TRACT DEPOSITION OF INHALED AEROSOLS.....	1R01 ES01239-01	46,428
ZALESKI, MAREK B.....	IMMUNE RESPONSE OF MICE TO THE THY-1 ANTIGENS.....	1R01 AI13628-01	27,117
ZELIN, MARVIN.....	STATISTICAL MODELS OF BIOMEDICAL PHENOMENA.....	3R01 CA10810-08S1	7,000
ZELIN, MARVIN.....	STATISTICAL MODELS OF BIOMEDICAL PHENOMENA.....	2R01 CA10810-09	77,324
ZELIN, MARVIN.....	COOPERATIVE CLINICAL CANCER CENTER: COMPUTING FACILITY.....	3R10 CA12721-04S1	166,475
ZELIN, MARVIN.....	COOPERATIVE STUDY OF CLINICAL CANCER.....	5R10 CA12721-05	685,021
ORGANIZATION TOTAL	134	10,652,490	
<b>STATE UNIVERSITY OF NEW YORK—COLLEGE AT BUFFALO      ZIP CODE 14222</b>			
ISSEROFF, HADAR.....	PROLINE IN FASCIOLIASIS.....	2R01 AI09911-04A1	33,273
WAGNER, MAZIE E.....	CHILD-SPACING AND FAMILY-SIZE IN POPULATION PLANNING.....	5R01 HD07551-03	59,969
ORGANIZATION TOTAL	2	93,242	
<b>COLD SPRING HARBOR</b>			
<b>COLD SPRING HARBOR LABORATORY      ZIP CODE 11724</b>			
GESTELAND, RAYMOND F.....	SELECTED COLD SPRING HARBOR SUMMER WORKSHOPS.....	5R13 CA16224-03	62,400

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
WATSON, JAMES D .....	SUPPORT FOR SYMPOSIA ON QUANTITATIVE BIOLOGY.....	5R13 CA02809-21	19,000
WATSON, JAMES D .....	CANCER RESEARCH PROGRAM.....	5P01 CA13106-05	1,782,865
WATSON, JAMES D .....	THIRD HERPES VIRUS WORKSHOP AT COLD SPRING HARBOR.....	1R13 CA20036-01	22,000
WATSON, JAMES D .....	CONFERENCE ON ORIGINS OF HUMAN CANCER .....	1R13 CA20887-01	60,000
WATSON, JAMES D .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05717-06	46,495
ZIPSER, DAVID .....	THE POLYPEPTIDE PRODUCTS OF LAC OPERON MUTATIONS.....	5R01 GM17612-06	70,059
ORGANIZATION TOTAL	7 2,062,819		
<b>COOPERSTOWN</b>			
MARY IMOGENE BASSETT HOSPITAL AND CLINICS	ZIP CODE 13326		
BLUMENSTOCK, DAVID A .....	ALLOGRAFT TOLERANCE WITH RADIATION AND MARROW .....	5R01 AI12270-02	55,161
PETERS, THEODORE, JR .....	FORMATION AND FUNCTION OF SERUM ALBUMIN.....	5R01 HL02751-19	67,842
SAUER, LEONARD A .....	PATHWAYS OF MALATE METABOLISM IN MALIGNANCY.....	1R01 CA18262-01	35,110
ORGANIZATION TOTAL	3 158,113		
<b>EAST MEADOW</b>			
NASSAU COUNTY MEDICAL CENTER	ZIP CODE 11554		
NEVINS, ALAN J .....	REVITALIZING PULPLESS TEETH USING COLLAGEN-CAPO4 GEL.....	1R23 DE04552-01	11,241
ROSS, AVRON H .....	CRITERIA FOR USE OF ZOSTER IMMUNE GLOBULIN.....	5R01 AI09785-06	33,190
ORGANIZATION TOTAL	2 44,431		
<b>GARDEN CITY</b>			
ADELPHI UNIVERSITY	ZIP CODE 11530		
BETTELHEIM, FREDERICK A .....	OPTICOMECHANICAL STUDY OF GEL STRUCTURES IN THE EYE.....	5R01 EY00501-08	40,182
BETTELHEIM, FREDERICK A .....	POLARIZATION STUDIES IN THE INTACT EYE.....	1R01 EY01725-01	20,138
COOPERSTEIN, DEBORRA F .....	ASCORBIC ACID EFFECTS ON CORNEAL TRANSPORT.....	5R23 EY01485-02	4,350
COOPERSTEIN, DEBORRA F .....	ASCORBIC ACID EFFECTS ON CORNEAL TRANSPORT.....	5R23 EY01485-03	4,500
HAMPTON, JOHN K, JR .....	MATERNAL RESPONSE TO THE 'FETAL ALLOGRAFT'.....	5R01 HD08746-03	19,031
JONES, ROBERT D .....	DIAMINE OXIDASE AND POLYAMINES IN GROWTH REGULATION.....	5R01 HD09512-02	20,653
ORGANIZATION TOTAL	6 108,854		
<b>ITHACA</b>			
CORNELL UNIVERSITY	ZIP CODE 14850		
ALBRECHT, ANDREAS C .....	BASIC PHOTOELECTRIC STUDIES IN ORGANIC SOLID STATE .....	2R01 GM10865-17	90,883
ANDREWS, EDWIN J .....	RELATIONSHIP OF REGENERATION, ONCOGENESIS AND IMMUNITY.....	5R01 CA17080-02	36,385
ANDREWS, EDWIN J .....	LABORATORY ANIMAL DIAGNOSTIC RESOURCE.....	5P40 RR00979-02	91,553
BARNES, RICHARD H .....	EFFECTS OF MALNUTRITION IN EARLY LIFE.....	5R01 HD02581-16	44,727
BENSADOUN, ANDRE .....	LIPID TRANSPORT IN AVIAN SPECIES.....	3R01 HL14990-03S1	30,854
BENSADOUN, ANDRE .....	LIPID TRANSPORT IN AVIAN SPECIES.....	2R01 HL14990-04	49,027
BENSADOUN, ANDRE .....	LIPID TRANSPORT IN AVIAN SPECIES.....	5R01 HL14990-05	71,350
BERGMAN, EMMETT N .....	CARBOHYDRATE AND KETONE BODY METABOLISM.....	5R01 AM05976-15	93,985
BERGMAN, EMMETT N .....	CARBOHYDRATE AND KETONE BODY METABOLISM.....	5R01 AM05976-16	103,408
BLACKLER, ANTONIE W .....	ORGANIZATION OF THE AMPHIBIAN EGG.....	5R01 HD07720-03	28,571
CALNEK, BRUCE W .....	STUDIES ON THE AVIAN LEUKOSIS COMPLEX.....	2R01 CA06709-14	119,260
CALNEK, BRUCE W .....	STUDIES ON THE AVIAN LEUKOSIS COMPLEX.....	5R01 CA06709-15	125,233
CAMHI, JEFFREY M .....	BEHAVIORAL NEUROPHYSIOLOGY OF ARTHROPODS.....	5R01 NS09083-06	32,919
CAMPBELL, T COLIN .....	EFFECT OF NUTRITION ON CARCINOGEN AND TOXIN METABOLISM.....	1R01 CA20079-01	79,871
CAPRANICA, ROBERT R .....	ENCODING OF VOCAL SIGNALS IN THE AUDITORY SYSTEM.....	5R01 NS09244-05	62,376
CAPRANICA, ROBERT R .....	ENCODING OF VOCAL SIGNALS IN THE AUDITORY SYSTEM.....	5R01 NS09244-06	63,588
COOKE, W DONALD .....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES .....	5S07 RR07061-11	176,143
CORRADINO, ROBERT A .....	SYNTHESIS AND FUNCTION OF CALCIUM BINDING PROTEIN.....	5R01 AM15355-06	15,988
DOBSON, ALAN .....	BLOOD FLOW AND ABSORPTION IN THE RUMINANT STOMACH.....	3R01 AM04679-15S1	4,847
DROST, CORNELIUS J .....	ACCURATE TRANSCUTANEOUS DOPPLER BLOODFLOW MONITORING.....	1R01 HL19019-01	74,226
EDELSTEIN, STUART J .....	SUBUNIT INTERACTIONS AND HEMOGLOBIN PATHOLOGY.....	5R01 HL13591-06	70,866
EISNER, THOMAS .....	SECRETIONS OF ARTHROPODS .....	5R01 AI02908-17	65,241



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
EISNER, THOMAS.....	SECRETIONS OF ARTHROPODS.....	5R01 AI02908-18	71,162
ELSON, ELLIOT L.....	DYNAMICS OF BIOPHYSICAL MEMBRANE PROCESSES.....	5R01 GM21661-02	79,270
ELSON, ELLIOT L.....	BIPOLYMERIC TRANSFORMATIONS BY SMALL PERTURBATION.....	5R01 GM22082-02	49,141
FABRICANT, CATHERINE G.....	VIRAL ROLE IN ARTERIOSCLEROSIS PATHOGENESIS.....	1R01 HL19381-01	78,897
FEIGENSON, GERALD W.....	LIPID-PROTEIN INTERACTIONS AND CALCIUM TRANSPORT.....	5R01 HL18255-02	44,950
FINK, GERALD R.....	REGULATION OF HISTIDINE BIOSYNTHESIS IN YEAST.....	2R01 GM15408-09	78,991
FITCHEN, DOUGLAS B.....	HEME PROTEIN SOLUTION STRUCTURE FROM RAMAN SPECTRA.....	5R01 AM18048-02	65,235
FOOTE, ROBERT H.....	MATURATION, METABOLISM AND AGING OF GAMETES.....	5R01 HD03471-12	40,456
GANEM, BRUCE.....	SYNTHESIS OF MAYTANSINE; AN IMPORTANT ANTITUMOR AGENT.....	1R01 CA19686-01	60,993
GAYLOR, JAMES L.....	STEROL BIOSYNTHESIS.....	5R01 AM10767-10	91,601
GIBSON, QUENTIN H.....	KINETICS OF ENZYMES AND HEMOGLOBIN-LIGAND REACTIONS.....	5R01 GM14276-12	106,568
GOLDSTEIN, MELVIN J.....	NEW FRAMEWORKS FOR CHEMOTHERAPEUTIC DESIGN.....	5R01 CA10495-08	66,236
HAINES, MICHAEL R.....	OCCUPATION AND THE ECONOMIC DETERMINANTS OF FERTILITY.....	2R01 HD07599-03	30,664
HALLBERG, RICHARD L.....	DNA AND PROTEIN METABOLISM IN OOCYTES.....	5R01 HD06448-05	31,927
HAMMES, GORDON G.....	KINETICS OF PHYSIOLOGICALLY IMPORTANT REACTIONS.....	2R01 GM13292-12	162,240
HANSEL, WILLIAM.....	THE ROLE OF ESTROGEN IN CONTROL OF THE FEMALE CYCLE.....	5R01 HD06718-05	81,584
HANSEL, WILLIAM.....	MAINTENANCE OF THE CORPUS LUTEUM OF PREGNANCY.....	1R01 HD09870-01	66,641
HEPPEL, LEON A.....	MECHANISMS OF ACTIVE TRANSPORT AND MEMBRANE ENZYMES.....	5R01 AM11789-09	74,286
HESS, GEORGE P.....	INTERRELATIONSHIP BETWEEN PROTEIN STRUCTURE AND FUNCTION.....	5R01 GM04842-20	44,626
HESS, GEORGE P.....	INTERRELATIONSHIP BETWEEN PROTEIN STRUCTURE AND FUNCTION.....	5R01 GM04842-21	46,288
HESS, GEORGE P.....	CHEMICAL REACTIONS IN TRANSMISSION OF NERVE IMPULSES.....	2R01 NS08527-07	54,805
HESS, GEORGE P.....	CHEMICAL REACTIONS IN TRANSMISSION OF NERVE IMPULSES.....	5R01 NS08527-08	66,235
HINKLE, PETER C.....	ENERGY CONSERVATION IN HEART MITOCHONDRIA.....	5R01 HL14483-06	53,627
HOARD, JAMES L.....	STEREOCHEMISTRY OF HEMES AND RELATED MODEL SYSTEMS.....	5R01 GM09370-15	50,815
HOUPF, T RICHARD.....	CONTROL OF FOOD INTAKE: GLUCOSTATIC AND GI FACTORS.....	5R01 AM17601-02	51,939
HOY, RONALD R.....	NEUROLOGICAL & GENETIC ANALYSIS OF ACOUSTIC BEHAVIOR.....	5R01 NS11630-03	46,027
HOY, RONALD R.....	NEUROLOGICAL & GENETIC ANALYSIS OF ACOUSTIC BEHAVIOR.....	5R01 NS11630-04	50,201
JAGENDORF, ANDRE T.....	MEMBRANE-ASSOCIATED PHOSPHORYLATION.....	5R01 GM14479-10	48,038
JAGENDORF, ANDRE T.....	MEMBRANE-ASSOCIATED PHOSPHORYLATION.....	5R01 GM14479-11	50,354
KELLER, ELIZABETH B.....	THE BIOSYNTHESIS OF RNAs: MECHANISMS AND CONTROLS.....	2R01 GM10791-14	77,472
KIM, MYUNGHWAN.....	STUDY OF CANCER CELL KINETICS AND CHEMOTHERAPY.....	5R01 CA16259-02	31,795
KINSELLA, JOHN E.....	ATHEROSCLEROSIS-DIET, LINOLEIC ACID & PROSTAGLANDINS.....	1R01 HL19337-01	48,115
LEWIS, AARON.....	TUNABLE LASER RAMAN SPECTROSCOPY OF THE VISUAL PROCESS.....	5R01 EY01377-02	42,533
LEWIS, AARON.....	TUNABLE LASER RAMAN SPECTROSCOPY OF THE VISUAL PROCESS.....	5R01 EY01377-03	50,071
LOUDON, G MARC.....	NEW METHODS FOR PROTEIN SEQUENCING AND MODIFICATION.....	2R01 GM20315-04	53,874
MACDONALD, RUSSELL E.....	ENERGY COUPLING TO TRANSPORT OF IONS BY CELL MEMBRANES.....	1R01 GM23225-01	49,655
MC CORMICK, DONALD B.....	INVESTIGATIONS OF FLAVIN SYSTEMS.....	5R01 AM04585-16	45,561
MC FARLAND, WILLIAM N.....	ENVIRONMENTAL LIGHT AND VISUAL PIGMENTS.....	5R01 EY00323-11	38,017
MC LAFFERTY, FRED W.....	MASS SPECTROMETRY IN BIOMEDICAL RESEARCH.....	5R01 GM16609-08	87,112
MEINWALD, JERROLD.....	CHEMISTRY OF ARTHROPOD SECRETIONS.....	5R01 AI12020-03	60,798
MEINWALD, JERROLD.....	CHEMISTRY OF ARTHROPOD SECRETIONS.....	2R01 AI12020-04	86,120
MELBY, EDWARD C, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05462-14	62,225
MINOR, RONALD R.....	FACTORS IN LUNG DEVELOPMENT.....	7R01 HL20635-01	80,458
MOFFAT, JOHN K.....	OXYGEN TRANSPORT: HEMOGLOBINS WITH MODIFIED HEMES.....	5R01 HL18309-02	26,404
MOFFAT, JOHN K.....	SICKLE CELL HEMOGLOBIN AGGREGATION: PHYSICAL STUDIES.....	5R01 HL18817-02	27,555
NEMETHY, GEORGE.....	AGING: CONFORMATIONAL CHANGES OF COLLAGEN.....	1R01 AG00322-01	33,654
O'BRIEN, RICHARD D.....	MECHANISMS OF INSECTICIDE SELECTIVITY.....	2R01 ES00901-16	98,975
O'BRIEN, RICHARD D.....	ATTEMPTED ISOLATION OF ACETYLCHOLINE RECEPTOR.....	5R01 NS09144-07	63,912
PODLESKI, THOMAS R.....	MOLECULAR CONTROL OF EXCITABILITY OF MUSCLE MEMBRANE.....	3R01 NS10638-03S1	17,456
RACKER, EFRAIM.....	ENERGY METABOLISM IN NORMAL AND TUMOR CELLS.....	5R01 CA08964-10	305,602
RACKER, EFRAIM.....	MEMBRANES IN NORMAL AND CANCER CELLS.....	5P01 CA14454-03	190,732
RACKER, EFRAIM.....	MEMBRANES IN NORMAL AND CANCER CELLS.....	2P01 CA14454-04	277,051
ROBERTS, JEFFREY W.....	GENE CONTROL IN INFECTION & LYSOGENY BY PHAGE LAMBDA.....	5R01 GM21941-02	35,158
ROE, DAPHNE A.....	FETAL EFFECTS OF SULFOCONJUGATION IN PREGNANT RATS.....	5R01 HD07240-07	39,478
SALPETER, MIRIAM M.....	HIGH RESOLUTION AUTORADIOGRAPHY.....	2R01 GM10422-14	82,623
SALPETER, MIRIAM M.....	FUNCTIONAL ULTRASTRUCTURE OF THE NERVOUS SYSTEM.....	5R01 NS09315-07	77,212
SCHERAGA, HAROLD A.....	INTERACTIONS IN SYNTHETIC POLYAMINO ACIDS.....	5R01 AM08465-11	57,190
SCHERAGA, HAROLD A.....	MOTION AND PROXIMITY RELATIONS IN POLYPEPTIDES.....	5R01 AM13743-07	46,622
SCHERAGA, HAROLD A.....	INTERNAL BONDING IN PROTEINS.....	5R01 GM14312-22	76,629
SCHERAGA, HAROLD A.....	EQUILIBRIA IN THE FIBRINOGEN-FIBRIN CONVERSION.....	5R01 HL01662-23	61,389



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
SCHULTZ, ARTHUR G.....	THE TOTAL SYNTHESIS OF VERNOLEPIN AND VERNOMENIN.....	5R01 CA16624-02	51,763
SCHULTZ, ARTHUR G.....	VINYL SULFIDES IN ORGANIC SYNTHESIS.....	5R01 GM21159-03	34,891
SCHWARTZ, RUTH.....	STABLE 26MG AND 28MG IN MEASUREMENT OF MG UTILIZATION.....	5R01 AM18569-02	70,525
SCOTT, FREDRIC W.....	DEVELOPMENT OF HERPES VIRUS VACCINES.....	5R01 RR00885-03	40,801
SCOTT, MILTON L.....	BIOCHEMICAL MODES OF ACTION OF SELENIUM AND VITAMIN E.....	5R01 AM17208-02	57,875
SCOTT, NORMAN R.....	STUDY ON THERMOREGULATION.....	5R01 GM19716-03	42,260
SEMMELEHACK, MARTIN F.....	NATURAL PRODUCT SYNTHESIS.....	5R01 AI08687-08	68,818
SEMMELEHACK, MARTIN F.....	SYNTHESIS OF NATURAL ANTICANCER AGENTS AND ANALOGS.....	1R01 CA18333-01	57,401
SIEGEL, BENJAMIN M.....	BIOMOLECULAR HIGH RESOLUTION ELECTRON MICROSCOPY.....	2R01 GM12873-12	146,676
SRB, ADRIAN M.....	DEVELOPMENTAL GENETIC STUDIES OF NEUROSPORA.....	5R01 GM12953-27	46,020
STEVENS, CHARLES E.....	COMPARATIVE STUDIES OF LARGE INTESTINAL FUNCTION.....	5R01 AM09280-12	47,818
STEVENSON, JAMES F.....	MASS TRANSFER IN BLOOD AND HOLLOW FIBER MEMBRANES.....	2R01 AM17009-03	44,589
TAPPER, DANIEL N.....	NEURAL CORRELATES OF SKIN SENSIBILITY.....	5R01 NS07505-08	39,520
TAPPER, DANIEL N.....	NEURAL CORRELATES OF SKIN SENSIBILITY.....	5R01 NS07505-09	45,764
VAN SOEST, PETER J.....	NUTRITIVE QUALITY OF DIETARY FIBERS FOR HUMANS.....	1R01 CA21016-01	119,848
WASSERMAN, ROBERT H.....	INTESTINAL ABSORPTION OF MINERAL IONS.....	5R01 AM04652-16	173,914
WILKINSON, CHRISTOPHER F.....	MICROSOMAL ENZYMES IN INSECTS.....	5R01 ES00400-08	74,736
WILSON, DAVID B.....	REGULATION OF GALACTOSE METABOLISM IN E COLI.....	5R01 AM11923-09	41,553
WINTER, ALEXANDER J.....	INVESTIGATION OF VENEREAL DISEASE IN ANIMAL MODELS.....	5R01 AI11160-09	56,544
WU, RAY.....	ANALYSIS OF DNA SEQUENCE IN POLYOMA AND SV40 TUMOR VIRUS.....	5R01 CA14989-03	129,639
WU, RAY.....	PROMOTER AND OPERATOR SITE DNA SEQUENCE ANALYSIS.....	5R01 GM18887-05	53,881
ZILVERSMIT, DONALD B.....	FAT METABOLISM AND EXPERIMENTAL ATHEROSCLEROSIS.....	3R01 HL10933-10S1	42,788
ZILVERSMIT, DONALD B.....	FAT METABOLISM AND EXPERIMENTAL ATHEROSCLEROSIS.....	2R01 HL10933-11	110,851
ZILVERSMIT, DONALD B.....	LIPID TRANSPORT.....	5R01 HL10940-11	108,011
ORGANIZATION TOTAL	106	7,413,032	
<b>ITHACA COLLEGE ZIP CODE 14850</b>			
PASTERNAK, ROBERT F.....	FAST REACTIONS IN SOLUTION.....	5R01 GM17574-05	24,662
ORGANIZATION TOTAL	1	24,662	
<b>LAKE PLACID</b>			
<b>TISSUE CULTURE ASSOCIATION-W. ALTON JONES CELL SCIENCE CENTER ZIP CODE 12946</b>			
NARDONE, ROLAND M.....	THIRD DECENNIAL REVIEW CONF: TISSUE CULTURE ASSN.....	1R13 CA21066-01	25,219
ORGANIZATION TOTAL	1	25,219	
<b>LARCHMONT</b>			
<b>INDIVIDUAL AWARD-FRIEDEN, NANCY M. ZIP CODE 10530</b>			
FRIEDEN, NANCY M.....	PHYSICIANS AND PUBLIC HEALTH IN RUSSIA, 1856-1906.....	5R01 LM02590-02	14,160
ORGANIZATION TOTAL	1	14,160	
<b>MANHASSET</b>			
<b>NORTH SHORE UNIVERSITY HOSPITAL ZIP CODE 11030</b>			
BIRNBAUM, GARY.....	STUDIES ON MULTIPLE SCLEROSIS.....	5R01 NS11698-03	18,849
TEICHBERG, SAUL.....	AXONAL TRANSPORT OF PROTEIN AND MEMBRANE IN NEURONS.....	5R01 NS12148-02	38,737
ORGANIZATION TOTAL	2	57,586	
<b>NEW YORK</b>			
<b>AMERICAN CANCER SOCIETY ZIP CODE 10017</b>			
ARJE, SIDNEY L.....	CANCER RESEARCH/CLINICAL INVESTIGATION NATIONAL CONF.....	1R13 CA18795-01	50,000
DAVIS, ALAN C.....	AMERICAN CANCER SOC MISSION TO PEOPLES REP CHINA.....	1R13 CA21626-01	20,172
MILDER, JACK W.....	WORKSHOP CONFERENCE ON NUTRITION AND CANCER THERAPY.....	1R13 CA20894-01	75,900
ORGANIZATION TOTAL	3	146,072	
<b>AMERICAN DIABETES ASSOCIATION ZIP CODE 10017</b>			
CAHILL, GEORGE F, JR.....	9TH CONGRESS INTERNATIONAL DIABETES FEDERATION.....	1R13 AM19431-01	12,180

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
ORGANIZATION TOTAL	1	12,180	
<b>AMERICAN HEALTH FOUNDATION ZIP CODE 10019</b>			
ARNOLD, CHARLES.....	AHF CANCER CONTROL AND PREVENTION PROGRAM.....	5R18 CA17867-02	675,390
WEISBURGER, JOHN H.....	MECHANISM OF ACTION OF COLON CARCINOGENESIS.....	2R26 CA15400-04	209,316
WYNDER, ERNST L.....	ENVIRONMENTAL CARCINOGENESIS.....	5P01 CA12376-05	565,912
WYNDER, ERNST L.....	ENVIRONMENTAL CARCINOGENESIS.....	5P01 CA12376-06	602,737
WYNDER, ERNST L.....	METABOLIC EPIDEMIOLOGY OF COLON CANCER.....	5R26 CA16382-03	70,313
WYNDER, ERNST L.....	CORE SUPPORT, CANCER CENTER PROGRAM.....	3P01 CA17613-01S1	29,015
WYNDER, ERNST L.....	CORE SUPPORT, CANCER CENTER PROGRAM.....	5P01 CA17613-02	1,211,169
WYNDER, ERNST L.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR05775-01	97,602
ORGANIZATION TOTAL	8	3,461,454	
<b>AMERICAN HEART ASSOCIATION ZIP CODE 10010</b>			
LABARTHE, DARWIN R.....	TRAINING WORKSHOP IN CARDIOVASCULAR EPIDEMIOLOGY.....	2R13 HL18810-02	6,459
ORGANIZATION TOTAL	1	6,459	
<b>AMERICAN MUSEUM OF NATURAL HISTORY ZIP CODE 10024</b>			
ARONSON, LESTER R.....	BEHAVIORAL EFFECTS OF SELECTED DENERVATION.....	5R01 HD00348-15	56,277
ARONSON, LESTER R.....	BEHAVIORAL EFFECTS OF SELECTED DENERVATION.....	5R01 HD00348-16	59,154
ORGANIZATION TOTAL	2	115,431	
<b>AMERICAN SOCIETY FOR CELL BIOLOGY ZIP CODE 10461</b>			
PORTER, KEITH R.....	AN INTERNATIONAL CONGRESS ON CELL BIOLOGY.....	1R13 CA20083-01	44,800
ORGANIZATION TOTAL	1	44,800	
<b>BARNARD COLLEGE ZIP CODE 10027</b>			
BRAINE, LILA G.....	PROCESSING OF ORIENTATION INFORMATION BY CHILDREN.....	1R01 HD09513-01	29,616
ORGANIZATION TOTAL	1	29,616	
<b>BRONX-LEBANON HOSPITAL CENTER ZIP CODE 10456</b>			
EVIATAR, LYDIA.....	OTONEUROLOGICAL EVALUATION OF INFANTS AND CHILDREN.....	5R01 NS10238-05	84,725
ORGANIZATION TOTAL	1	84,725	
<b>BROOKDALE HOSPITAL MEDICAL CENTER ZIP CODE 11212</b>			
PORUSH, JEROME G.....	RENAL SODIUM TRANSPORT IN EXPERIMENTAL ALDOSTERONISM.....	2R01 HL10914-09	55,121
ORGANIZATION TOTAL	1	55,121	
<b>CENTER FOR POLICY RESEARCH ZIP CODE 10027</b>			
GURAK, DOUGLAS T.....	FERTILITY AND ASSIMILATION OF THE FOREIGN BORN.....	3R01 HD08497-01S1	2,000
TREIMAN, DONALD J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05739-04	32,434
ORGANIZATION TOTAL	2	34,434	
<b>CITY UNIVERSITY OF NEW YORK—BROOKLYN COLLEGE ZIP CODE 11210</b>			
ABRAMOV, ISRAEL.....	SPECTRAL PROPERTIES OF CELLS IN THE GOLDFISH RETINA.....	1R01 EY01697-01	53,478
COHEN, IRWIN A.....	ORGANOMETALLIC DERIVATIVES OF BIOLOGICAL COMPOUNDS.....	5R01 AM17331-03	48,425
DONNEE, LOUISE H.....	VISUAL PERCEPTUAL DEVELOPMENT IN INFANCY.....	5R01 HD08706-02	39,293
GUTTMAN, RITA.....	EXCITATION PROCESS IN NERVE.....	5R01 NS12272-02	26,101
HURST, DONALD.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07119-05	17,042
OSMAN, ELI.....	DETECTION AND RECOGNITION IN AUDITION AND VISION.....	5R01 NS10843-03	20,630
SCHUSTER, FREDERICK L.....	CYTOPATHOLOGY INDUCED BY NAEGLERIA INFECTIOUS AGENT.....	5R01 AI12058-03	23,850
ORGANIZATION TOTAL	7	228,819	
<b>CITY UNIVERSITY OF NEW YORK—CITY COLLEGE OF NEW YORK ZIP CODE 10031</b>			
BIRKE, RONALD L.....	REDOX CHEMISTRY OF VITAMIN B12 DERIVATIVES.....	5R01 AM18440-02	32,191
COSLOY, SHARON D.....	MOLECULAR MECHANISM OF RECOMBINATION IN E. COLI K12.....	1R01 GM22562-01	53,129
GROSSFIELD, JOSEPH.....	GENETIC DISSECTION OF BEHAVIOR IN DROSOPHILA.....	5R01 GM21630-02	35,302
LEVINE, LOUIS.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07132-06	28,242
RUSSELL, CHARLOTTE S.....	BIOSYNTHESIS OF UROPORPHYRINOGEN III.....	5R01 AM17890-02	36,289
SCHIFF, GARY.....	THE POLITICS OF POPULATION POLICY: THE CASE OF ISRAEL.....	5R01 HD09165-02	34,034

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
SCHULZ, HORST H.....	FATTY ACID METABOLISM IN HEART AND ITS REGULATION.....	5R01 HL18089-02	54,477
ORGANIZATION TOTAL	7 273,664		
<b>CITY UNIVERSITY OF NEW YORK—GRADUATE SCHOOL AND UNIVERSITY CENTER ZIP CODE 10036</b>			
LEVITT, HARRY.....	ANALYSIS OF ACOUSTIC CHARACTERISTICS OF DEAF SPEECH.....	5R01 NS09252-05	60,026
LEVITT, HARRY.....	ANALYSIS OF ACOUSTIC CHARACTERISTICS OF DEAF SPEECH.....	5R01 NS09252-06	61,857
PARKER, RONALD K.....	LEARNING AND COGNITIVE DEVELOPMENT IN CHILDREN.....	5R01 HD05089-06	101,236
PROSHANSKY, HAROLD M.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07126-05	49,203
STUDEBAKER, GERALD A.....	PAIRED COMPARISON HEARING AID CHARACTERISTIC SELECTION.....	7R01 NS13514-01	102,404
ORGANIZATION TOTAL	5 374,726		
<b>CITY UNIVERSITY OF NEW YORK—HERBERT H. LEHMAN COLLEGE ZIP CODE 10468</b>			
SALTZSTEIN, HERBERT D.....	SOCIAL INFLUENCES ON CHILDREN'S STANDARDS.....	5R01 HD06519-04	44,029
WALLACE, SUSAN S.....	MODIFICATION OF X-RAY INDUCED DAMAGES IN PHAGE T4.....	5R01 CA12693-05	19,524
ORGANIZATION TOTAL	2 63,553		
<b>CITY UNIVERSITY OF NEW YORK—HUNTER COLLEGE ZIP CODE 10021</b>			
ABBOTT, EDWIN H.....	THE GENERAL INTERMEDIATE FOR VITAMIN B-6 CATALYSIS.....	5R01 AM15705-05	50,313
BATES, DANIEL G.....	POPULATION, FAMILY AND PRODUCTION IN RURAL IRAN.....	5R01 HD08892-02	5,900
BEVERIDGE, DAVID L.....	SOLVENT EFFECTS ON BIOMOLECULAR CONFORMATIONAL STABILITY.....	5R01 NS12149-02	49,565
CHAPPELL, RICHARD L.....	NEURAL INTERACTIONS OF THE RETINA.....	5R01 EY00777-05	52,987
FRIEDMAN, S MARVIN.....	STRUCTURE AND FUNCTION OF MEMBRANE-BOUND RIBOSOMES.....	5R01 GM22164-02	43,391
HANDLER, EUGENE S.....	HEMATOPOIETIC COLONY FORMATION IN VIVO.....	1R01 CA19487-01	51,276
HASCHEMEYER, AUDREY E.....	MOLECULAR BASIS OF THYROID ACTION IN DEVELOPMENT.....	5R01 HD04670-06	118,775
HERSKOWITZ, IRWIN H.....	BIBLIOGRAPHY ON THE GENETICS OF DROSOPHILA.....	5R01 GM20705-02	9,390
KRAKOW, JOSEPH S.....	RNA SYNTHESIS BY AZOTOBACTER VINELANDII RNA POLYMERASE.....	5R01 GM18673-05	74,565
KRAKOW, JOSEPH S.....	RNA SYNTHESIS BY AZOTOBACTER VINELANDII RNA POLYMERASE.....	5R01 GM18673-06	88,179
KRAKOW, JOSEPH S.....	STUDIES ON THE CYCLIC AMP RECEPTOR PROTEIN OF E. COLI.....	1R01 GM22619-01	42,878
LICHTER, ROBERT L.....	NATURAL-ABUNDANCE 15N NMR STUDIES FOR BIOCHEMISTRY.....	5R01 GM21148-03	37,734
MAWE, RICHARD C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07109-08	44,817
PENNER, MERRILYNN J.....	TEMPORAL ANALYSIS.....	5R01 NS12085-02	994
RUDNER, RYKA.....	MACROMOLECULAR ASPECTS OF SYNCHRONOUS CELL DIVISION.....	5R01 GM16059-08	49,828
TOMASZ, MARIA.....	BASIS OF THE ANTIBIOTIC ACTION OF THE MITOMYCINS.....	5R01 A08325-08	34,146
ORGANIZATION TOTAL	16 754,738		
<b>CITY UNIVERSITY OF NEW YORK—MOUNT SINAI SCHOOL OF MEDICINE ZIP CODE 10029</b>			
AARONSON, ROBERT P.....	BIOCHEMICAL STUDIES OF THE NUCLEAR PORE COMPLEX.....	5R01 GM21950-02	40,867
ABRAMSON, RUTH G.....	MICROPUNCTURE STUDY OF URATE TRANSPORT IN RAT KIDNEY.....	5R01 AM12872-08	94,006
ACS, GEORGE.....	STUDIES ON CHEMOTHERAPEUTIC DEOXYRIBONUCLEOSIDES.....	5R01 CA16890-03	82,049
BARKA, TIBOR D.....	SALIVARY GLAND HYPERPLASIA AND HYPERTROPHY.....	5R01 CA11155-08	97,262
BARKA, TIBOR D.....	POSTNATAL DIFFERENTIATION OF THE SUBMANDIBULAR GLAND.....	5R01 CA17038-03	58,415
BEATTIE, DIANA S.....	SYNTHESIS OF MITOCHONDRIAL PROTEIN.....	2R01 HD04007-07	49,821
BENTLEY, PETER J.....	PHARMACOLOGY OF LENTICULAR ION TRANSPORT.....	5R01 EY01278-03	31,166
BERL, SOLL.....	AMINO ACIDS & PROTEINS IN BRAIN STRUCTURE & FUNCTION.....	2R01 NS11824-03A1	94,240
BERMAN, A J.....	PURPOSIVE MOVEMENT IN THE ABSENCE OF SENSORY FEEDBACK.....	2R01 NS12330-02A1	54,491
BRODSKY, WILLIAM A.....	RENAL TRANSPORT MECHANISMS.....	5R01 AM16928-03	79,172
BURSTEIN, SHLOMO.....	POLAR CORTICOIDS IN THE GUINEA PIG AND CANCER.....	7R01 CA19102-01	108,096
BURSTEIN, SHLOMO.....	POLAR CORTICOIDS IN THE GUINEA PIG AND CANCER.....	5R01 CA19102-02	142,895
CALHOUN, DAVID H.....	CONTROL OF GENE EXPRESSION BY AN ALLOSTERIC ENZYME.....	1R01 GM23182-01	58,871
CANDIA, OSCAR A.....	ELECTROLYTE AND FLUID TRANSPORT IN OCULAR MEMBRANES.....	3R01 EY00160-06S1	50,753
CHALMERS, THOMAS C.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	2M01 RR00071-13	834,922
CHANG, WILLIAM W.....	CHEMICAL CARCINOGENESIS IN MURINE COLON.....	5R01 CA16065-02	59,942
CHURG, JACOB.....	RENAL, VASCULAR AND PULMONARY STRUCTURE IN DISEASE.....	5R01 AM00918-21	112,652
CHURG, JACOB.....	RENAL, VASCULAR AND PULMONARY STRUCTURE IN DISEASE.....	5R01 AM00918-22	123,936
COHEN, BERNARD.....	THE OCULOMOTOR SYSTEM AND BODY POSTURAL MECHANISMS.....	5R01 NS00294-22	93,584
DE SALEGUI, MIRIAM.....	ANALYSIS OF CILIOINHIBITORY CYSTIC FIBROSIS FACTORS.....	5R01 AM18060-02	76,124
EGGENA, PATRICK.....	NEUROHYPOPHYSEAL HORMONE SECRETION AND ACTION.....	5R01 AM15622-05	48,355
EGGENA, PATRICK.....	NEUROHYPOPHYSEAL HORMONE SECRETION AND ACTION.....	5R01 AM15622-06	70,077
FRIEND, CHARLOTTE.....	FILTERABLE AGENTS AND TUMOR INDUCTION IN MICE.....	5R01 CA10000-10	142,480
FRIEND, CHARLOTTE.....	FILTERABLE AGENTS AND TUMOR INDUCTION IN MICE.....	5R01 CA10000-11	154,971



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
FRIEND, CHARLOTTE	CONTROL MECHANISMS OF DIFFERENTIATION AND MALIGNANCY	5R01 CA13047-05	131,860
GABRILOVE, J LESTER	GYNECOMASTIA: HORMONAL AND TESTICULAR ABNORMALITIES	5R01 HD07685-03	57,743
GARRO, ANTHONY J.	REGULATION OF LYSOGENY IN BACTERIOPHAGE PH105	5R01 GM21541-02	65,773
GITLOW, STANLEY E.	CATECHOLAMINE METABOLISM IN HYPERTENSIVE DISEASES	2R01 HL12648-07	118,402
GLASS, JOHN D.	SOLID-PHASE PEPTIDE SYNTHESIS	2R01 GM18752-04A1	62,764
GREEN, JACK P.	ACH TURNOVER AND CHOLINE METABOLISM IN THE CNS	5R01 NS08829-08	126,442
GREEN, JACK P.	ACH TURNOVER AND CHOLINE METABOLISM IN THE CNS	5R01 NS08829-09	127,648
GREENBERG, MICHAEL L.	KINETICS OF CELL TURNOVER IN LEUKEMIA	5R01 CA10515-09	73,571
GURPIDE, ERLIO	STEROID DYNAMICS IN HUMAN ENDOMETRIAL CANCER	3R01 CA15648-02S1	23,708
GURPIDE, ERLIO	STEROID DYNAMICS IN HUMAN ENDOMETRIAL CANCER	5R01 CA15648-03	102,795
GURPIDE, ERLIO	STEROID DYNAMICS	5R01 HD07197-04	126,663
GURPIDE, ERLIO	STEROID DYNAMICS IN ENDOCRINOLOGY	2R01 HD07197-05	122,546
HENLEY, WALTER L.	COMMON HUMAN AND ANIMAL ANTIGENS IN CORNEA	1R01 EY01689-01A1	91,988
HIRSCHHORN, KURT	STUDY OF PROBLEMS IN CLINICAL GENETICS	5P50 GM19443-05	590,120
HIRSCHHORN, KURT	CELLULAR ASPECTS OF HUMAN GENETICS AND IMMUNOLOGY	5R01 HD02552-10	460,899
HIRSCHMAN, SHALOM Z.	STUDIES ON HEPATITIS ASSOCIATED ANTIGEN	5R01 AI11472-03	24,022
HOLLAND, JAMES F.	SPECIALIZED CANCER CENTER	5P01 CA15936-03	1,435,538
HOLLAND, JAMES F.	ACUTE LEUKEMIA GROUP B OPERATIONS OFFICE	3R10 CA16118-02S1	9,100
HOLLAND, JAMES F.	CANCER AND LEUKEMIA GROUP B	5R10 CA16118-03	1,084,338
JOHNSON, CARL L.	HISTAMINE AND CARDIAC ADENYL CYCLASE	1R01 HL19495-01	60,263
KATSOYANNIS, PANAYOTIS G.	SYNTHETIC INSULINS AND ANALOGS	3R01 AM12925-07S1	46,030
KATZ, ARNOLD M.	ACTIONS OF DRUGS AND IONS ON CARDIAC MEMBRANES	5R01 HL13191-06	134,034
KATZ, ARNOLD M.	CONTROL OF CALCIUM FLUXES ACROSS CARDIAC MEMBRANES	5R01 HL18801-02	67,500
KEHOE, J MICHAEL	AN IMMUNOCHEMICAL STUDY OF HUMAN GAMMA GLOBULINS	5R01 AI09810-07	71,545
KEUSCH, GERALD T.	SHIGELLA EXOTOXIN: CELL RECEPTORS AND MODE OF ACTION	1R01 AI13284-01	59,546
KILBOURNE, EDWIN D.	BIOLOGY AND BIOCHEMISTRY OF INFLUENZA VIRUSES	5R01 AI09304-08	193,960
KIRCHBERGER, MADELEINE A.	CAMP DEPENDENT PROTEIN KINASE IN CARDIAC CONTRACTION	5R01 HL15764-03	37,701
KNITTLE, JEROME L.	EFFECT OF EARLY NUTRITION ON GROWTH AND DEVELOPMENT	3R01 HD03326-08S1	12,107
KNITTLE, JEROME L.	EFFECT OF EARLY NUTRITION ON GROWTH AND DEVELOPMENT	5R01 HD03326-09	127,441
KOFFLER, DAVID	TISSUE INJURY IN SYSTEMIC LUPUS ERYTHEMATOSUS	5R01 AM13721-07	79,951
KOFFLER, DAVID	IMMUNO-DIAGNOSIS OF OVARIAN CARCINOMA	3R01 CA14297-03S1	18,726
KRAKOFF, LAWRENCE R.	RENIN AND VASCULAR HYPER-REACTIVITY IN HYPERTENSION	2R01 HL13595-06	106,047
KRAKOFF, LAWRENCE R.	PATHOGENESIS OF GLUCOCORTICOID HYPERTENSION	5R01 HL16847-03	35,279
KRIEGER, DOROTHY T.	CENTRAL NERVOUS SYSTEM-PITUITARY-ADRENAL INTERRELATIONS	5R01 NS02893-14	109,664
KRULWICH, TERRY A.	INDUCIBLE ENZYMES AND SUGAR TRANSPORT IN ARTHROBACTER	5R01 AM14663-06	30,746
LEONARD, CHRISTIANA M.	NEURAL SUBSTRATE OF BEHAVIORAL DEVELOPMENT	5R01 NS12458-02	52,986
LI, HENG-CHUN	STUDIES ON THE AMIDE TRANSFERASES	5R01 GM19271-03	32,603
LI, STEVEN S.	ANTITUMOR LECTINS RICIN ABRIN AND MOMORDIN	5R01 CA18621-02	40,175
LIEBER, CHARLES S.	BIOCHEMICAL AND FINE STRUCTURAL EFFECTS OF ETHANOL	5R01 AM12511-08	77,586
MILVY, PAUL	RADIOPROTECTION AND SENSITIZATION IN DNA AND BACTERIA	5R01 CA16958-02	64,834
MILVY, PAUL	RADIOPROTECTION AND SENSITIZATION IN DNA AND BACTERIA	5R01 CA16958-03	59,619
MITTAG, THOMAS W.	ROLE OF ACH IN THE CORNEA AND IN OCULAR PRESSURE	5R01 EY01243-03	46,371
MITTAG, THOMAS W.	MEMBRANE-BOUND ENZYMES AND DRUG-RECEPTORS IN MUSCLE	5R01 NS10124-05	52,230
MITTAG, THOMAS W.	MEMBRANE-BOUND ENZYMES AND DRUG-RECEPTORS IN MUSCLE	5R01 NS10124-06	55,368
NICOLIS, GIORGIO L.	HORMONAL STEROIDS IN HUMAN ADRENAL VENOUS BLOOD	5R01 AM16317-03	44,750
NIEMETZ, JULIAN	PROCOAGULANT ACTIVITY OF LEUKOCYTES	5R01 HL13155-07	21,421
ONTELL, MARCIA R.	MUSCLE SATELLITE CELL: REACTION TO DISEASE AND TRAUMA	5R01 NS11835-02	3,284
ORLOWSKI, MARIAN	5-OXOPROLINE, AMINOACIDURIAS AND MENTAL RETARDATION	5R01 AM17113-03	56,542
ORLOWSKI, MARIAN	GLUTATHIONE METABOLISM AND BRAIN AMINO ACID UPTAKE	2R01 NS11018-02	68,634
PALESE, PETER M.	STUDIES WITH SYNTHETIC NEURAMINIDASE SUBSTRATES	5R01 AI11823-03	68,779
PAPATESTAS, ANGELOS E.	THE EFFECTS OF THYMECTOMY IN ONCOGENESIS IN HUMANS	5R01 CA14827-03	29,841
PERTEMLIDIS, DEMETRIUS	HUMAN BILE ACID METABOLISM AND CHOLESTEROL GALLSTONES	5R01 AM17273-03	55,966
PODOS, STEVEN M.	CLINICAL OUTPATIENT CENTER FOR OCULAR PHARMACOLOGY	3P50 EY00340-08S3	97,870
PODOS, STEVEN M.	IN VIVO INHIBITORS OF OCULAR PROSTAGLANDIN SYNTHESIS	5R01 EY01661-02	61,873
PUSZKIN, SAUL	NEUROTRANSMITTERS, SYNAPTOSOMES AND CONTRACTILE PROTEINS	5R01 NS12467-02	83,295
RAYFIELD, ELLIOT J.	CARBOHYDRATE METABOLISM-INFECTION INTERRELATIONSHIPS	5R01 AM18522-02	49,991
ROSENFELD, RICHARD E.	ABO ERYTHROBLASTOSIS	5R01 HD03972-18	96,785
SCHER, WILLIAM	MECHANISM OF ACTION OF DMSO IN FRIEND CELL MATURATION	5R01 CA16682-02	69,508
SCHUSSLER, GEORGE C.	SERUM THYROXINE BINDING AND THYROXINE TURNOVER	7R01 AM19356-01	63,753
SCHWARTZ, IRVING L.	MECHANISM OF ACTION OF PEPTIDE HORMONES	5R01 AM10080-11	81,714



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
SCHWARTZ, IRVING I.	MECHANISM OF ACTION OF PEPTIDE HORMONES	5R01 AM10080-12	83,742
SCOTT, WALTER H.	CHARACTERIZATION OF STEROID-INDUCED PROTEINS	1R01 AM19130-01	71,181
SCOTT, WALTER N.	OCULAR CARBONIC ANHYDRASE	5R01 EY00718-05	94,137
SCOTT, WALTER N.	GENERAL RESEARCH SUPPORT GRANT	5S07 RR05653-09	261,305
SELIKOFF, IRVING J.	ENVIRONMENTAL AGENTS: RELATION TO HUMAN HEALTH EFFECTS	5P30 ES00928-03	949,867
SELIKOFF, IRVING J.	ENVIRONMENTAL AGENTS: RELATION TO HUMAN HEALTH EFFECTS	5P30 ES00928-04	904,384
SILTZBACH, LOUIS E.	FRACTIONATION OF NICKERSON-KVEIM TISSUE SUSPENSIONS	5R01 HL13853-17	123,294
STEINMAN, CHARLES R.	ETIOLOGY OF RHEUMATOID ARTHRITIS RA AND SLE	5R01 AM15544-05	78,641
TAUB, ROBERT N.	IMMUNOTHERAPY OF HUMAN LEUKEMIA (RENEWAL)	5R01 CA12827-05	82,239
TURNER, BRYAN M.	BIOCHEMICAL AND CLINICAL STUDIES IN GAUCHER'S DISEASE	5R01 AM17529-03	65,462
ULICK, STANLEY	DISORDERS OF STEROID HORMONE BIOSYNTHESIS	2R01 AM14040-08	73,835
VAN WOERT, MELVIN H.	SEROTONIN METABOLISM IN MYOCLONUS AND EPILEPSY	5R01 NS12341-02	62,879
WASSERMAN, LOUIS R.	COOPERATIVE STUDY OF ACUTE LEUKEMIA	5R10 CA04457-17	251,058
WASSERMAN, LOUIS R.	COOPERATIVE STUDY OF POLYCYTHEMIA VERA	5R10 CA10728-09	445,452
WASSERMAN, LOUIS R.	LEUKEMIA CENTER PLATELET PROGRAM	5R01 CA11816-16	115,454
WAXMAN, SAMUEL	NOVEL TRANSPORT GLYCOPROTEINS IN HEPATOMA	5R01 CA14491-03	35,451
WERTHER, J. LAWRENCE	ABSORPTION OF CARCINOGENS AND MUCOSAL BARRIER FUNCTION	5R01 CA15541-02	51,934
WETMUR, JAMES G.	RENATURATION AND HYBRIDIZATION OF NUCLEIC ACIDS	2R01 GM22029-02	51,749
WETMUR, JAMES G.	RENATURATION AND HYBRIDIZATION OF NUCLEIC ACIDS	5R01 GM22029-03	46,606
WOLF, BERNARD S.	CEREBRAL VEINS—ANATOMIC AND RADIOLOGICAL CORRELATIONS	2R01 HL09913-11	68,500
WYSSBROD, HERMAN R.	CORRELATION OF ION TRANSPORT WITH METABOLISM	5R01 AM13953-06	53,163
YAIR, MELVIN D.	CLINICAL CENTER FOR RESEARCH ON PARKINSON'S DISEASE	2P50 NS11631-03	543,944
YU, TS'AI-FAN	PURINE METABOLISM AND GOUTY ARTHRITIS	5R01 AM00162-25	79,568
ZANJANI, ESMAIL D.	REGULATION OF CELLULAR PROLIFERATION IN NEOPLASTIC STATE	1R01 CA18755-01	57,107
ORGANIZATION TOTAL	108	14,872,337	
<b>CITY UNIVERSITY OF NEW YORK—QUEENS COLLEGE ZIP CODE 11367</b>			
BERKOWITZ, WILLIAM F.	CONVERSION OF IRIDOIDS TO PROSTAGLANDINS	5R01 GM22098-02	37,718
BITTMAN, ROBERT	CHOLESTEROL AND OTHER LIPIDS IN MEMBRANE FUNCTION	5R01 HL16660-04	54,876
BOYLAN, ELIZABETH S.	FETAL EXPOSURE TO HORMONES AND MAMMARY CARCINOGENESIS	1R01 CA18458-01	48,488
KIRMAN, JACOB H.	TACTILE COMMUNICATION OF SPEECH TO THE DEAF	2R01 NS06205-08	83,159
MICHEL, CORINNE A.	YEAST: A MODEL FOR STUDYING REGULATION IN CANCER CELLS	5R01 CA18394-02	54,951
TROPP, BURTON E.	A CHEMICAL REGULATOR OF PHOSPHOLIPID METABOLISM	5R01 GM21400-03	38,484
ORGANIZATION TOTAL	6	317,676	
<b>CITY UNIVERSITY OF NEW YORK—RICHMOND COLLEGE ZIP CODE 10301</b>			
NAIDER, FRED R.	PEPTIDE TRANSPORT IN MICROORGANISMS	5R01 GM22086-02	27,490
ORGANIZATION TOTAL	1	27,490	
<b>CITY UNIVERSITY OF NEW YORK—YORK COLLEGE ZIP CODE 11432</b>			
HAMPTON, SUZANNE H.	REPRODUCTIVE BIOLOGY OF MARMOSETS	5R01 HD08695-03	43,557
HAMPTON, SUZANNE H.	INDEPENDENT RESEARCH TRAINING FOR BIOMEDICAL CAREERS	1S06 RR08153-01	68,805
ORGANIZATION TOTAL	2	112,362	
<b>COLUMBIA UNIVERSITY ZIP CODE 10027</b>			
ALTSCHULER, KENNETH Z.	TRAUMA AND SLEEP PHYSIOLOGY	1R01 GM22515-01	90,289
ANDERSON, ETHEL I.	INTERMEDIARY METABOLISM OF THE CORNEA	3R01 EY00699-05S1	5,895
ANDERSON, ETHEL I.	INTERMEDIARY METABOLISM OF THE CORNEA	2R01 EY00699-06	58,837
APRIL, ERNEST W.	THE MYOFILAMENT LATTICE: MORPHOLOGY AND FUNCTION	2R01 AM15876-04	51,379
APRIL, ERNEST W.	THE MYOFILAMENT LATTICE: MORPHOLOGY AND FUNCTION	5R01 AM15876-05	42,820
AXEL, RICHARD	MOLECULAR CONTROL OF CHROMATIN TRANSCRIPTION	5R01 CA16346-02	76,356
BALAZS, ENDRE A.	HYALURONIC ACID IN EXPERIMENTAL ARTHRITIS	7R01 AM19744-01	58,017
BALAZS, ENDRE A.	BASIC OPHTHALMIC RESEARCH PROGRAM	5P30 EY00396-09	157,204
BALAZS, ENDRE A.	PHYSIOLOGY AND PATHOLOGY OF THE VITREOUS	7R01 EY01747-01	29,771
BALAZS, ENDRE A.	PHYSIOLOGY AND PATHOLOGY OF THE VITREOUS	2R01 EY01747-02	180,367
BANCROFT, F. CARTER	REGULATION OF GROWTH HORMONE MESSENGER RNA	5R01 GM21000-03	27,543
BANK, ARTHUR	COOPERATIVE STUDY OF ACUTE LEUKEMIA	5R10 CA12011-05	74,924
BANK, ARTHUR	ISOLATION AND CHARACTERIZATION OF HUMAN GLOBIN GENES	1R01 GM23143-01	52,400
BARRON, BRUCE A.	STATISTICAL STUDIES OF GYNECOLOGICAL CANCERS	1R01 CA19145-01	45,850
BASSETT, C. ANDREW	BIOELECTRIC PHENOMENA CONTROLLING BONE GROWTH	5R01 AM07822-13	96,189

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
BENESCH, RUTH E.....	STRUCTURE AND FUNCTION IN HEMOGLOBINS.....	3R01 HL05791-15S1	13,798
BENESCH, RUTH E.....	STRUCTURE AND FUNCTION IN HEMOGLOBINS.....	2R01 HL05791-16	28,146
BENESCH, RUTH E.....	CHEMICAL MODIFICATION SICKLING INHIBITION OF HEMOGLOBIN.....	5R01 HL17552-02	43,692
BERNE, BRUCE J.....	MOLECULAR DYNAMICS AND LIGHT SCATTERING OF FLUIDS.....	1R01 NS12714-01	45,958
BERSOHN, RICHARD.....	BIFUNCTIONAL STUDIES OF PROTEINS.....	2R01 GM19019-13	55,020
BEYCHOK, SHERMAN.....	PROTEINS OF PLASMA CELL CANCERS.....	5R01 CA13014-05	58,950
BEYCHOK, SHERMAN.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07060-11	122,834
BITO, LASZLO Z.....	OCULAR FLUID COMPOSITION AND OCULAR TISSUE PHYSIOLOGY.....	3R01 EY00333-09S1	39,099
BITO, LASZLO Z.....	OCULAR FLUID COMPOSITION AND OCULAR TISSUE PHYSIOLOGY.....	2R01 EY00333-10	74,227
BITO, LASZLO Z.....	THE CONTROL OF TISSUE-SENSITIVITY TO AUTONOMIC AGENTS.....	3R01 EY00402-08S1	12,508
BITO, LASZLO Z.....	THE CONTROL OF TISSUE-SENSITIVITY TO AUTONOMIC AGENTS.....	2R01 EY00402-09	47,680
BLOOM, ARTHUR D.....	MUTAGENESIS IN CULTURED LYMPHOCYTES.....	1R01 ES01293-01	184,783
BLOOM, ARTHUR D.....	MUTAGENESIS IN CULTURED LYMPHOCYTES.....	5R01 ES01293-02	200,700
BLOOM, ARTHUR D.....	GENE FUNCTION IN CULTURED HUMAN LYMPHOCYTES.....	5R01 GM22052-02	84,380
BRADLEY, STANLEY E.....	INTRARENAL HETEROGENEITIES IN SHORT-NEPHRON DISORDER.....	5R01 AM16409-03	78,584
BRANDT, PHILIP W.....	CELL PHYSIOLOGY CORRELATED WITH ULTRASTRUCTURE.....	5R01 NS05910-10	52,047
BRASEL, JO ANNE.....	NUTRITION AND CELL GROWTH.....	5R01 HD07195-04	32,148
BRASEL, JO ANNE.....	NUTRITION AND ADIPOCYTE GROWTH AND DEVELOPMENT.....	5R01 HD08965-02	75,296
BRASEL, JO ANNE.....	NUTRITION AND ADIPOCYTE GROWTH AND DEVELOPMENT.....	5R01 HD08965-03	90,050
BRESLOW, RONALD C.....	SYNTHESIS OF NOVEL CONJUGATED MOLECULES.....	5R01 GM13651-11	62,881
BRESLOW, RONALD C.....	BIOCHEMICAL MODEL REACTIONS.....	5R01 GM18754-15	65,173
BRYANT, JOHN H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05449-15	113,584
BUTLER, VINCENT P, JR.....	DIGOXIN-SPECIFIC ANTIBODIES.....	5R01 HL10608-10	81,563
CALVIN, HAROLD I.....	PROTEINS OF MAMMALIAN SPERM ATOTZOEA.....	5R01 HD05316-05	68,404
CANFIELD, ROBERT E.....	THE CHEMISTRY AND LOCALIZATION OF PROTEIN HORMONES.....	5R01 AM09579-11	134,911
CANFIELD, ROBERT E.....	CHEMICAL STUDIES OF HORMONES AND METABOLIC DISORDERS.....	2R01 AM09579-12	147,215
CANNON, PAUL J.....	CIRCULATORY FUNCTION AND ELECTROLYTE METABOLISM.....	5R01 HL10182-11	75,163
CANNON, PAUL J.....	THE REGIONAL CIRCULATIONS.....	3R01 HL14148-04S2	45,850
CANNON, PAUL J.....	THE REGIONAL CIRCULATIONS.....	2R01 HL14148-05	198,678
CANTOR, CHARLES R.....	NEW TECHNIQUES FOR COMPLEX MACROMOLECULAR ASSEMBLIES.....	5R01 GM14825-10	88,301
CANTOR, CHARLES R.....	A HIGH RESOLUTION X-RAY REFLECTION MICROSCOPE.....	5R01 GM19843-04	98,639
CARPENTER, MALCOLM B.....	VESTIBULAR SYSTEM.....	5R01 NS01538-18	45,152
CARPENTER, MALCOLM B.....	ANATOMY OF BASAL GANGLIA AND RELATED NUCLEI.....	2R01 NS04082-14	27,663
CHANG, CHU H.....	COOPERATIVE STUDY OF RADIATION THERAPY.....	2R10 CA14060-04	50,094
CHASIN, LAWRENCE A.....	MITOTIC RECOMBINATION IN CULTURED MAMMALIAN CELLS.....	1R01 GM22629-01	38,043
CHASIN, LAWRENCE A.....	MITOTIC RECOMBINATION IN CULTURED MAMMALIAN CELLS.....	5R01 GM22629-02	53,257
CHIEN, SHU.....	RHEOLOGICAL CHANGES IN HEMORRHAGIC SHOCK.....	3R01 HL06139-15S1	73
CHIEN, SHU.....	HUMAN RED CELL MEMBRANE IN HEALTH AND DISEASE.....	5P01 HL16851-02	373,127
COLE, PATRICIA E.....	RNA CONFORMATION AND PROTEIN-RNA RECOGNITION.....	5R01 GM21352-02	40,072
COLEMAN, D JACKSON.....	ULTRASONIC EVALUATION OF OCULAR TISSUES.....	5R01 EY01218-03	69,920
COTE, LUCIEN J.....	4-O-CH3 CATECHOLS IN HUMAN BRAIN AND CSF.....	2R01 NS12397-02	37,623
CURNEN, MARY G.....	CANCER RISK IN PROFESSIONAL & OCCUPATIONAL GROUPS.....	5R01 CA17480-02	106,050
D'ALESSANDRO, PHILIP A.....	COMPARATIVE STUDY OF TRYPAANOSOMAL EXOANTIGENS.....	7R01 AI13387-01	31,569
DAILEY, BENJAMIN P.....	DEUTERIUM NMR AS A PROBE OF MOLECULAR STRUCTURE.....	5R01 GM22310-02	54,112
DESPOMMIER, DICKSON D.....	POLYMER ANTIGENS OF TRICHINELLA SPIRALIS.....	5R01 AI10627-06	40,566
DISCHKE, ZACHARIAS.....	FUNCTIONAL ANTIGENS IN NEOPLASTIC DISEASE.....	5R01 CA02075-22	29,691
DONN, ANTHONY.....	PHYSIOLOGICAL STUDIES OF THE LIVING CORNEA IN VITRO.....	5R01 EY00210-16	51,463
EAKINS, KENNETH E.....	OCULAR EFFECTS OF PROSTAGLANDINS.....	5R01 EY00457-08	94,410
EISENBERG, MAX A.....	BIOTIN, BIOGENESIS, TRANSPORT, AND THEIR REGULATION.....	2R01 AM14450-06	57,039
EISENBERG, MAX A.....	BIOTIN, BIOGENESIS, TRANSPORT, AND THEIR REGULATION.....	5R01 AM14450-07	63,144
EISENTHAL, KENNETH B.....	PICOSECOND LASER STUDIES OF HEME-PROTEINS.....	1R01 HL19488-01	46,221
ELWYN, DAVID H.....	INTERORGAN MOVEMENTS OF AMINO ACIDS.....	5R01 HL18622-03	45,760
ERLANGER, BERNARD F.....	IMMUNOCHEMICAL STUDIES OF NUCLEIC ACIDS.....	2R01 AI06860-11	79,218
FAHN, STANLEY.....	IMMUNOHISTOCHEMICAL LOCALIZATION OF NEUROTRANSMITTERS.....	5R01 NS12036-02	64,967
FAHN, STANLEY.....	IMMUNOHISTOCHEMICAL LOCALIZATION OF NEUROTRANSMITTERS.....	5R01 NS12036-03	68,639
FINCH, GERALD B.....	POPULATION CHANGE AND POLITICAL CHANGE IN AMERICA.....	5R01 HD09423-02	37,170
FISCHBARG, JORGE.....	CORNEAL TRANSPARENCY AND ACTIVE TRANSPORT MECHANISMS.....	5R01 EY00727-06	30,248
FISCHBARG, JORGE.....	BIOELECTRICAL PROPERTIES OF CORNEAL ENDOTHELIUM.....	2R01 EY01080-04	52,531
FLEIS, JOSEPH L.....	STATISTICAL METHODS IN DENTAL RESEARCH.....	5R01 DE04068-02	43,442
FOX, CHARLES L, JR.....	TOPICAL THERAPY OF INFECTED WOUNDS AND BURNS.....	5R01 GM18275-05	68,998

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
FOX, CHARLES L. JR.	TOPICAL THERAPY OF INFECTED WOUNDS AND BURNS	5R01 GM18275-06	84,672
FRANTZ, ANDREW G.	STUDIES ON PROLACTIN	5R01 CA11704-06	88,092
FREDA, VINCENT J.	MANAGEMENT OF THE RH PROBLEM IN OBSTETRICS	5R01 HD08728-02	69,181
GERSHON, MICHAEL D.	NEURAL CONTROL OF GASTROINTESTINAL ACTIVITY	7R01 NS12969-01	82,566
GILMAN, SID	NEUROPHYSIOLOGICAL MECHANISMS OF HYPERTONIA	5R01 NS10612-02	62,801
GILMAN, SID	NEUROPHYSIOLOGICAL MECHANISMS OF HYPERTONIA	5R01 NS10612-03	68,226
GILMAN, SID	ROSTRAL PROJECTIONS OF THE VESTIBULAR SYSTEM	5R01 NS11307-02	62,631
GILMAN, SID	ROSTRAL PROJECTIONS OF THE VESTIBULAR SYSTEM	5R01 NS11307-03	64,282
GILMAN, SID	CEREBELLAR STIMULATION IN EXPERIMENTAL EPILEPSY	5R01 NS11981-02	78,182
GILMAN, SID	CEREBELLAR STIMULATION IN EXPERIMENTAL EPILEPSY	5R01 NS11981-03	81,091
GINSBERG, HAROLD S.	BIOCHEMICAL CHANGES—ADENO-INFECTED & TRANSFORMED CELLS	5R01 AI12052-03	101,727
GINSBERG, HAROLD S.	BIOCHEMICAL CHANGES—ADENO-INFECTED & TRANSFORMED CELLS	5R01 AI12052-04	107,344
GINSBERG, HAROLD S.	STUDY OF THE MECHANISMS OF VIRAL ECLIPSE AND ASSEMBLY	2R01 AI12053-03	98,210
GINSBERG, HAROLD S.	STUDY OF THE MECHANISMS OF VIRAL ECLIPSE AND ASSEMBLY	5R01 AI12053-04	107,148
GOODMAN, GABRIEL C.	CELL INJURY BY ACTINOMYCIN AND RELATED CARCINOGENS	5R01 CA13835-04	77,185
GOODMAN, DE WITT S.	STUDIES IN LIPID METABOLISM	5R01 AM05968-16	107,755
GREER, JONATHAN	STRUCTURE AND FUNCTION OF BLOOD PROTEINS	5R01 HL16601-03	51,888
GUNTAKA, RAMAREDDY V.	STRUCTURE AND FUNCTION OF AVIAN SARCOMA VIRAL DNA	1R01 CA19152-01	75,151
HALL, ERIC J.	RADIOLOGICAL STUDIES RELATED TO HIGH LET RADIOTHERAPY	1R01 CA18506-01	95,362
HANSON, RONALD L.	MECHANISM OF ENERGY-DRIVEN TRANSHYDROGENASE	1R01 GM23092-01	42,699
HARBER, LEONARD C.	PHOTOSENSITIVITY: ENVIRONMENTAL AND OTHER FACTORS	5R01 ES01041-03	118,099
HARVEY, REJANE M.	LUNG DISEASE AND THE OXYGENATION OF BLOOD AND TISSUE	5P01 HL17813-02	326,384
HEMBREE, WYLLIE C. III.	TRITIATED PEPTIDES/PROTEINS IN ENDOCRINE BIOCHEMISTRY	5R01 AM16735-03	66,061
HEMBREE, WYLLIE C. III.	ENDOCRINE ASPECTS OF PEPTIDE HORMONE METABOLISM	5R01 AM17634-03	52,014
HENDERSON, ANN S.	HUMAN GENE SITE LOCALIZATION USING HYBRIDIZATION IN SITU	5R01 GM21833-02	16,710
HERBERT, VICTOR D.	VITAMIN B12 AND FOLIC ACID METABOLISM	3R01 AM15163-06S1	10,700
HERBERT, VICTOR D.	VITAMIN B12 AND FOLIC ACID METABOLISM	5R01 AM15163-07	127,538
HILAL, SADEK K.	GUIDED VASCULAR OBLITERATION OF CNS VASCULAR LESIONS	2R01 HL15781-04	52,251
HILAL, SADEK K.	NEUROTOXICITY OF ANGIOGRAPHIC CONTRAST AGENTS	5R01 NS11994-02	17,709
HOCHBERG, JULIAN	VISUAL INTEREST-MAINTENANCE IN CHILDREN AND ADULTS	5R01 HD06768-02	47,752
HOFFMAN, BRIAN F.	CARDIAC CONDUCTIVITY AND AUTOMATICITY	2R01 HL08508-13	83,611
HOFFMAN, BRIAN F.	PHYSIOLOGIC PHARMACOLOGY AND ITS CLINICAL APPLICATIONS	5P01 HL12738-08	1,139,249
HOLLYFIELD, JOE G.	EXPERIMENTAL ANALYSIS OF RETINAL DEVELOPMENT	5R01 EY00624-06	19,858
HOLLYFIELD, JOE G.	PHAGOCYTIC ACTIVITY OF THE PIGMENT EPITHELIUM	1R01 EY01632-01	38,836
HOLTZMAN, ERIC	TRANSPORT AND MEMBRANE CIRCULATION IN NERVOUS TISSUE	5R01 NS09475-06	56,661
HOLTZMAN, ERIC	INTRANEURONAL MEMBRANE CIRCULATION AND TRANSPORT	2R01 NS09475-07	65,586
HOOD, DONALD C.	PHYSIOLOGICAL ADJUSTMENT TO AMBIENT LIGHT LEVELS	1R01 EY01877-01	25,296
IMAMOTO, TAKEO	ELECTRON MICROSCOPY OF THE EYE	5R01 EY00190-20	110,123
JAGIELLO, GEORGIANA M.	GONADOTROPHIN CONTROL OF HUMAN FEMALE MEIOSIS	2R01 HD05862-06	48,766
JAGIELLO, GEORGIANA M.	CYTOGENETICS OF FEMALE MAMMALIAN MEIOSIS	1R01 HD10037-01	97,876
JAMES, I. STANLEY	SUPPORT FOR LUNG CENTER FOR NEWBORNS	3P50 HL14218-05S2	296,911
JOHNSON, WILLIAM G.	GENETIC NEURAL TUMORS: CELL SURFACE ALTERATIONS	5R01 CA18172-02	42,420
KANDEL, ERIC R.	CELLULAR ANALYSES OF BEHAVIOR	1P01 GM23540-01	338,510
KARLIN, ARTHUR	MOLECULAR PROPERTIES OF TWO ACETYLCHOLINE RECEPTORS	2R01 NS07065-10	114,160
KATZ, THOMAS J.	SYNTHESIS OF RING SYSTEMS	2R01 GM19173-13	83,936
KINNEY, JOHN M.	MUSCLE AMINOACIDS AND FAT TOLERANCE IN CANCER PATIENTS	1R01 CA21008-01	72,303
KINNEY, JOHN M.	INFLUENCE OF ACUTE ILLNESS AND INJURY ON ENERGY EXCHANGE	2P50 GM14546-10A1	487,108
KINNEY, JOHN M.	INFLUENCE OF ACUTE ILLNESS AND INJURY ON ENERGY EXCHANGE	5P50 GM14546-11	513,430
KIRSTEN, EDWARD B.	PHYSIOLOGY & PHARMACOLOGY OF MOTION-MODULATED NEURONS	5R01 NS11858-02	15,688
KOOPMANS, HENRY S.	THE SATIATION OF HUNGER	5R01 AM17926-02	42,287
KOOPMANS, HENRY S.	THE SATIATION OF HUNGER	5R01 AM17926-03	40,679
KRASNA, ALVIN I.	STRUCTURE AND MECHANISM OF ACTION OF HYDROGENASE	5R01 GM22283-02	66,125
KROOTH, ROBERT S.	GENE CONTROL OF MAMMALIAN CELL DIFFERENTIATION	3P01 GM18153-05S1	129,664
KROOTH, ROBERT S.	GENE ACTION IN CULTURED HUMAN AND OTHER MAMMALIAN CELLS	1R01 GM22103-01	205,836
LEVINTHAL, CYRUS	NEURAL DEVELOPMENT: GENETIC & ENVIRONMENTAL CONTROL	5R01 NS09821-06	116,558
LEVINTHAL, CYRUS	COMPUTER RESOURCE FOR IMAGE PROCESSING AND DISPLAYS	5P41 RR00442-07	238,125
LEVINTHAL, CYRUS	COMPUTER RESOURCE FOR IMAGE PROCESSING AND DISPLAYS	2P41 RR00442-08	455,577
LEWIS, JAMES A.	SENSORY NERVE DEVELOPMENT	5R01 NS12399-02	35,859
LEWIS, ROBERT A.	STUDIES IN POPULATION CHANGE	2R01 HD05585-05	52,186
LI, LU-KU	SUBUNIT INTERACTIONS OF LENS PROTEIN	5R01 EY00032-06	58,468



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
LIEBERMAN, SEYMOUR	APPLICATION OF CHEMICAL METHODS TO STEROID METABOLISM	5R01 AM00110-25	49,870
LIEBERMAN, SEYMOUR	STUDIES OF REPRODUCTIVE BIOCHEMISTRY AND MEDICINE	3P01 HD05077-06A1S2	10,578
LIEBERMAN, SEYMOUR	STUDIES OF REPRODUCTIVE BIOCHEMISTRY AND MEDICINE	5P01 HD05077-07	371,751
LINKIE, DANIEL M.	ESTROGEN RECEPTORS HYPOTHALAMIC-PITUITARY INTERACTIONS	1R01 HD10090-01	59,373
LIPPARD, STEPHEN J.	METAL BINDING TO POLYNUCLEOTIDES: PROBES AND DRUGS.	5R01 CA15826-03	67,097
LIPPARD, STEPHEN J.	LIGAND-BRIDGED BINUCLEAR METAL COMPLEXES AND PROTEINS.	2R01 GM16449-08	55,010
LIPPARD, STEPHEN J.	LIGAND-BRIDGED BINUCLEAR METAL COMPLEXES AND PROTEINS.	5R01 GM16449-09	61,041
LITWAK, EUGENE	RETIREMENT, MIGRANTS & TASKS OF ORGANIZATIONS & FAMILY	1R01 AG00654-01	154,825
LOW, BARBARA W.	STUDIES OF PROTEIN CONFORMATION	5R01 GM21632-02	20,187
LOW, BARBARA W.	THE STRUCTURE OF OXYTOCIN AND ITS ANALOGS.	5R01 HD09171-02	33,417
LOW, BARBARA W.	STRUCTURE OF NEUROTOXINS—ERABUTOXINS AND LATICOTOXIN	5R01 NS07747-07	50,077
MACAGNO, EDUARDO R.	INVARIANCE OF SYNAPTIC PATHWAYS	5R01 NS11738-02	37,315
MANDEL, IRWIN D.	DENTAL DEPOSITS - NATURE AND PATHOGENICITY	5R01 DE01554-15	94,812
MANSKI, WLADYSLAW J.	IMMUNOLOGICAL OBSERVATIONS ON OCULAR LENS IN CATARACT	5R01 EY00189-21	115,330
MANSKI, WLADYSLAW J.	EFFECTS OF ANTIOCTULAR ANTIBODIES ON OCULAR TISSUES	5R01 EY00198-18	56,247
MARKS, PAUL A.	SUPPORT FOR CLINICAL CANCER RESEARCH CENTER	5P30 CA13696-04	1,313,710
MARKS, PAUL A.	SUPPORT FOR CLINICAL CANCER RESEARCH CENTER	2P30 CA13696-05	1,719,644
MARKS, PAUL A.	LEUKEMIA CELL SYSTEMS: INDUCTION OF DIFFERENTIATION	1R01 CA18314-01	93,010
MARKS, PAUL A.	NORMAL/ABNORMAL CELL GROWTH MULTIDISCIPLINARY STUDY	5P01 GM14552-10	138,432
MARKS, PAUL A.	NORMAL/ABNORMAL CELL GROWTH MULTIDISCIPLINARY STUDY	5P01 GM14552-11	175,189
MATIN, LEONARD	EYE MOVEMENTS AND VISUAL DIRECTION	5R01 EY00375-07	88,074
MELLINS, ROBERT B.	RESPIRATORY CONTROL IN EARLY LIFE	5R01 HD08297-03	84,912
MILCAREK, CHRISTINE A.	REGULATION AND ADENYLATION OF CYTOPLASMIC MRNA	1R01 GM22893-01	55,553
MILLER, ORLANDO J.	SUPPRESSION OF MALIGNANCY IN CELL HYBRIDS	2R01 CA10534-06	71,457
MILLER, ORLANDO J.	IMMUNOCYTOGENETICS OF SOMATIC CELL HYBRIDS	1R01 GM22966-01	51,653
MORGAN, COUNCILMAN	ULTRASTRUCTURAL STUDY OF VIRAL ENTRY AND DEVELOPMENT	2R01 AI06814-11	26,200
MORRISON, SHERIE L.	GENETICS AND BIOCHEMISTRY OF MYELOMA IGA PRODUCTION	5R01 CA16858-02	53,476
MORRISON, SHERIE L.	GENETICS AND BIOCHEMISTRY OF MYELOMA IGA PRODUCTION	5R01 CA16858-03	50,417
MORSE, JANE H.	ROLE OF SERUM COMPLEMENT IN DISEASE	5R01 HL10049-11	55,577
NAKANISHI, KOJI	INSECT AND CRUSTACEAN HORMONES AND PHEROMONES	5R01 AI01087-06	100,438
NAKANISHI, KOJI	STRUCTURAL AND BIOORGANIC STUDIES OF NATURAL PRODUCTS	5R01 CA11572-07	110,912
NAKANISHI, KOJI	STRUCTURAL AND BIOORGANIC STUDIES OF NATURAL PRODUCTS	5R01 CA11572-08	112,619
NAKANISHI, KOJI	STRUCTURAL AND CONFORMATIONAL STUDIES OF VISUAL PIGMENTS	2R01 EY01253-03	17,485
NAKANISHI, KOJI	PIGMENT FORMATION WITH RETINALS	1R01 EY01811-01	62,033
NASTUK, WILLIAM L.	CHOLINERGIC RECEPTOR ACTIVATION AND DESENSITIZATION	5R01 NS04988-13	49,136
NATTA, CLAYTON L.	MECHANISMS OF THE INHIBITION OF SICKLING BY DBA	1R01 HL19324-01	42,834
NGAI, SHIH-HSUN	ANESTHESIOLOGY	5P50 GM09069-14	509,179
NOBACK, CHARLES R.	MICROMORPHOLOGY OF BRAIN DURING EARLY MALNUTRITION	5R01 NS12436-02	41,456
NOSSEL, HYMIE L.	STUDY OF THROMBOSIS	5P01 HL15486-04	571,331
NUNEZ, ELADIO A.	STUDIES OF THE PARAFOLLICULAR CELL OF THE THYROID GLAND	7R01 AM19743-01	69,608
OZANICS, VICTORIA	FUNCTIONAL DEVELOPMENT OF THE EYE	5R01 EY00184-03	61,234
PANG, LEILA M.	VASOACTIVE CHEMICAL MEDIATORS AND NEONATAL RDS.	1R23 HL19613-01	38,990
PASCAL, ROBERT R.	GLOMERULONEPHRITIS IN LYMPHORETICULAR CANCER	3R01 CA16179-01A1S1	3,946
PIRANI, CONRAD L.	STUDIES OF HUMAN AND EXPERIMENTAL RENAL DISEASES.	5R01 HL16603-03	93,510
PITT, JANE	MILK AND PASSIVE CELLULAR IMMUNITY OF THE NEWBORN	5R01 HD09139-02	42,444
POH, MAUREEN B.	ERYTHROPOIETIC PROTOPORPHYRIA: MECHANISM OF DISEASE	1R01 AM18549-01A1	51,368
PRICE, JOHN B, JR.	CONTROL FACTORS IN HEPATIC REGENERATION	5R01 AM07646-13	89,960
REEMTSMA, KEITH	IMMUNOLOGIC & PHYSIOLOGIC STUDY OF HEART TRANSPLANTATION	5R01 HL14799-05	78,446
REUBEN, JOHN P.	TENSION REGULATION IN HEART AND SKELETAL MUSCLE	5R01 HL16082-03	26,545
RIVLIN, RICHARD S.	HORMONAL AND NUTRITIONAL REGULATION OF METABOLISM	5R01 AM15265-06	61,089
RIVLIN, RICHARD S.	REGULATORY MECHANISMS IN NORMAL NEOPLASTIC CELLS	5R01 CA12126-05	62,736
ROBBINS, HERBERT E.	SEQUENTIAL CLINICAL TRIALS AND COMPETING RISKS	3R01 GM16895-07S1	19,199
ROSEN, MICHAEL R.	PEDIATRIC CARDIAC ELECTROPHYSIOLOGY AND PHARMACOLOGY	5R01 HL17766-02	36,245
ROSENBERRY, TERRONE L.	PROTEINS IN EXCITABLE MEMBRANES	5R01 NS03304-15	79,479
ROSSI, HARALD H.	EFFECTS OF SMALL DOSES OF IONIZING RADIATION	2P01 CA12536-06	288,280
ROSSI, HARALD H.	CELL IRRADIATIONS WITH MOLECULAR IONS	5R01 CA15307-03	63,718
ROSSO, PEDRO P.	MATERNAL MALNUTRITION AND TRANSFER OF NUTRIENTS	5R01 HD09509-02	14,969
ROSSO, PEDRO P.	POSTNATAL EFFECTS OF A MATERNAL HIGH VITAMIN C INTAKE	1R01 HD10167-01	35,247
ROWLAND, LEWIS P.	CLINICAL RESEARCH CENTER FOR NEUROMUSCULAR DISEASE	5P01 NS11766-03	468,998
SAWYER, WILBUR H.	NEUROHYPOPHYSIAL REGULATION OF WATER EXCRETION	2R01 AM01940-18	119,486



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
SAWYER, WILBUR H.	NEUROHYPOPHYSIAL REGULATION OF WATER EXCRETION	5R01 AM01940-19	118,460
SCHACHTER, DAVID	THE TRANSPORT OF CALCIUM	2R01 AM01483-20	100,011
SCHWARTZ, JAMES H.	BIOCHEMICAL STUDIES IN IDENTIFIED NEURONS	5R01 NS12066-03	103,454
SILVERMAN, ANN-JUDITH	DEVELOPMENT OF THE ENDOCRINE HYPOTHALAMUS	7R01 HD10665-01	28,558
SILVERSTEIN, SAUL J.	THE MOLECULAR BIOLOGY OF HERPES VIRUS SAIMIRI	5R01 CA17477-02	52,824
SKOGERSON, LAWRENCE E.	GENETIC CONTROL OF MACROMOLECULAR SYNTHESIS	5R01 GM21620-05	23,413
SMITH, JEANNE A.	COMPREHENSIVE SICKLE CELL CENTER	5P60 HL15161-05	614,662
SPECTOR, ABRAHAM	STUDY OF DEVELOPMENT OF CATARACT OF THE LENS	5R01 EY00423-08	126,942
SPECTOR, ABRAHAM	STUDIES OF THE EFFECTS OF AGING ON THE OCULAR LENS	5R01 EY00759-05	111,599
SPENCER, WILLIAM A.	PLASTICITY OF THE SIMPLEST NEURONAL PATHWAYS	2R01 NS12744-02	133,278
SPENCER, WILLIAM A.	PLASTICITY OF THE SIMPLEST NEURONAL PATHWAYS	5R01 NS12744-03	145,756
SPIEGELMAN, SOL	CLINICAL & LABORATORY NORMAL & ABNORMAL GROWTH STUDIES	5P01 CA02332-22	3,110,933
SPRINSON, DAVID B.	REGULATION OF ERGOSTEROL AND CHOLESTEROL BIOSYNTHESIS	5R01 AM00546-25	57,768
SPRINSON, DAVID B.	REGULATION OF ERGOSTEROL AND CHOLESTEROL BIOSYNTHESIS	5R01 AM00546-26	62,512
SRINIVASAN, B D.	CELL DIVISION AND DIFFERENTIATION IN THE CONJUNCTIVA	5R23 EY01557-02	9,668
SRINIVASAN, P R.	REGULATION OF TRANSCRIPTION IN VIRUS INFECTED CELLS	5R01 AI12132-03	58,009
ST JOHN, WALTER M.	BRAIN STEM INTEGRATION OF CHEMORECEPTOR ACTIVITY	5R01 HL18009-02	18,141
STERLING, KENNETH	THYROXINE BINDING PROTEIN AND HORMONE UTILIZATION	2R01 AM10739-11A1	64,123
STORK, GILBERT	SYNTHESIS OF BIOLOGICALLY ACTIVE NATURAL PRODUCTS	2R01 GM05147-19	102,410
STORK, GILBERT	SYNTHESIS OF BIOLOGICALLY ACTIVE NATURAL PRODUCTS	5R01 GM05147-20	113,398
STORK, GILBERT	CARDIOACTIVE ALLOYOHIMBINES AND RELATED INDOLE ALKALOIDS	5R01 HL16471-03	83,666
SUSSER, MERVYN W.	AIR POLLUTION AND EMERGENCY ROOM VISITS	5R01 ES00899-02	106,287
SUSSER, MERVYN W.	EPIDEMIOLOGY OF SPONTANEOUS ABORTION & FETAL DEFECT	5R01 HD08838-02	126,422
TAPLEY, DONALD F.	THE EFFECT OF THYROXINE ON MITOCHONDRIA	5R01 AM01506-19	51,193
TAPLEY, DONALD F.	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00645-05	961,116
TAPLEY, DONALD F.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05395-15	261,305
TENNYSON, VIRGINIA M.	ALTERATIONS IN CATECHOLAMINERGIC NEUROBLASTS	5R01 NS11870-02	59,393
TOMENDORF, JUERGEN	MECHANICAL PROPERTIES OF THE EAR	5R01 NS03654-15	77,012
TORAN-ALLERAND, C D.	SEX HORMONES AND DEVELOPMENT OF THE GONADOTROPHIC AXIS	3R01 HD08364-02S1	4,051
TORAN-ALLERAND, C D.	SEX HORMONES AND DEVELOPMENT OF THE GONADOTROPHIC AXIS	5R01 HD08364-03	44,185
TURINO, GERARD M.	CHEMICAL PREDISPOSITIONS TO LUNG INJURY	5P01 HL15832-04	365,326
VANDE WIELE, RAYMOND L.	INTERNATIONAL INSTITUTE FOR STUDY OF HUMAN REPRODUCTION	5P30 HD06132-03	188,273
VEENEMA, RALPH J.	EVALUATION OF MANAGEMENT OF PATIE	5R26 CA16899-03	54,307
VOGEL, HENRY J.	STUDIES ON ENZYME REPRESSION IN BACTERIA	2R01 AI09297-08A1	73,168
WANG, SHIH-C.	MECHANISM OF ACUPUNCTURE-INDUCED ANALGESIA IN MONKEY	5R01 GM22222-02	37,098
WANG, SHIH-C.	PHYSIOLOGY AND PHARMACOLOGY OF BRAIN STEM	5R01 NS00031-27	50,696
WECHSLER, JAMES A.	CONTROL OF NORMAL AND ABNORMAL CHROMOSOME GROWTH	5R01 CA12590-06	60,177
WEINSTEIN, I BERNARD	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA18180-02	124,187
WINICK, MYRON	NUTRITION AND CELL GROWTH DURING BRAIN DEVELOPMENT	5R22 HD06682-05	83,558
WINTERS, ROBERT W.	STUDIES OF PARENTERAL NUTRITION IN NEWBORN ANIMALS	5R01 HD08432-03	230,708
WINTERS, ROBERT W.	METABOLIC STUDIES OF PARENTERAL NUTRITION IN INFANTS	5R01 HD08434-03	231,338
WOLFF, JAMES A.	COOPERATIVE STUDY OF CHILDREN'S CANCER	5R10 CA03526-19	59,152
ZARE, RICHARD N.	LASER FLUORESCENCE DETECTION OF AFLATOXINS	1R01 CA18271-01	47,781
ZUBAY, GEOFFREY L.	MALIGNANT TRANSFORMATION AND THE CYCLIC NUCLEOTIDES	5R01 CA16440-02	46,411
ZUBAY, GEOFFREY L.	MALIGNANT TRANSFORMATION AND THE CYCLIC NUCLEOTIDES	5R01 CA16440-03	50,222
ZUBAY, GEOFFREY L.	CELL-FREE SYSTEMS FOR THE STUDY OF GENE REGULATION	5R01 GM16648-08	36,335
ORGANIZATION TOTAL	241	30,207,908	
<b>COMMUNITY BLOOD COUNCIL OF GREATER NEW YORK ZIP CODE 10021</b>			
GERMAN, JAMES L, III	AGING OF BLOOM'S SYNDROME CELLS IN TISSUE CULTURE	5R01 AG00051-02	23,375
GERMAN, JAMES L, III	CYTOLOGICAL STUDIES IN HUMAN GENETICS	5R01 HD04134-08	96,535
GERMAN, JAMES L, III	CYTOLOGICAL STUDIES IN HUMAN GENETICS	5R01 HD04134-09	100,151
KELLNER, AARON	RESEARCH AND RESOURCE BLOOD PROGRAM	3P01 HL09011-12S3	8,666
KELLNER, AARON	RESEARCH AND RESOURCE BLOOD PROGRAM	2P01 HL09011-13	1,919,458
KELLNER, AARON	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05688-08	81,942
POGO, ANGEL O.	CONTROL OF RNA SYNTHESIS IN NORMAL AND NEOPLASTIC CELLS	5R01 CA17626-02	28,315
REDMAN, COLVIN M.	BIOSYNTHESIS OF LIVER PROTEINS BY RIBOSOMES	3R01 AM13620-06S1	28,363
REDMAN, COLVIN M.	EFFECT OF ANTIMICROTUBULAR AGENTS ON SECRETION	5R01 AM17741-02	64,840
WOLF, CARL F.	AN EXTRACORPOREAL DEVICE TO FUNCTION AS A LIVER	5R01 AM15771-05	48,711
ORGANIZATION TOTAL	10	2,400,356	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>CORNELL UNIVERSITY MEDICAL CENTER ZIP CODE 10021</b>			
ABEL, RONALD M.	MALNUTRITION AND CARDIAC STRUCTURE AND FUNCTION	1R01 HL18854-01	59,625
ANDERSEN, OLAF S.	CHANNEL-MEDIATED ION TRANSPORT ACROSS LIPID BILAYERS	5R01 GM21342-03	35,347
ARTZT, KAREN	TERATOCARCINOMA AND EMBRYONAL TUMORS: SURFACE ANTIGENS	5R01 CA16715-02	40,201
ARTZT, KAREN	TERATOCARCINOMA AND EMBRYONAL TUMORS: SURFACE ANTIGENS	7R01 CA21651-01	31,439
AULD, PETER A.	FUNCTIONAL ASPECTS OF PULMONARY IMMATURITY	2R01 HD02644-09A1	47,015
BACHVAROVA, ROSEMARY F.	SYNTHESIS, CHARACTERIZATION, AND FATE OF MOUSE OVUM RNA	3R01 HD06910-03S1	10,274
BACHVAROVA, ROSEMARY F.	ANALYSIS OF MOUSE EGG RNA AND ITS ROLE IN THE EMBRYO	2R01 HD06910-04	75,627
BEARN, ALEXANDER G.	BIOCHEMISTRY AND GENETICS OF BLOOD CELL MEMBRANE PROTEIN	5R01 AM11796-09	147,525
BEARN, ALEXANDER G.	BIOCHEMISTRY AND GENETICS OF BLOOD CELL MEMBRANE PROTEIN	5R01 AM11796-10	153,944
BECKER, CARL G.	ARTERIOSCLEROSIS, GLOMERULONEPHRITIS, RHEUMATIC FEVER	2R01 HL02803-21A1	107,013
BEDFORD, J MICHAEL	MATURATION AND INTERACTION OF MAMMALIAN GAMETES	5R01 HD07257-05	85,650
BLACK, IRA B.	REGULATION OF NEURONAL GROWTH AND DEVELOPMENT	5R01 NS10259-05	38,597
BRESLOW, ESTHER M.	INTERACTIONS OF PROTEINS	5R01 GM17528-20	82,196
BRISCOE, WILLIAM A.	EMPHYSEMA: RESPIRATORY FUNCTION IN DISEASE	3R01 HL12530-07S1	7,732
BRISCOE, WILLIAM A.	EMPHYSEMA: RESPIRATORY FUNCTION IN DISEASE	5R01 HL12530-08	80,045
BUCHANAN, J ROBERT	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00047-16	1,344,496
CHAN, WALTER Y.	UTERINE PHARMACOLOGY OF OXYTOCIN AND PROSTAGLANDINS	5R01 HD09031-02	42,770
COOPER, GEORGE W, JR	THE SURFACE CHARACTER OF SPERMATOZOA AND BLASTOCYSTS	5R01 HD09215-02	62,069
CORNELL, GEORGE N.	COOPERATIVE STUDY OF ONCOLOGY	3R10 CA12276-04S1	47,992
COTZIAS, GEORGE C.	STUDIES OF EXTRAPYRAMIDAL & RELATED BEHAVIORAL DISORDERS	3P01 NS12776-01S1	113,107
DANES, BETTY S.	GENETIC STUDIES OF HERITABLE COLORECTAL CANCER	5R26 CA15973-03	53,809
DARLINGTON, GRETCHEN J.	ACTIVATION OF HEPATIC GENES IN CELL HYBRIDS	1R01 GM12237-01	111,971
DICKERMAN, ROBERT W.	STUDY OF ENCEPHALITIS ARBOVIRUSES IN NORTH AMERICA	5R01 AI06248-12	26,977
DICKERMAN, ROBERT W.	STUDY OF ENCEPHALITIS ARBOVIRUSES IN NORTH AMERICA	5R01 AI06248-13	26,719
DIETZ, GEORGE W.	ACTIVE TRANSPORT MECHANISMS IN NORMAL AND TUMOR CELLS	5R01 GM19198-03	23,247
DUFFY, THOMAS E.	PATHOGENESIS OF HEPATIC COMA	5R01 AM16739-04	80,693
ENGLE, MARY A.	IMMUNOLOGIC STUDIES IN POSTPERICARDIOTOMY SYNDROME	5R01 HL16246-03	66,164
ENGLE, MARY A.	IMMUNOLOGIC STUDIES IN POSTPERICARDIOTOMY SYNDROME	2R01 HL16246-04	93,808
GARDNER, DANIEL	SYNAPTIC ORGANIZATION OF AN IDENTIFIED NEURAL NETWORK	5R01 NS11555-03	12,829
GAY, WILLIAM A, JR.	TISSUE PROTECTION DURING CIRCULATORY INTERRUPTION	1R01 HL19030-01	104,585
GIBBS, JAMES G, JR.	PHYSIOLOGICAL MECHANISMS OF SATIETY	5R01 AM17240-03	38,318
GRAFSTEIN, BERNICE	GROWTH OF AXONS IN DEVELOPMENT AND REGENERATION	5R01 NS09015-07	97,222
GRAFSTEIN, BERNICE	GROWTH OF AXONS IN DEVELOPMENT AND REGENERATION	5R01 NS09015-08	140,765
HARPEL, PETER C.	COAGULATION INHIBITORS: FUNCTION AND STRUCTURE	5R01 HL16672-02	61,900
HARSANYI, ZSOLT P.	DRUG AND CHEMICALLY INDUCED CHROMOSOMAL ABERRATIONS	5R01 ES00675-03	38,116
HASCHMEYER, RUDY H.	BIOPHYSICAL STUDIES ON MACROMOLECULAR INTERACTIONS	2R01 HL11822-08	27,305
HEINEMANN, HENRY O.	INTERACTION BETWEEN ELECTROLYTES AND RESPIRATION	5R01 HL13921-05	64,480
HEINEMANN, HENRY O.	THE LUNG AS A METABOLIC ORGAN	2R01 HL13921-06	89,850
HINKLE, LAWRENCE E, JR.	ANTECEDENTS OF CLINICAL CORONARY HEART DISEASE	5R01 HL07796-13	61,787
HINKLE, LAWRENCE E, JR.	PREVENTION OF ACUTE AND FATAL CARDIOVASCULAR DISEASE	5R01 HL18776-02	157,845
JAVITT, NORMAN B.	CHOLESTATIC LIVER DISEASE	5R01 AM16201-05	135,002
JONES, THOMAS C.	INTERACTIONS OF MYCOPLASMAS AND PHAGOCYTTIC CELLS	5R01 AI10821-03	28,936
JONES, THOMAS C.	EFFECTS OF IMMUNITY ON INTRACELLULAR PARASITISM	5R01 AI12146-03	24,430
KRAUSS, ALFRED N.	RESPIRATORY CHEMOSENSITIVITY DURING SLEEP IN INFANCY	5R01 HD07965-02	60,413
KRAUSS, ALFRED N.	CONTROL OF BREATHING IN PREMATURE INFANTS	5R01 HD09067-02	22,129
LANDESMAN, ROBERT	RADIORECEPTORASSAY OF HCG IN EARLY PREGNANCY	5R01 HD09004-02	62,665
LARAGH, JOHN H.	HYPERTENSION CENTER	2P50 HL18323-02	807,703
LEVI, ROBERTO	CARDIAC DYSFUNCTIONS CAUSED BY HISTAMINE RELEASE	5R01 GM20091-02	57,697
LITWIN, STEPHEN D.	GENETIC CONTROL OF ALLOTYPE EXPRESSION OF HUMAN IGG	3R01 AI09239-07S1	1,864
LITWIN, STEPHEN D.	GENETIC CONTROL OF ALLOTYPE EXPRESSION OF HUMAN IGG	5R01 AI09239-08	71,711
MAACK, THOMAS M.	RENAL HANDLING OF PROTEINS: CONTROL OF RENIN RELEASE	5R01 AM14241-06	46,950
MARCUS, AARON J.	BIOCHEMISTRY OF PLATELET GRANULES AND MEMBRANES	5R01 HL09070-12	21,345
MEISTER, ALTON	AMINO ACID AND PROTEIN METABOLISM	5R01 AM12034-09	183,533
MEISTER, ALTON	AMINO ACID AND PROTEIN METABOLISM	5R01 AM12034-10	192,841
MILLER, DENIS R.	COOPERATIVE STUDY OF CHILDREN'S CANCER	2R10 CA14557-03	46,180
MILLER, DENIS R.	DESFERRIOXAMINE THERAPY IN THALASSEMIA	1R01 HL19898-01	102,939
MINICK, CHARLES R.	REGRESSION OF CHRONIC ATHEROSCLEROSIS	1R01 HL19109-01	65,339
NACHMAN, RALPH L.	SPECIALIZED CENTER OF RESEARCH IN THROMBOSIS	1P50 HL18828-01	971,787

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
NATHAN, MARC A.....	A MODEL OF SUSTAINED ARTERIAL HYPERTENSION.....	5R01 HL18195-02	66,598
NEW, MARIA I.....	ANDROGEN METABOLISM IN CHILDHOOD.....	5R01 HD00072-13	85,854
NEW, MARIA I.....	ADRENOCORTICAL FACTORS IN HUMAN HYPERTENSION.....	5R01 HL17749-02	76,350
NORUM, ROBERT A.....	HUMAN ALPHA-1-ANTITRYPSIN SYNTHESIS IN VITRO.....	1R01 HL18876-01	47,857
PETERSON, RALPH E.....	MALE PSEUDOHERMAPHRODITISM.....	5R01 HD09421-02	66,292
PLUM, FRED.....	RESEARCH CENTER IN CEREBROVASCULAR DISEASE.....	5P50 NS03346-15	526,514
PLUM, FRED.....	RESEARCH CENTER IN CEREBROVASCULAR DISEASE.....	2P50 NS03346-16	635,721
PLUM, FRED.....	CEREBRAL METABOLISM IN FOCAL SEIZURES.....	5R01 NS04928-12	71,499
POLEY, MARGARET J.....	IMMUNOBIOLOGIC STUDIES OF HUMAN COMPLEMENT.....	5R01 AI10873-05	48,050
POTTS, DOUGLAS G.....	RADIOLOGICAL STUDIES OF CEREBROSPINAL FLUID.....	5R01 NS09198-06	122,558
REIDENBERG, MARCUS M.....	DRUG TRANSFERANCE AND SENSITIVITY IN ABNORMAL STATES.....	5R01 GM22193-02	38,116
REIS, DONALD J.....	NEURAL MODULATION OF CAROTID SINUS REFLEX PERFORMANCE.....	2R01 HL16834-03	48,931
REIS, DONALD J.....	EXPERIMENTAL NEUROGENIC HYPERTENSION PROGRAM.....	1P01 HL18974-01	734,428
REIS, DONALD J.....	BRAIN CATECHOLAMINES IN DEFENSE REACTION.....	5R01 NS06911-09	77,957
REIS, DONALD J.....	BRAIN CATECHOLAMINES IN DEFENSE REACTION.....	5R01 NS06911-10	83,496
RIKER, WALTER F, JR.....	GLUCOCORTICOIDS ON NORMAL & COMPROMISED MOTOR NEURONS.....	2R01 NS01447-19	64,594
RIKER, WALTER F, JR.....	GLUCOCORTICOIDS ON NORMAL & COMPROMISED MOTOR NEURONS.....	5R01 NS01447-20	65,999
ROBERTS, RICHARD B.....	IMMUNITY TO NEISSERIA GONORRHOEA.....	3R01 AI10669-04S1	1,740
ROBERTS, RICHARD B.....	PROGRAM-PROJECT GRANT IN VENEREAL DISEASES.....	1P01 AI12932-01	225,245
ROSS, GORDON D.....	LYMPHOCYTE RECEPTORS IN IMMUNITY, ARTHRITIS AND CANCER.....	5R01 CA16190-02	78,613
RUBIN, ALBERT L.....	MODIFIED COLLAGEN FOR OPHTHALMIC DRUG DELIVERY.....	5R01 EY01502-02	53,995
SAUDEK, CHRISTOPHER D.....	CHOLESTEROL METABOLISM IN DIABETIC MAN.....	5R01 HL20488-01	89,694
SAXENA, BRU B.....	ANDROGEN METABOLISM.....	5R01 HD04173-12	65,249
SAXENA, BRU B.....	PITUITARY GONADOTROPIC AND GROWTH HORMONES.....	5R01 HD06543-05	117,956
SCHNECKLOTH, ROLAND E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05396-15	261,305
SHIRES, GEORGE T.....	EVALUATION OF SALINE SOLUTIONS IN THERAPY OF SHOCK.....	1R01 GM23000-01	117,129
SILAGI, SELMA.....	GENE ACTION AND CELLULAR DIFFERENTIATION IN CULTURE.....	5R01 CA10095-09	164,005
SILVER, RICHARD T.....	LEUKEMIA, LYMPHOMA, AND MYELOMA CHEMOTHERAPY.....	5R10 CA07968-12	107,135
SIRLIN, JULIO L.....	MOLECULAR CORRELATES OF BEHAVIOR.....	5R01 NS10270-02	52,267
SISKIND, GREGORY W.....	STUDIES ON ANTIBODY AFFINITY AT THE CELLULAR LEVEL.....	3R01 AI11694-01A1S1	6,552
SISKIND, GREGORY W.....	STUDIES ON ANTIBODY AFFINITY AT THE CELLULAR LEVEL.....	5R01 AI11694-02	88,366
SISKIND, GREGORY W.....	ANTIBODY AFFINITY IN IMMUNE RESPONSE & TOLERANCE.....	9R01 CA20075-08	76,327
SMITH, GERARD P.....	NEUROENDOCRINOLOGY OF EMOTIONAL BEHAVIOR.....	5R01 NS08402-07	60,191
SUSSDORF, DIETER H.....	CARCINOGENESIS IN THE NUDE (ATHYMIC) MOUSE.....	5R01 CA17219-02	49,925
TATE, SURESH S.....	BIOSYNTHESIS OF HYPOTHALAMIC HORMONES: TERMINAL GROUPS.....	1R01 AM19074-01	49,854
TAYLOR, ANN G.....	MICROTUBULES AND MICROFILAMENTS IN VASOPRESSIN ACTION.....	1R01 AM19022-01	76,972
WASTERLAIN, CLAUDE G.....	BRAIN RIBOSOMES AND BRAIN PROTEIN SYNTHESIS IN EPILEPSY.....	5R01 NS09625-05	15,770
WEKSLER, MARC E.....	AGING AND IMMUNE REACTIVITY.....	1R01 AG00239-01	86,001
WEKSLER, MARC E.....	AGING AND IMMUNE REACTIVITY.....	5R01 AG00239-02	69,008
WEKSLER, MARC E.....	HOST DEFENSES AGAINST LYMPHOBLASTIC LEUKEMIA.....	2R01 CA13339-04	44,019
WINDHAGER, ERICH E.....	ION AND WATER TRANSPORT ACROSS RENAL TUBULES.....	5R01 AM11489-10	89,177
WOODRUFF, JACK F.....	IMMUNOBIOLOGY OF VIRUS-LYMPHOCYTE INTERACTIONS.....	5R01 AI10172-03	64,152
WOODRUFF, JACK F.....	IMMUNOLOGIC MECHANISMS IN HEART DISEASE.....	5R01 HL17404-02	55,632
WOODRUFF, JACK F.....	IMMUNOLOGIC MECHANISMS IN HEART DISEASE.....	5R01 HL17404-03	63,161
YOUNG, RONALD J.....	MALE GAMETES AND REPRODUCTIVE FAILURES.....	1R01 HD10230-01	83,126
ORGANIZATION TOTAL	103	12,067,898	
<b>EYE BANK FOR SIGHT RESTORATION ZIP CODE 10021</b>			
BHUYAN, KAILASH C.....	MECHANISM OF CATARACTOGENESIS CAUSED BY AMINOTRIAZOLE.....	5R01 EY01731-02	56,202
ORGANIZATION TOTAL	1	56,202	
<b>FORDHAM UNIVERSITY ZIP CODE 10458</b>			
EPLING, GARY A.....	MECHANISTIC STUDY OF PHOTOTOXICITY IN ANTIMALARIALS.....	5R01 AI12200-03	37,751
FRANCK, RICHARD W.....	MITOMYCINS AND OTHER QUINOID ANTITUMOR AGENTS.....	5R01 CA11421-11	50,280
FRANCK, RICHARD W.....	BIOMEDICAL SCIENCES SUPPORT GRANT.....	5S07 RR07150-02	19,544
WEINREB, STEVEN M.....	CHEMICAL STUDIES ON POTENTIAL ANTITUMOR AGENTS.....	5R01 CA12568-06	47,452
WEINREB, STEVEN M.....	SYNTHESIS OF THE CYTOCHALASINS.....	5R01 HL18450-01	53,155
WEINREB, STEVEN M.....	SYNTHESIS OF THE CYTOCHALASINS.....	5R01 HL18450-02	54,211
ORGANIZATION TOTAL	6	262,393	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>HEALTH INSURANCE PLAN OF GREATER NEW YORK      ZIP CODE 10022</b>			
RUBERMAN, WILLIAM .....	VENTRICULAR PREMATURE BEATS AND SUDDEN CORONARY DEATH.....	5R01 HL13974-05	262,613
ORGANIZATION TOTAL	1      262,613		
<b>HOSPITAL FOR JOINT DISEASES AND MEDICAL CENTER      ZIP CODE 10035</b>			
HOLLANDER, VINCENT P .....	STUDIES ON HORMONALLY SENSITIVE TUMORS.....	5R01 CA10064-14	113,088
HOLLANDER, VINCENT P .....	THE PATHOGENESIS OF PLASMA CELL TUMORS.....	5R01 CA12635-05	90,251
HOLLANDER, VINCENT P .....	CORE GRANT FOR CANCER STUDIES.....	5P01 CA14194-03	270,010
HOLLANDER, VINCENT P .....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05589-12	52,701
MASHBURN, THOMPSON A, JR .....	PROTEOGLYCANS OF NORMAL AND MALIGNANT CARTILAGE.....	5R01 CA15626-03	40,601
MONDER, CARL .....	NEW PATHWAYS OF CORTICOSTEROID METABOLISM.....	5R01 AM09006-11	77,925
MONDER, CARL .....	FETAL DEVELOPMENT AND TYROSINE METABOLISM.....	1R01 HD09715-01	26,542
STEVENS, JOHN J .....	MECHANISM OF CORTISOL-INDUCED LYMPHOMA REGRESSION.....	5R01 CA14987-03	46,694
ORGANIZATION TOTAL	8      717,812		
<b>HOSPITAL FOR SPECIAL SURGERY      ZIP CODE 10021</b>			
BOSKEY, ADELE L .....	MECHANISM OF HARD TISSUE MINERALIZATION.....	5R23 DE04141-02	11,536
BURSTEIN, ALBERT H .....	MECHANICAL FACTORS AFFECTING FLUID TRANSPORT IN JOINTS.....	7R01 AM19849-01	82,940
BURSTEIN, ALBERT H .....	DEVELOPMENT OF SKELETAL STRENGTH IN CHILDREN.....	7R01 HD10926-01	55,802
CHRISTIAN, CHARLES L .....	IMMUNOLOGICAL STUDIES OF CHRONIC ARTHRITIS.....	5R01 AM14627-07	168,758
INSALL, JOHN N .....	LAXITY IN NORMAL, ARTHRITIC AND PROSTHETIC KNEE JOINTS.....	5R01 AM17408-03	72,132
KAGEN, LAWRENCE J .....	IMMUNOLOGICAL STUDIES OF MUSCLE AND MYOGLOBIN.....	2R01 AM14650-06	97,403
MELLORS, ROBERT C .....	C-TYPE RNA VIRUS AND IMMUNOPATHOLOGY.....	5R01 CA14928-12	159,438
MELLORS, ROBERT C .....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05495-14	54,196
PHILLIPS, PAUL E .....	VIROLOGIC STUDIES OF SYSTEMIC LUPUS ERYTHEMATOSUS.....	5R01 AM17028-03	32,450
POSNER, AARON S .....	ULTRASTRUCTURE OF BONE MINERAL.....	1R01 AM18412-01	119,035
ORGANIZATION TOTAL	10      853,690		
<b>INTERNATIONAL SYMPOSIUM FOR DETECTION AND PREVENTION OF CANCER      ZIP CODE 10029</b>			
NIEBURGS, HERBERT E .....	INTERNATIONAL CANCER DETECTION & PREVENTION SYMPOSIUM.....	1R13 CA19160-01	102,000
ORGANIZATION TOTAL	1      102,000		
<b>JEWISH HOSPITAL AND MEDICAL CENTER OF BROOKLYN      ZIP CODE 11238</b>			
LEE, STANLEY L .....	COOPERATIVE STUDY OF ACUTE LEUKEMIA.....	5R10 CA12886-05	111,293
WEISENFELD, SHIRLEY .....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	2R01 AM05648-16	27,661
WEISENFELD, SHIRLEY .....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM05648-17	15,060
ORGANIZATION TOTAL	3      154,014		
<b>LENOX HILL HOSPITAL      ZIP CODE 10021</b>			
IOACHIM, HARRY L .....	STUDIES OF INDUCTION AND IMMUNITY.....	5R01 CA16997-03	38,070
ORGANIZATION TOTAL	1      38,070		
<b>LONG ISLAND JEWISH-HILLSIDE MEDICAL CENTER      ZIP CODE 11040</b>			
BENJAMIN, FRED .....	ENDOCRINE METABOLIC INFLUENCE IN ENDOMETRIAL CARCINOMA.....	3R01 CA13223-03S1	11,757
GREENWALD, ROBERT A .....	INTERACTIONS OF CONNECTIVE TISSUE COMPONENTS.....	5R23 DE04234-02	11,936
KLAVINS, JANIS V .....	EMBRYONIC COMPONENTS IN CANCER AND PATHOLOGIC TISSUES.....	5R01 CA14872-03	49,268
KLAVINS, JANIS V .....	DIAGNOSTIC TEST FOR PANCREATIC CARCINOMA.....	1R26 CA20128-01	22,579
MEILMAN, EDWARD .....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05496-14	65,130
SAWITSKY, ARTHUR .....	CHEMOTHERAPY OF LEUKEMIA AND NEOPLASTIC DISEASES.....	5R10 CA11028-09	79,913
SAWITSKY, ARTHUR .....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	5P20 CA17061-02	68,836
STEINBERG, HARRY .....	5-HYDROXYTRYPTAMINE UPTAKE BY LUNG AND PLATELET.....	1R23 HL18355-01A1	32,555
ORGANIZATION TOTAL	8      341,974		
<b>LONG ISLAND UNIVERSITY BROOKLYN CENTER      ZIP CODE 11201</b>			
ROGERS, DONALD W .....	HEATS OF HYDROGENATION OF LARGE MOLECULES.....	5R01 GM18035-05	17,724
ORGANIZATION TOTAL	1      17,724		
<b>MAIMONIDES MEDICAL CENTER      ZIP CODE 11219</b>			
KAGAN, AVIR .....	SECRETION OF VASOPRESSIN.....	5R01 AM16175-04	23,314



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
KUMARESAN, PERIANNA.....	PHYSIOLOGY OF OXYTOCIN SECRETION.....	5R01 HD04984-04	33,702
SCHWARTZ, JOEL M.....	HETEROGENEITY OF NADH METHEMOGLOBIN REDUCTASE.....	5R01 HL13585-04	43,416
ORGANIZATION TOTAL	3 100,432		
<b>MANHATTAN COLLEGE ZIP CODE 10471</b>			
EVANS, LANCE S.....	G2 FACTOR: MOLECULAR STRUCTURE AND CELLULAR RESPONSE.....	1R01 GM23232-01	29,874
ORGANIZATION TOTAL	1 29,874		
<b>MASONIC FOUNDATION FOR MEDICAL RESEARCH AND HUMAN WELFARE ZIP CODE 10010</b>			
BAIRD, MALCOLM B.....	METABOLISM OF CARCINOGENS IN SENESCENT TISSUES.....	1R01 CA18486-01	50,097
ORGANIZATION TOTAL	1 50,097		
<b>MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES ZIP CODE 10021</b>			
BEATTIE, EDWARD J, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05753-04	88,214
BURCHENAL, JOSEPH H.....	CLINICAL CANCER RESEARCH CENTER.....	3P01 CA05826-14S1	1,041,255
BURCHENAL, JOSEPH H.....	CLINICAL CANCER RESEARCH CENTER.....	2P01 CA05826-15	2,477,340
BURCHENAL, JOSEPH H.....	IMMUNOLOGY CLINICAL CANCER RESEARCH CENTER PROGRAM.....	1P01 CA19267-01A1	1,225,687
KIRCH, ROBERTA L.....	DIGITAL COMPUTERIZED MAMMOGRAPHIC ENHANCEMENT.....	1R18 CA18309-01A1	70,055
LUKAS, DANIEL S.....	METABOLISM OF DIGITALIS STEROIDS IN MAN.....	5R01 HL14539-06	40,702
MELAMED, MYRON R.....	AUTOMATION OF URINARY CYTOLOGY FOR CANCER DETECTION.....	3R26 CA14134-04S1	19,088
ROBBINS, GUY F.....	CANCER CONTROL DEVELOPMENTAL GRANT.....	2R18 CA16402-02	309,864
SCHOTTENFELD, DAVID.....	CANCER RISK AFTER IRRADIATION AND/OR CHEMOTHERAPY.....	5R01 CA17028-02	43,015
WHITMORE, WILLET F, JR.....	CHEMOTHERAPY OF ADVANCED UROTHELIAL CANCER.....	1R26 CA20280-01	88,852
WINAWER, SIDNEY J.....	DETECTION OF EARLY COLON CANCER.....	5R26 CA15429-03	259,076
ORGANIZATION TOTAL	11 5,663,148		
<b>MONTFIORE HOSPITAL AND MEDICAL CENTER ZIP CODE 10467</b>			
ACKERMAN, SIGURD H.....	PSYCHOBIOLOGIC MECHANISMS OF STRESS ULCER IN THE RAT.....	1R01 AM18804-01	55,426
BANK, NORMAN.....	FACTORS GOVERNING THE RENAL EXCRETION OF ACID.....	3R01 HL14720-04S1	48,864
BANK, NORMAN.....	FACTORS GOVERNING THE RENAL EXCRETION OF ACID.....	2R01 HL14720-05	46,653
BANK, NORMAN.....	FACTORS GOVERNING THE RENAL EXCRETION OF ACID.....	5R01 HL14720-06	99,782
BANK, NORMAN.....	RENAL STARLING FORCES IN EXPERIMENTAL CONDITIONS.....	1R01 HL19366-01	73,250
BELLHORN, ROY W.....	VASCULAR ROLE IN EXPERIMENTAL RETINOPATHIES.....	5R01 EY01103-02	41,499
CHERKASKY, MARTIN.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	2M01 RR00053-15	916,116
CHERKASKY, MARTIN.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05499-14	186,247
COHEN, MICHAEL V.....	EFFECTS OF EXERCISE ON THE CORONARY VASCULATURE.....	5R01 HL17809-02	114,827
EMESON, EUGENE E.....	ADOPTIVE IMMUNOTHERAPY OF CANCER BY ALLOGENEIC MARROW.....	5R01 CA17467-02	54,712
ESCHER, DORIS J.....	TECHNOLOGY AND PHYSIOLOGY OF ARTIFICIALLY PACED HEARTS.....	5R01 HL04666-17	61,907
FISHMAN, JACK.....	SPECIALIZED CANCER CENTER FOR CANCER ENDOCRINOLOGY.....	5P01 CA07304-13	1,252,935
HAMERMAN, DAVID J.....	SYNOVIAL CELLS AND THE ETIOLOGY OF RHEUMATOID ARTHRITIS.....	5R01 AM15796-03	99,835
HAMERMAN, DAVID J.....	SYNOVIAL CELLS AND THE ETIOLOGY OF RHEUMATOID ARTHRITIS.....	5R01 AM15796-04	104,966
HENKIND, PAUL.....	RETINAL PATHOLOGY AND CIRCULATION.....	3R01 EY00613-05S1	22,643
HENKIND, PAUL.....	RETINAL PATHOLOGY AND CIRCULATION.....	2R01 EY00613-06	118,770
HENKIND, PAUL.....	ENDOCRINE AND PHYSIOLOGICAL PARAMETERS IN GLAUCOMA.....	5R01 EY01224-03	161,533
HIRANO, ASAO.....	STRUCTURE OF CEREBELLUM.....	5R01 NS10427-04	35,304
HIRANO, ASAO.....	STRUCTURE OF CEREBELLUM.....	5R01 NS10427-05	36,428
HOLLAND, JIMMIE.....	PSYCHOLOGICAL ADJUSTMENT TO RADIOTHERAPY.....	1R18 CA18329-01	17,814
KOSS, LEOPOLD G.....	AUTOMATION OF BLADDER CANCER CYTOLOGY BY TICAS.....	2R26 CA15803-03	103,236
KOSS, LEOPOLD G.....	AUTOMATION OF BLADDER CANCER CYTOLOGY BY TICAS.....	5R26 CA15803-04	89,467
LALEZARI, PARVIZ.....	NEUTROPHIL-SPECIFIC ANTIGENS: BIOLOGY AND CHEMISTRY.....	5R01 CA15318-02	48,697
LALEZARI, PARVIZ.....	BIOLOGY OF RED CELL ANTIGEN-ANTIBODY REACTION.....	3R01 HL10036-09S1	73,810
LALEZARI, PARVIZ.....	BIOLOGY OF RED CELL ANTIGEN-ANTIBODY REACTION.....	2R01 HL10036-10A1	3,692
LALEZARI, PARVIZ.....	BIOLOGY OF RED CELL ANTIGEN-ANTIBODY REACTION.....	5R01 HL10036-11	81,350
NEHLSEN, SANDRA L.....	IMMUNOREGULATION THROUGH MODIFICATION OF AMINO GROUPS.....	1R01 AI13138-01	49,843
OPPENHEIMER, JACK H.....	THYROXINE-PROTEIN INTERACTIONS.....	5R01 AM15421-16	106,060
PUSZKUN, ELENA G.....	THE ROLE OF CONTRACTILE PROTEINS IN PLATELETS.....	5R01 HL18030-02	52,537
ROSEN, JOHN F.....	THE DYNAMICS OF LEAD METABOLISM IN BONE.....	5R01 ES01060-02	94,673
ROSENFELD, ROBERT S.....	HORMONAL FACTORS IN ATHEROSCLEROSIS AND HYPERLIPIDEMIA.....	5P01 HL14734-05	401,669
SCHEUER, JAMES.....	EFFECTS OF PHYSICAL TRAINING ON HEART.....	5R01 HL15498-04	92,331
SCHEUER, JAMES.....	FUNCTION AND METABOLISM OF THE HEART IN UREMIA.....	5R01 HL15664-04	67,002

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
SCHUEER, JAMES.....	FUNCTION AND METABOLISM OF THE HEART IN UREMIA.....	5R01 HL15664-05	72,397
SPAET, THEODORE H.....	THE BLOOD VESSEL AND THROMBOGENESIS.....	5P01 HL16387-02	363,223
SURKS, MARTIN I.....	TRIIODOTHYRONINE RECEPTORS AND THYROTROPH NEOPLASIA.....	5R01 CA16463-02	63,764
VEITH, FRANK J.....	EXPERIMENTAL LUNG TRANSPLANTATION.....	5P01 HL17417-02	231,968
VEITH, FRANK J.....	EXPERIMENTAL LUNG TRANSPLANTATION.....	5P01 HL17417-03	278,304
WEINSTEIN, STEPHEN W.....	SOURCES OF ENERGY FOR RENAL SODIUM TRANSPORT.....	2R01 AM16775-04	74,982
YIPINTSOI, TADA.....	REGIONAL MYOCARDIAL BLOOD FLOW.....	5R01 HL15983-02	38,432
ORGANIZATION TOTAL	40 5,936,948		
<b>NATIONAL BUREAU OF ECONOMIC RESEARCH ZIP CODE 10016</b>			
WILLIS, ROBERT J.....	MICROECONOMIC ANALYSIS OF HUMAN FERTILITY BEHAVIOR.....	3R01 HD07161-03S1	12,400
WILLIS, ROBERT J.....	ECONOMIC ANALYSIS OF U.S. LIFE CYCLE FERTILITY.....	1R01 HD09666-01	88,758
ORGANIZATION TOTAL	2 101,158		
<b>NEW YORK ACADEMY OF MEDICINE ZIP CODE 10029</b>			
JARCHO, SAUL.....	EARLY HISTORY OF THE CONCEPT OF HEART FAILURE.....	5R01 LM02561-10	16,444
ORGANIZATION TOTAL	1 16,444		
<b>NEW YORK ACADEMY OF SCIENCES ZIP CODE 10021</b>			
LEONARD, EDWARD F.....	BEHAVIOR OF BLOOD AND ITS COMPONENTS AT INTERFACES.....	1R13 HL18872-01	16,363
PARSONS, DONALD F.....	SHORT WAVELENGTH MICROSCOPY.....	1R13 CA19815-01	9,945
TAKASHIMA, SHIRO.....	CONFERENCE ON BIOPOLYMERS AND MEMBRANES.....	1R13 GM23148-01	18,881
ORGANIZATION TOTAL	3 45,189		
<b>NEW YORK BOTANICAL GARDEN ZIP CODE 10458</b>			
ANCHEL, MARJORIE.....	MOLD METABOLITES: BIOLOGICAL AND CHEMICAL SIGNIFICANCE.....	5R01 AI00226-25	114,360
CAREY, SUSAN T.....	BIOLOGICALLY ACTIVE METABOLITES FROM PYRENOMYCETES.....	1R01 AI13247-01	79,443
NAIR, RAMACHANDRAN M.....	NEW MOLD PRODUCTS: CHEMISTRY AND BIOLOGICAL ACTIVITY.....	1R01 AI13074-01	70,334
ORGANIZATION TOTAL	3 264,137		
<b>NEW YORK CITY HEALTH SERVICES ADMINISTRATION—PUBLIC HEALTH RESEARCH INSTITUTE OF CITY OF N Y ZIP CODE 10016</b>			
COHEN, BERTRAM I.....	EFFECTS OF STEROLS AND BILE ACIDS ON COLON CANCER.....	1R26 CA18651-01	84,467
DALES, SAMUEL.....	MORPHOGENESIS & TRANSPORT OF NUCLEOPROTEINS & MEMBRANES.....	5R01 AI07477-10	102,257
DAY, LOREN A.....	PHYSICAL CHEMISTRY OF VIRUSES AND THEIR COMPONENTS.....	5R01 AI09049-08	74,778
DUBNAU, DAVID A.....	BACTERIAL TRANSFORMATION AND THE CELL MEMBRANE.....	5R01 AI10311-06	29,641
DUBNAU, DAVID A.....	INTEGRATION OF TRANSFORMING DNA.....	5R01 AI10972-03	31,139
GREGORIADES, ANASTASIA.....	REPLICATION AND ASSEMBLY OF INFLUENZA VIRUS.....	5R01 AI12567-02	47,608
HIRST, GEORGE K.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05533-14	124,224
LUSTY, CAROL J.....	STRUCTURE-FUNCTION RELATIONS OF UREA CYCLE ENZYMES.....	5R01 AM18044-02	57,926
MANDEL, BENJAMIN.....	STUDIES OF VIRUS-CELL AND VIRUS-ANTIBODY INTERACTION.....	5R01 AI10429-05	67,854
MARGOLIN, PAUL.....	MUTATION AND SUPPRESSOR STUDIES OF A BACTERIAL GENE.....	5R01 GM15255-11	98,743
MINDICH, LEONARD E.....	CELL MEMBRANE SYNTHESIS IN THE CONTROL OF GROWTH.....	5R01 AI09861-10	53,297
POGO, BEATRIZ G.....	PRODUCTION AND EXCRETION OF BILE ACIDS.....	5R01 AM05222-16	87,599
MOSBACH, ERWIN H.....	ROLE OF INTESTINAL BACTERIA IN STEROID METABOLISM.....	5R01 HL10894-10	82,263
NOVICK, RICHARD P.....	GENETIC AND MOLECULAR ANALYSIS OF PLASMID REPLICATION.....	5R01 GM14372-10	73,334
OISHI, MICHIO.....	THE MOLECULAR MECHANISM OF GENETIC RECOMBINATION.....	5R01 GM21073-03	65,675
OSLER, ABRAHAM G.....	FUNCTIONS OF THE ALTERNATE COMPLEMENT PATHWAY.....	5R01 AI08710-08	69,364
PENEFSKY, HARVEY S.....	MITOCHONDRIAL MEMBRANE AND OXIDATIVE PHOSPHORYLATION.....	5R01 GM21737-10	66,989
PONO, BEATRIZ G.....	DNASES DURING INFECTION BY VACCINIA AND SHOPE FIBROMA.....	5R01 AI12188-02	47,051
PONS, MARCEL W.....	BIOCHEMICAL STUDIES ON INFLUENZA VIRUS INFECTED CELLS.....	5R01 AI10256-05	67,272
PONS, MARCEL W.....	BIOCHEMICAL STUDIES ON INFLUENZA VIRUS INFECTED CELLS.....	5R01 AI10256-06	68,549
PULLMAN, MAYNARD E.....	BIOSYNTHETIC PROCESSES IN MITOCHONDRIA.....	5R01 AM08823-12	65,650
RATNER, SARAH.....	MECHANISMS OF NITROGEN TRANSFER AND UREA FORMATION.....	5R01 AM03428-17	77,721
ROCHOVANSKY, OLGA M.....	INFLUENZA VIRAL RNA AND PROTEIN SYNTHESIS IN VITRO.....	5R01 AI11614-03	48,641
RUBINSON, KALMAN.....	CONNECTIONS OF IDENTIFIABLE NEURONS DURING MATURATION.....	3R01 NS10906-01S1	6,609
SCHAEFLER, SAM.....	ECOLOGY OF EXTRACHROMOSOMAL ANTIBIOTIC RESISTANCE.....	5R01 AI10018-05	28,190
SMITH, ISSAR.....	GENETICS OF RIBOSOME SYNTHESIS: ANTIBIOTIC RESISTANCE.....	5R01 GM19185-05	50,897
SMITH, ISSAR.....	REGULATORY MECHANISMS IN RIBOSOME BIOSYNTHESIS.....	5R01 GM19693-03	34,462
TZAGOLOFF, ALEXANDER A.....	BIOSYNTHESIS OF CYTOCHROME OXIDASE.....	5R01 GM18868-05	31,789
TZAGOLOFF, ALEXANDER A.....	BIOSYNTHESIS OF CYTOCHROME OXIDASE.....	5R01 GM18868-06	34,196

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
TZAGOLOFF, ALEXANDER A.....	ASSEMBLY OF MEMBRANES IN HEART AND YEAST MITOCHONDRIA.....	5R01 HL13003-07	79,198
ORGANIZATION TOTAL	30 1,857,383		
<b>NEW YORK MEDICAL COLLEGE ZIP CODE 10029</b>			
BRAVERMAN, ALBERT S.....	BETA THALASSEMIA: EXCESS ALPHA CHAIN KINETICS.....	5R01 AM16846-02	45,178
BRAVERMAN, ALBERT S.....	BETA THALASSEMIA: EXCESS ALPHA CHAIN KINETICS.....	5R01 AM16846-03	14,674
CAGIN, NORMAN A.....	PROSTAGLANDINS AS ANTIARRHYTHMIC AGENTS.....	1R01 HL18985-01	40,794
DANISHEFSKY, ISIDORE.....	HEPARIN, BLOOD COAGULATION AND LIPID METABOLISM.....	5R01 HL16955-03	53,789
FISHER, CLARK A.....	THE CELL ENVELOPE ANTIGENS OF PROPIONIBACTERIUM ACNES.....	5R01 AI12704-02	12,854
GLASS, GEORGE B.....	MUCOPROTEINS, INTRINSIC FACTOR, AND VITAMIN B12.....	2R01 AM00668-24A1	84,163
GUTSTEIN, WILLIAM H.....	NEURAL FACTORS IN ATHEROGENESIS.....	1R01 HL18085-01A1	97,867
HOROWITZ, MARTIN I.....	BIOCHEMISTRY OF LIPIDS IN NORMAL AND ULCERATED STOMACHS.....	5R01 AM15565-05	90,037
LEHR, DAVID.....	THERAPY OF EXPERIMENTAL MYOCARDIAL NECROSIS.....	5R01 HL00890-23	73,609
LERNER, ROBERT G.....	THE ROLE OF LEUKOCYTES IN THROMBOTIC DISEASE.....	3R01 HL14739-04S1	4,415
LEVINE, NORMAN.....	MALE REPRODUCTION: EPIDIDYMAL MICROPUNCTURE STUDY.....	5R01 HD09010-02	48,311
LOUD, ALDEN V.....	HYPOTHERMIA AND THE HEART.....	5R01 HL14713-05	71,493
MADDEN, ROBERT E.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA12286-05S1	32,156
MADDEN, ROBERT E.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17944-02	79,797
MC BRIDE, RAYMOND A.....	ANTITUMOR IMMUNITY IN AGAMMAGLOBULINEMIC INBRED FOWL.....	5R01 CA16164-09	157,461
MOHOS, STEVEN C.....	MECHANISM OF INDUCED RENAL DISEASE.....	5R01 AM08432-11	100,067
MOROSON, HAROLD.....	EFFECT OF RADIOOTHERAPY UPON HOST IMMUNE REACTIONS.....	2R01 CA14374-04	114,194
PETERSON, RUDOLPH N.....	MOTILITY AND METABOLISM OF HUMAN SPERMATOZOA.....	5R01 HD09341-02	7,413
PIGMAN, W WARD.....	CORE PROTEINS OF SALIVARY GLYCOPROTEINS.....	5R01 DE04084-02	39,533
ROTHBALLER, ALAN B.....	CNS CONTROL OF FLUID AND ELECTROLYTE METABOLISM.....	5R01 NS06624-11	68,057
ROTHENBERG, SHELDON P.....	KINETICS OF B12, INTRINSIC FACTOR, AND OTHER PROTEINS.....	5R01 AM06045-13	66,805
ROTHENBERG, SHELDON P.....	SPECIFIC RADIOASSAYS FOR FOLATE ANALOGUES.....	5R01 AM16220-05	53,882
ROTHENBERG, SHELDON P.....	FOLATE REDUCTASE: INDUCTION, SUPPRESSION, THERAPEUTICS.....	5R01 CA08976-10	72,386
ROTMAN, MARVIN.....	RADIATION THERAPY ONCOLOGY GROUP.....	1R10 CA18358-01	65,166
RUBIN, SAMUEL H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05398-15	164,275
SALL, SANFORD.....	GYNECOLOGIC ONCOLOGY GROUP.....	2R10 CA12483-06	114,377
SCHIERMAN, LOUIS W.....	IMMUNOGENETIC STUDY OF A HERPES VIRUS-INDUCED LYMPHOMA.....	3R01 CA13940-03S1	28,714
SCHILLER, SARA.....	BIOCHEMISTRY OF ACID MUCOPOLYSACCHARIDES.....	5R01 AM14614-05	73,775
SHARMA, SANSAR C.....	GENESIS OF NEURAL SPECIFICITY IN THE VISUAL SYSTEM.....	5R01 EY01426-02	73,520
SOUTHREN, A LOUIS.....	STUDIES IN ANDROGEN METABOLISM.....	5R01 AM12845-05	112,907
SOUTHREN, A LOUIS.....	CORTISOL METABOLISM IN GLAUCOMA AND CATARACT.....	2R01 EY01313-02	83,369
SZABO, ANDREW J.....	INSULIN-SENSITIVE GLUCOREGULATOR IN THE C N S.....	2R01 AM17347-04	75,473
THEIS, GAIL A.....	RESPONSES OF LYMPHOCYTES TO AN ONCOGENIC HERPES VIRUS.....	1R01 CA18904-01	38,731
THURSH, DONALD R.....	IMMUNOLOGICAL ASPECTS OF FETAL AND INFANTILE DEATH.....	5R01 HD08847-03	37,906
VITTEK, JOZEF.....	SEX STEROID METABOLISM IN ORAL TISSUES.....	5R01 DE04039-02	48,427
WIENER, JOSEPH.....	MORPHOGENESIS OF HYPERTENSIVE VASCULAR DISEASE.....	5R01 HL13742-05	80,427
ORGANIZATION TOTAL	36 2,426,002		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE—INSTITUTE FOR BASIC RESEARCH IN MENTAL RETARDATION ZIP CODE 10314</b>			
THORMAR, HALLDOR.....	VISNA-MAEDI VIRUS CLONES: COMPARISON & DIFFERENTIATION.....	5R01 AI12465-02	30,844
ORGANIZATION TOTAL	1 30,844		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE—NEW YORK STATE PSYCHIATRIC INSTITUTE ZIP CODE 10032</b>			
BARKAI, AMIRAM I.....	SLEEP BEHAVIOR AND TURNOVER OF BIOGENIC AMINES.....	5R01 NS11048-03	34,305
GRAF, LISELOTTE.....	IMMUNOCHEMISTRY OF THE CELL MEMBRANE IN MALIGNANCY.....	5R01 CA10903-09	54,896
KUPFERMANN, IRVING.....	BEHAVIORAL AND NEURAL ANALYSIS OF LEARNING.....	5R01 NS12492-03	62,927
MALITZ, SIDNEY.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05650-10	111,484
THOMPSON, ELIZABETH B.....	MORPHOLOGY OF IDENTIFIED SYNAPSES.....	5R01 NS12353-02	26,371
ORGANIZATION TOTAL	5 289,983		
<b>NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE—RESEARCH INSTITUTE FOR NEUROCHEMISTRY &amp; DRUG ADDCTN ZIP CODE 10035</b>			
LAITHA, ABEL.....	PROTEIN AND PEPTIDE BREAKDOWN IN THE BRAIN.....	5R01 NS03226-16	55,881
LAITHA, ABEL.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05707-05	19,675
ORGANIZATION TOTAL	2 75,556		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>NEW YORK UNIVERSITY</b>	<b>ZIP CODE 10003</b>		
ADESNIK, MILTON B.	ERYTHROID DIFFERENTIATION IN FRIEND LEUKEMIC CELLS.....	5R01 CA16887-02	44,930
AL-ASKARI, SALAH	CHARACTERIZATION OF HOMOGRAFT REACTIONS.....	5R01 AM16522-12	56,329
ALBERT, ROY E.	FOLLOW-UP STUDY OF IRRADIATED TINEA CAPITIS CASES.....	5R01 CA17188-02	147,105
ALTSZULER, NORMAN	HORMONAL REGULATION OF METABOLISM.....	3R01 AM10188-10S1	52,644
ASKANAS, VALERIE	ULTRASTRUCTURE OF CULTURED DISEASED HUMAN MUSCLE.....	5R01 NS12187-02	30,772
AULL, FELICE B.	MEMBRANE PERMEABILITY OF THE ASCITES TUMOR CELL.....	5R01 CA10625-07	29,963
AULL, FELICE B.	MEMBRANE PERMEABILITY OF THE ASCITES TUMOR CELL.....	5R01 CA10625-08	28,691
AYVAZIAN, JOHN H.	PATHWAYS OF PURINE METABOLISM.....	5R01 AM14059-17	23,964
BACHVAROFF, RADOSLAV J.	LYMPHOCYTE DIFFERENTIATION AND IMMUNE RESPONSIVENESS.....	1R01 AI13213-01	70,852
BAER, RUDOLF L.	NONIMMUNOGENIC UNCONJUGATED SIMPLE CHEMICAL TOLEROGENS.....	5R01 AI11103-03	29,099
BAKER, ROBERT G.	EYE MOVEMENT: PHYSIOLOGICAL ORGANIZATION.....	1R01 EY02007-01	50,714
BALDWIN, DAVID S.	GENESIS OF HYPERTENSION IN RENAL DISEASES.....	5R01 HL15124-04	119,744
BARKSDALE, LANE	THE GENUS CORYNEBACTERIUM AND ITS VIRUSES.....	5R01 AO1071-20	93,790
BASCH, ROSS S.	STUDY OF THE DEVELOPMENT OF THYMIC LYMPHOCYTES.....	3R01 AI11326-03S1	10,154
BASCH, ROSS S.	THE TRANSITION FROM FETAL TO ADULT HEMOGLOBIN SYNTHESIS.....	5R01 HD04130-07	39,033
BASILICO, CLAUDIO	CELLULAR AND VIRAL CONTROL OF ONCOGENIC TRANSFORMATION.....	5R01 CA11893-07	72,250
BASILICO, CLAUDIO	BIOSYNTHESIS IN NORMAL AND VIRUS-TRANSFORMED CELLS.....	5P01 CA16239-02	146,879
BELMAN, SIDNEY	THE ROLE OF CYCLIC NUCLEOTIDES IN TUMOR PROMOTION.....	1R01 CA18536-01	66,287
BENNETT, IVAN L.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05399-15	261,305
BERNHMEIER, ALAN W.	STAPHYLOCOCCAL AND STREPTOCOCCAL PROTEINS.....	5R01 HD08187-01A1S1	108,078
BERNHMEIER, ALAN W.	STAPHYLOCOCCAL AND STREPTOCOCCAL PROTEINS.....	5R01 AI02874-18	117,300
BLACK, VIRGINIA H.	CYTODIFFERENTIATION OF STEROID-SECRETING CELLS.....	5R01 HD04005-08	46,422
BLIZARD, DAVID A.	HORMONES, DEVELOPMENT AND SEX DIFFERENCES.....	3R01 HD08187-01A1S1	4,756
BLIZARD, DAVID A.	HORMONES, DEVELOPMENT AND SEX DIFFERENCES.....	5R01 HD08187-02	40,733
BRAINE, MARTIN D.	TOWARDS A CONCEPTUAL BASIS FOR SYNTACTIC RELATIONS.....	5R01 HD08090-02	25,746
BREININ, GOODWIN M.	FINE STRUCTURE OF NORMAL AND PATHOLOGIC OCULAR MUSCLE.....	5R01 EY00309-11	146,610
BRIDGES, C DAVID	PHOTO AND BIOCHEMICAL REACTIONS IN THE VISUAL SYSTEM.....	5R01 EY00461-08	98,979
BRODY, SEYMOUR S.	USE OF MONOMOLECULAR FILMS TO STUDY VISUAL PROCESSES.....	5R01 EY00173-08	51,096
BUXBAUM, JOEL N.	IMMUNOGLOBULIN SYNTHESIS BY MALIGNANT PLASMA CELLS.....	5R01 CA12152-05	53,573
BYSTRYIN, JEAN-CLAUDE	ISOLATION OF TUMOR ANTIGENS OF HUMAN MELANOMA.....	2R01 CA13844-04	91,241
BYSTRYIN, JEAN-CLAUDE	ISOLATION OF TUMOR ANTIGENS OF HUMAN MELANOMA.....	5R01 CA13844-05	100,578
CAMPBELL, EDWIN S.	WATER AND ORIENTATIONAL ENERGY OF HYDROGEN BONDS.....	5R01 GM20436-02	29,158
CARR, RONALD E.	ERG AND PSYCHOPHYSICAL STUDIES IN RETINAL DISORDERS.....	5R01 EY00213-17	108,985
CELIS, T F.	TRANSPORT OF BASIC AMINO ACIDS IN E. COLI.....	5R01 AI12062-02	29,551
CELIS, T F.	TRANSPORT OF BASIC AMINO ACIDS IN E. COLI.....	5R01 AI12062-03	36,879
CHAMBERS, ROBERT W.	EXAMINING SPECIFIC CHEMICAL CHANGES IN VIRAL DNA.....	5R01 CA16319-02	96,215
CHAMBERS, ROBERT W.	RECOGNITION OF TRNA BY ITS AMINO ACID TRNA LIGASE.....	5R01 GM07262-17	111,464
CHIARANDINI, DANTE J.	PHYSIOLOGY AND PHARMACOLOGY OF EXTRAOCULAR MUSCLES.....	5R01 EY01297-03	54,156
CONVERSE, JOHN M.	CRANIOFACIAL ANOMALIES - ETIOLOGY AND TREATMENT.....	5P01 DE03568-02	295,686
CONVERSE, JOHN M.	INTERNATIONAL CONFERENCE ON CRANIOFACIAL ANOMALIES.....	1R13 DE04398-01	7,398
COX, RODY P.	INBORN ERRORS OF METABOLISM IN CELL CULTURE.....	3R01 AM14528-06S2	8,904
COX, RODY P.	INBORN ERRORS OF METABOLISM IN CELL CULTURE.....	5R01 AM14528-07	114,030
COX, RODY P.	CELL REGULATION AND FETAL PROTEINS IN NEOPLASIA.....	5R01 GM15508-09	73,530
COX, RODY P.	CELL REGULATION AND FETAL PROTEINS IN NEOPLASIA.....	5R01 GM15508-10	80,454
CRAYVOTO, HUMBERTO M.	IMMUNOLOGICAL STUDIES OF EXPERIMENTAL BRAIN TUMORS.....	5R01 CA12989-03	49,466
DANCIS, JOSEPH	PHYSIOLOGY OF THE PLACENTA.....	5R01 HD00462-21	57,238
DANCIS, JOSEPH	INBORN ERRORS OF METABOLISM.....	5R01 HD04526-07	47,342
DAVID, RAPHAEL	STUDY OF ROLE OF ADRENAL ANDROGENS IN LINEAR GROWTH.....	3R01 HD07929-02S1	13,394
DAVID, RAPHAEL	STUDY OF ROLE OF ADRENAL ANDROGENS IN LINEAR GROWTH.....	2R01 HD07929-03	47,795
DILLER, LEONARD	FURTHER STUDIES ON REMEDIATION OF BRAIN DAMAGE.....	2R01 NS10236-04	149,252
DILLER, LEONARD	FURTHER STUDIES ON REMEDIATION OF BRAIN DAMAGE.....	5R01 NS10236-05	156,818
DUMONT, ALLAN E.	HODGKIN'S DISEASE: ANTEGRADE SPREAD VIA THORACIC DUCT.....	3R01 CA13622-03S1	2,824
ELSACH, PETER	METABOLISM OF MEMBRANES AND PHAGOCYTOSIS.....	3R01 AM05472-14A1S1	17,818
ELSACH, PETER	METABOLISM OF MEMBRANES AND PHAGOCYTOSIS.....	5R01 AM05472-15	93,954
FARBER, SAUL J.	HYPERTENSION, HEART FAILURE & RENAL PROSTAGLANDINS.....	5R01 HL17829-02	106,359
FOX, ARTHUR C.	ADENOSINE AND THE REGULATION OF CORONARY FLOW.....	5R01 HL16412-02	31,082
FRANKLIN, EDWARD C.	IMMUNOLOGIC STUDIES OF AMYLOID ACCOMPANYING AGING.....	2R01 AG00458-03	42,441
FRANKLIN, EDWARD C.	RHEUMATIC DISEASES STUDY GROUP.....	2P01 AM01431-20	341,653



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
FRANKLIN, EDWARD C.	STRUCTURE OF IMMUNOGLOBULINS AND RELATED PROTEINS	5R01 AM02594-18	131,957
FRANKLIN, EDWARD C.	STRUCTURE OF IMMUNOGLOBULINS AND RELATED PROTEINS	5R01 AM02594-19	123,793
FREEDMAN, LEWIS S.	NEONATAL UNDERNUTRITION, BIOGENIC AMINES AND STRESS	1R01 HD10309-01	50,452
FREEDMAN, MICHAEL L.	CONTROL OF POLYRIBOSOMES IN HUMAN RETICULOCYTES	5R01 AM13532-07	44,969
GALDSTON, MORTON	PROTEASE/ANTIPROTEASE/CHRONIC OBSTRUCTIVE DISEASES	5R01 HL14700-03	69,074
GARDNER, ESTHER P.	NEURAL MECHANISMS OF CUTANEOUS SPATIAL INTEGRATION	5R01 NS11862-02	38,223
GARDNER, ESTHER P.	NEURAL MECHANISMS OF CUTANEOUS SPATIAL INTEGRATION	5R01 NS11862-03	32,291
GERSHON, ANNE A.	V-Z VIRUS: CLINICAL IMPLICATIONS OF IMMUNITY	5R01 AI12814-02	47,449
GIDDON, DONALD B.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05332-15	23,543
GILMOUR, DOUGLAS G.	CHICKEN LYMPHOCYTE ALLOANTIGENS AND VIRAL ONCOGENESIS	5R01 CA14061-04	161,722
GILMOUR, DOUGLAS G.	CHICKEN LYMPHOCYTE ALLOANTIGENS AND VIRAL ONCOGENESIS	5R01 CA14061-05	179,830
GOLDBERG, BURTON D.	THE BIOSYNTHESIS AND METABOLISM OF PROCOLLAGEN	5R01 HL17551-02	89,146
GOLDFEDER, ANNA	CELL KINETICS OF IRRADIATED TUMORS	2R01 CA12076-04A2	56,186
GOLDFEDER, ANNA	CELL KINETICS OF IRRADIATED TUMORS	5R01 CA12076-05	67,585
GOLDSTEIN, BERNARD D.	BIOCHEMICAL EFFECTS OF OZONE AND NO <sub>2</sub> IN THE LUNG	5R01 ES00673-05	36,761
GOLDSTEIN, BERNARD D.	ARSINE TOXICITY: A POTENTIAL ENVIRONMENTAL HAZARD	1R01 ES01256-01	53,513
GOLDSTEIN, BERNARD D.	ARSINE TOXICITY: A POTENTIAL ENVIRONMENTAL HAZARD	5R01 ES01256-02	57,033
GOLDSTEIN, BERNARD D.	FLUORESCENT DETECTION OF RED CELL LIPID PEROXIDATION	5R01 HL18163-02	31,034
GOLDSTEIN, IRA M.	COMPLEMENT MEDIATED IMMUNOPATHOLOGY	5R01 AM18531-02	35,318
GOLDSTEIN, MENEK	BIOGENIC AMINES AND EXTRAPYRAMIDAL DISORDERS	5R01 NS06801-10	104,043
GOLOMB, FREDERICK M.	COOPERATIVE STUDY OF ONCOLOGY	3R01 CA12280-05S1	48,413
GORDON, ALBERT S.	HUMORAL CONTROL OF BLOOD CELL FORMATION AND RELEASE	5R01 HL03357-19	164,003
GORDON, ALBERT S.	HUMORAL CONTROL OF BLOOD CELL FORMATION AND RELEASE	5R01 HL03357-20	154,930
GROVER-JOHNSON, NICOLA M.	DIABETIC NEUROPATHY AND PERIPHERAL VASCULAR DISEASE	1R01 HL20400-01	48,835
GUNNISON, ALBERT F.	DISTRIBUTION AND FATE OF INHALED SULFUR DIOXIDE	5R01 ES00613-05	18,913
GUTTENPLAN, JOSEPH B.	MECHANISM OF MUTAGENESIS AND CARCINOGENESIS	1R01 CA19023-01	53,350
HIRSCHHORN, ROCHELLE	ACTIVATION OF IMMUNOCOMPETENT LYMPHOCYTES	5R01 AI10343-05	54,692
HOCHWALD, GERALD M.	SPINAL FLUID PROTEINS AND BLOOD SPINAL FLUID BARRIER	5R01 NS05024-12	104,090
HOLLANDER, CHARLES S.	GENERAL CLINICAL RESEARCH CENTER	2W01 RR00096-16	1,073,033
HUH, MARTIN M.	REGULATION OF BIOGENIC AMINE METHYLTRANSFERASES	1R01 GM22943-01	40,898
IMPARATO, ANTHONY M.	INTIMAL FIBROPLASIA AFTER ARTERIAL RECONSTRUCTION	3R01 HL16290-02S1	6,121
DAVID, JAMSHID	AN IMMUNOLOGIC STUDY OF HEMOGLOBIN VARIATION IN MAN	1R01 HL19646-01	45,717
JOHNSON, ALAN J.	COAGULATION, FIBRINOLYSIS, HEMOSTASIS AND HEPATITIS	5P01 HL15596-03	680,234
KARPATKIN, SIMON	BIOCHEMISTRY, PHYSIOLOGY, IMMUNOLOGY OF HUMAN PLATELETS	5R01 HL13336-07	102,412
KAUFMAN, LLOYD	INTERSENSORY PERCEPTION OF RELATIONS IN TIME AND SPACE	5R01 NS12398-02	37,996
KAYDEN, HERBERT J.	LIPID METABOLISM	3R01 HL06481-13S1	26,552
KLEINBERG, DAVID L.	ROLE OF PROLACTIN IN BREAST AND PROSTATE CANCER	5R01 CA16149-03	45,272
KOPF, ALFRED W.	MALIGNANT MELANOMA CLINICAL COOPERATIVE GROUP	5R10 CA13662-04	77,570
KOPF, ALFRED W.	MALIGNANT MELANOMA CLINICAL COOPERATIVE GROUP	5R10 CA13662-05	81,608
KREIBICH, GERT	ORGANIZATION AND BIOSYNTHESIS OF ER MEMBRANE PROTEINS	5R01 GM21971-02	49,575
KROHN, DAVID L.	OCULAR CANCER DETECTION BY HEMATOPORPHYRIN FLUORESCENCE	5R01 CA18705-02	131,145
KUHNS, WILLIAM J.	ABO(H) BLOOD GROUPS AND BLOOD GROUP ENZYMES IN CANCER	3R01 CA15516-02S1	14,777
LAMM, MICHAEL E.	STUDIES ON SECRETORY IMMUNOGLOBULIN	5R01 AI09738-05	75,068
LAMM, MICHAEL E.	ANTIGENIC CHANGES IN MOUSE LEUKEMOGENESIS	2R01 CA008627-10	50,502
LAVIETES, BEVERLY B.	EXPLOITABLE DIFFERENCES IN TUMOR CELL METABOLISM	5R01 CA13074-04	33,479
LAVIETES, BEVERLY B.	EXPLOITABLE DIFFERENCES IN TUMOR CELL METABOLISM	5R01 CA13074-05	35,296
LAWRENCE, H SHERWOOD	CELLULAR IMMUNE RESPONSES-NATURE OF TRANSFER FACTOR	3R01 AI01254-19S1	1,970
LAWRENCE, H SHERWOOD	CELLULAR IMMUNE RESPONSES-NATURE OF TRANSFER FACTOR	5R01 AI01254-20	117,361
LAWRENCE, H SHERWOOD	CELLULAR IMMUNE RESPONSES-NATURE OF TRANSFER FACTOR	2R01 AI01254-21	61,433
LAWRENCE, H SHERWOOD	CANCER SUPPORT GRANT (COMPREHENSIVE)	5P30 CA16087-02	1,387,251
LAWRENCE, H SHERWOOD	IMMUNOLOGIC ASPECTS OF CANCER	3P01 CA16247-02S2	9,266
LAWRENCE, H SHERWOOD	IMMUNOLOGIC ASPECTS OF CANCER	5P01 CA16247-03	496,268
LE GEROS, RACQUEL Z.	ENAMEL APATITES RELATING TO CARIES SUSCEPTIBILITY	5R01 DE04123-02	89,133
LEVITZ, MORTIMER	ESTROGEN METABOLISM AND ACTION IN PREGNANCY AND CANCER	5R01 CA02071-23	131,092
LIKHTE, VINAY	RNA-ASSOCIATED TRANSFER FACTORS IN TUMOR IMMUNITY	5R01 CA171104-03	38,727
LIPKIN, GEORGE	RESTORATION OF CONTACT INHIBITION IN MELANOMAS	5R01 CA16013-02	111,519
LIPKIN, GEORGE	SUPPRESSION OF GROWTH OF COLON CARCINOMA	5R26 CA18034-02	73,940
LIPPMANN, MORTON	REGIONAL DEPOSITION OF INHALED PARTICLES IN MAN	2R01 ES00881-04	67,763
LUNAS, RODOLFO R.	NEUROBIOLOGY OF THE CEREBELLAR-BRAIN STEM SYSTEM	1P01 NS13742-01	387,488
LO BUE, JOSEPH	PATHOPHYSIOLOGY OF A VIRALLY-INDUCED MURINE LEUKEMIA	5R01 CA12815-04	80,941

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
LOWENSTEIN, JEROME	THE CONTROL OF ALDOSTERONE SECRETION	3R01 HL17450-01S1	23,080
LOWENSTEIN, JEROME	THE CONTROL OF ALDOSTERONE SECRETION	5R01 HL17450-02	70,816
MAAS, WERNER K.	CONTROL OF REPLICATION OF GENETIC ELEMENTS IN BACTERIA	5R01 AI09079-08	72,587
MAAS, WERNER K.	REGULATION OF ENZYME SYNTHESIS IN BACTERIA	5R01 GM06064-18	84,223
MC FALL, ELIZABETH	STUDIES ON CONTROL MECHANISMS IN ENZYME BIOSYNTHESIS	5R01 GM11899-13	55,662
MEISS, HARRIET K.	ISOLATION AND ANALYSIS OF DNA MUTANTS OF BHK CELLS	5R01 CA116631-02	42,340
MERCURIO, ANTHONY R.	ULTRASTRUCTURE OF MUCOUS SECRETING SALIVARY GLANDS	5R23 DE03909-02	6,300
MERCURIO, ANTHONY R.	ULTRASTRUCTURE OF MUCOUS SECRETING SALIVARY GLANDS	5R23 DE03909-03	5,250
MUSACCHIO, JOSE M.	REGULATION OF CATECHOLAMINE BIOSYNTHESIS	5R01 AM13128-10	63,239
NELSON, NORTON	RESEARCH IN ENVIRONMENTAL CANCER	2P01 CA13343-04	452,717
NELSON, NORTON	RESEARCH IN THE ENVIRONMENTAL HEALTH SCIENCES	5P30 ES00260-14	1,462,876
NELSON, NORTON	RESEARCH PLANNING IN ENVIRONMENTAL HEALTH SCIENCES	1R13 ES01470-01	301,619
NEWALL, JOSEPH	RADIATION THERAPY ONCOLOGY GROUP	2R10 CA15938-03	57,178
NUSSENZWEIG, RUTH S.	VACCINATION WITH IRRADIATED SPOROZOITES OF PLASMODIA	5R01 AI08952-08	84,535
NUSSENZWEIG, RUTH S.	SURFACE PROPERTIES OF SPOROZOITES OF PLASMODIA	1R01 AI13366-01	55,385
NUSSENZWEIG, VICTOR	CELL COOPERATION IN THE IMMUNE RESPONSE	2R01 AI08499-09	86,731
NUSSENZWEIG, VICTOR	C3, C3 RECEPTORS AND THE H-2 REGION	1R01 AI13224-01	101,548
OVARY, ZOLTAN	IMMUNOLOGICAL MECHANISM OF ANAPHYLAXIS	5R01 AI03075-17	119,567
PALMES, EDWARD D.	MOUSE POPULATIONS AS TEST SYSTEMS IN TOXICOLOGY	5R01 ES00552-03	89,058
PASTERNAK, BERNARD S.	HUMAN RADIOACTIVITY DOSE STUDY	5R01 ES01120-02	37,606
PESKIN, CHARLES S.	COMPUTATIONAL METHODS IN CARDIAC FLUID DYNAMICS	5R01 HL17859-02	45,912
PHILLIPS-QUAGLIATA, JULIA	ANTIBODY MEDIATED CELL-CELL INTERACTIONS	9R01 CA20045-07	67,154
PIOMELLI, SERGIO	THE MECHANISM OF RED CELLS AGING—HEMOLYTIC ANEMIAS	5R01 AM09274-11	75,048
PIOMELLI, SERGIO	THE MECHANISM OF RED CELLS AGING—HEMOLYTIC ANEMIAS	5R01 AM09274-12	77,645
PIOMELLI, SERGIO	SCREENING OF URBAN CHILDREN FOR LEAD POISONING	3R01 ES00976-01S1	1,696
PIOMELLI, SERGIO	SCREENING OF URBAN CHILDREN FOR LEAD POISONING	5R01 ES00976-02	92,177
PIOMELLI, SERGIO	SCREENING OF URBAN CHILDREN FOR LEAD POISONING	5R01 ES00976-03	83,433
PIOMELLI, SERGIO	REDUCTION OF FE OVERLOAD IN THALASSEMIA	1R01 HL19946-01	65,951
POST, JOSEPH	TUMOR CELL PROLIFERATION	2R01 CA14432-04	127,066
POTTER, JACOBUS	ANIMAL RESOURCES IMPROVEMENT PROGRAM	5P40 RR00830-03	36,271
QUARTERMAIN, DAVID	MEMORY STORAGE & RETRIEVAL: THE ROLE OF CATECHOLAMINES	1R01 NS12633-01A1	62,771
RABINOVITCH, MICHEL P.	MACROPHAGE SPREADING AND PARTICLE RECOGNITION	5R01 AI10969-06	60,599
RABINOVITCH, MICHEL P.	MACROPHAGE AND TUMOR CELL INTERACTIONS	5R01 CA15565-03	37,485
RABINOVITCH, MICHEL P.	CONTROL OF CELL SHAPE IN NORMAL AND TRANSFORMED CELLS	1R01 GM23093-01	36,082
RANSOHOFF, JOSEPH	CSF FORMATION AND ABSORPTION IN HYDROCEPHALUS	5R01 NS06599-10	44,219
RANSOHOFF, JOSEPH	HEAD INJURY CLINICAL CENTER RESEARCH PROGRAM	2P50 NS07366-08	348,947
RANSOHOFF, JOSEPH	CLINICAL RESEARCH CENTER FOR ACUTE SPINAL CORD INJURIES	5P50 NS10164-04	527,523
RAPAPORT, FELIX T.	INDUCTION OF UNRESPONSIVENESS TO ALLOGRAFTS	5R01 AI10658-04	98,131
RAPAPORT, FELIX T.	MECHANISMS OF CELL DAMAGE IN SEVERE BURNS	2R01 GM12748-12	106,573
REEM, GABRIELLE H.	PURINE METABOLISM IN GENETIC DISEASE AND LEUKEMIA	5R01 AM15262-06	72,464
RIPPS, HARRIS	VISUAL ADAPTATION IN THE VERTEBRATE RETINA	3R01 EY00285-11S1	23,867
RIPPS, HARRIS	VISUAL ADAPTATION IN THE VERTEBRATE RETINA	2R01 EY00285-12	126,688
ROSENBLUTH, JACK	COMPARATIVE CYTOLOGY OF MUSCLE AND NERVE TISSUES	5R01 NS07495-09	60,894
ROSENBLUTH, JACK	CYTOLOGY AND FUNCTION OF ADRENERGIC NEURONS IN BRAIN	5R01 NS09331-06	57,838
ROSSMAN, TOBY G.	CANCER AND ERROR-PRONE DNA REPAIR IN ANIMAL CELLS	1R01 CA19421-01	54,223
ROTH, SIDNEY G.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07062-11	55,973
SABATINI, DAVID D.	ATTACHMENT OF RIBOSOMES TO MICROSOMAL MEMBRANES	5R01 GM20277-04	83,497
SAGE, HAROLD H.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA18002-02	77,634
SAGER, NAOMI	COMPUTER STRUCTURING OF MEDICAL NARRATIVE	1R01 LM02616-01	53,013
SAGER, NAOMI	COMPUTER STRUCTURING OF MEDICAL NARRATIVE	5R01 LM02616-02	59,018
SAMUELS, HERBERT H.	METABOLIC EFFECTS OF THYROID HORMONES IN CELL CULTURE	2R01 AM16636-04	85,055
SCHREIBER, SIDNEY S.	CARDIAC PROTEIN SYNTHESIS; OVERLOAD, ALCOHOL & ANOXIA	5R01 HL09562-11	67,999
SCHREIBER, SIDNEY S.	CARDIAC PROTEIN SYNTHESIS; OVERLOAD, ALCOHOL & ANOXIA	5R01 HL09562-12	71,513
SEGAL, ALVIN	MODE OF ACTION OF BETA-PROPIOLACTONE IN CARCINOGENESIS	5R01 CA16992-02	62,022
SHAPIRO, ROBERT	DAMAGE TO NUCLEIC ACIDS BY BISULFITE (SULFUR DIOXIDE)	5R01 ES01033-05	64,976
SHAPIRO, ROBERT	DAMAGED DNA: THE STRUCTURE OF DNA CROSS-LINKS	5R01 GM20176-03	32,379
SHAPIRO, ROBERT	DAMAGED DNA: THE STRUCTURE OF DNA CROSS-LINKS	5R01 GM20176-04	65,409
SILBER, ROBERT	ENZYME STUDIES IN EXPERIMENTAL LEUKEMIA	5R01 CA06657-14	55,090
SILBER, ROBERT	STUDIES OF LEUKOCYTE METABOLISM	5R01 CA11655-09	82,549
SILBER, ROBERT	EASTERN COOPERATIVE ONCOLOGY GROUP STUDIES	3R10 CA16395-01S1	19,059

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
SPRITZ, NORTON.....	CONTROL OF MYELIN SYNTHESIS IN NORMAL & DIABETIC STATES.....	5R01 NS10763-08	68,441
SZER, WLODZIMIERZ.....	REGULATORY MECHANISMS IN PROTEIN BIOSYNTHESIS.....	9R01 GM23705-04	66,701
TAO, TERENCE C.....	ENERGY TRANSFER STUDIES ON MUSCLE PROTEINS.....	1R01 AM18694-01	41,788
TEEBOR, GEORGE W.....	REPAIR MUTANTS ENZYMES & CHEMICAL CARCINOGENESIS.....	5R01 CA16669-02	82,556
THORBECKE, GEERTRUIDA J.....	LYMPHOID CELLS—PRODUCTION OF ANTIBODIES AND COMPLEMENT.....	5R01 AI03076-17	89,121
THORBECKE, GEERTRUIDA J.....	PROPERTIES OF LYMPHOID TUMOR CELLS IN VIVO AND IN VITRO.....	2R01 CA14462-04	75,225
TONNA, EDGAR A.....	SKELETAL CELL AND MATRICAL CHANGES DURING AGING.....	9R01 AG00314-09	92,654
TROLL, WALTER.....	THE CONTROL OF BLADDER CANCER.....	2R26 CA15315-03	58,898
TROLL, WALTER.....	INHIBITION OF TUMOR PROMOTION BY PROTEASE INHIBITORS.....	5R01 CA16060-05	98,649
TROLL, WALTER.....	CORRELATION OF CARCINOGENICITY AND MUTAGENICITY.....	5R01 ES00505-10	74,850
VALENTINE, FRED T.....	CELL-MEDIATED IMMUNITY IN HUMANS: MECHANISMS AND USES.....	1R01 CA19529-01	38,460
VAN DUUREN, BENJAMIN L.....	INTERACTION OF ONCOGENIC AGENTS WITH CELL MEMBRANES.....	5R01 CA14211-03	74,985
VAN DUUREN, BENJAMIN L.....	COCARCINOGENIC AGENTS IN CHEMICAL CARCINOGENESIS.....	5R01 CA15095-03	61,405
VAN DUUREN, BENJAMIN L.....	CARCINOGENIC INTERMEDIATES OF VINYL CHLORIDE & ANALOGS.....	5R01 ES01150-02	48,760
VANDERBERG, JEROME P.....	STUDIES ON THE SPOOROZITE OF PLASMODIUM.....	2R01 AI09560-06A1	69,819
VILCEK, JAN T.....	INTERFERON AND RESISTANCE TO VIRUS INFECTION.....	5R01 AI07057-11	70,030
VILCEK, JAN T.....	CHARACTERIZATION OF HUMAN INTERFERONS.....	1R01 AI12948-01	65,656
WEISS, GERSON.....	CONTROL OF THE PREGNANCY CORPUS LUTEUM.....	5R01 HD09034-02	31,514
WEISSMANN, GERALD.....	MECHANISMS OF ARTHRITIS.....	5R01 AM11949-09	130,632
WEISSMANN, GERALD.....	MECHANISMS OF ARTHRITIS.....	5R01 AM11949-10	135,171
WEISSMANN, GERALD.....	EXPERIMENTAL THERAPY OF GENETIC STORAGE DISEASES.....	1R01 GM23211-01	45,304
WEISSMANN, GERALD.....	LYSOSOMAL PROTEASES AND CHRONIC PULMONARY DISEASE.....	5R01 HL15140-03	58,607
WEISSMANN, GERALD.....	MODIFICATION OF TISSUE INJURY IN MYOCARDIAL INFARCTION.....	1R01 HL19072-01	55,014
WEISSMANN, GERALD.....	LUNG INFLAMMATION: LYSOSOMAL PROTEASES AND LIPOSOMES.....	1R01 HL19721-01	110,906
WESSLER, STANFORD.....	ON THE ANTITHROMBOTIC ACTION OF HEPARIN.....	5R01 HL18333-03	118,720
WHEATLEY, VICTOR R.....	SEBOCYTE DIFFERENTIATION IN NORMAL AND TUMOR TISSUE.....	1R01 AM18792-01	58,784
WOLFF, B BERTHOLD.....	TOOTH PULP PAIN: ANALGESIC AND BEHAVIORAL FACTORS.....	5R01 DE04095-02	89,922
WOLFF, B BERTHOLD.....	STUDY OF RELIEF OF HUMAN LABORATORY-INDUCED PAIN.....	5R01 GM20228-03	79,733
WU, WEN-HSIEN.....	STUDIES OF PATHOPHYSIOLOGY OF VASOPRESSIN IN MAN.....	5R01 HL17723-03	63,878
YEATES, DONOVAN B.....	REGIONAL MUCCILIARY TRANSPORT IN THE HUMAN LUNG.....	1R01 HL19431-01	43,599
YUE, ROBERT H.....	STUDIES ON ANTITHROMBIN III.....	5R01 HL17582-02	29,108
YUE, ROBERT H.....	STUDIES ON ANTITHROMBIN III.....	5R01 HL17582-03	30,790
ZADUNASKY, JOSE A.....	CORNEAL ELECTROPHYSIOLOGY.....	5R01 EY01340-03	120,353
ZOLLA, SUSAN B.....	MECHANISM OF IMMUNOSUPPRESSION BY MOUSE PLASMACYTOMAS.....	5R01 CA15496-06	38,417
ZOLLA, SUSAN B.....	A SOLUBLE MEDIATOR OF TUMOR-INDUCED IMMUNOSUPPRESSION.....	5R01 CA15585-03	37,400
ZUCKER-FRANKLIN, DOROTHEA.....	ULTRASTRUCTURE OF LEUKOCYTES AND PLATELETS.....	5R01 AM12274-09	83,688
ORGANIZATION TOTAL	214	21,343,716	
<b>NEW YORK ZOOLOGICAL SOCIETY ZIP CODE 10460</b>			
KALLMAN, KLAUS D.....	INTEGRATED GENETIC SYSTEMS IN XIPHOPHORUS.....	5R01 GM19934-14	43,669
ORGANIZATION TOTAL	1	43,669	
<b>POLYTECHNIC INSTITUTE OF NEW YORK ZIP CODE 11201</b>			
COPLEY, ALFRED L.....	FIBRINOGEN POLYMER LAYERS: RHEOLOGY & ULTRASTRUCTURE.....	5R01 HL19013-02	47,319
MORAWETZ, HERBERT.....	SYNTHETIC POLYMER STUDIES RELATED TO BIOLOGY.....	5R01 GM05811-16	57,886
NIELSEN, JOHN P.....	STUDY OF DENTAL GOLD-BASE ALLOYS.....	5R01 DE03613-02	72,080
TOONEY, NANCY M.....	STUDIES OF MICROCRYSTALLINE & CRYSTALLINE FIBRINOGEN.....	1R01 HL18533-01	39,308
ORGANIZATION TOTAL	4	216,593	
<b>POPULATION COUNCIL ZIP CODE 10017</b>			
SEGAL, SHELTON J.....	POPULATION STUDIES.....	5P30 HD05671-05	646,476
WILLIAMSON, NANCY E.....	EVALUATION OF A SEX PRE-SELECTION CLINIC IN SINGAPORE.....	1R01 HD10931-01	14,118
ORGANIZATION TOTAL	2	660,594	
<b>RIVERSIDE RESEARCH INSTITUTE ZIP CODE 10023</b>			
LIZZI, FREDERIC L.....	ULTRASONIC EVALUATION OF OCULAR TISSUES.....	5R01 EY01212-03	88,992
LIZZI, FREDERIC L.....	STUDY OF ULTRASONICALLY INDUCED OCULAR DAMAGE.....	5R01 EY01480-02	114,360
LIZZI, FREDERIC L.....	STUDY OF ULTRASONICALLY INDUCED OCULAR DAMAGE.....	5R01 EY01480-03	117,138
ORGANIZATION TOTAL	3	320,490	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>ROCKEFELLER UNIVERSITY ZIP CODE 10021</b>			
AHRENS, EDWARD H, JR.....	CLINICAL AND LABORATORY STUDIES IN LIPID METABOLISM.....	5R01 HL06222-15	318,556
AHRENS, EDWARD H, JR.....	CLINICAL AND LABORATORY STUDIES IN LIPID METABOLISM.....	5R01 HL06222-16	363,428
AHRENS, EDWARD H, JR.....	RESEARCH IN PREVENTION OF PREMATURE ARTERIOSCLEROSIS.....	3P50 HL14236-05S1	1,026,178
ALLFREY, VINCENT G.....	NUCLEAR PROTEINS IN CARCINOGENESIS OF THE COLON.....	2R26 CA14908-03	139,148
ALLFREY, VINCENT G.....	CHEMISTRY AND METABOLISM OF DNA-ASSOCIATED PROTEINS.....	2R01 GM17383-06	89,775
ASANUMA, HIROSHI.....	CEREBRAL CORTICAL CONTROL OF MOVEMENT.....	5R01 NS10705-04	86,741
ASANUMA, HIROSHI.....	CEREBRAL CORTICAL CONTROL OF MOVEMENT.....	5R01 NS10705-05	95,700
BEERS, WILLIAM H.....	THE ROLE OF PLASMINOGEN ACTIVATOR IN OVULATION.....	1R01 HD09401-01A1	66,886
BIANCO, CELSO.....	TUMOR RECOGNITION BY NORMAL AND ACTIVATED MACROPHAGES.....	1R01 CA19056-01	51,393
BLOBEL, GUNTER K.....	FREE AND MEMBRANE-BOUND POLYSOMES IN PROTEIN SYNTHESIS.....	5R01 CA12413-05	158,984
BLOBEL, GUNTER K.....	NUCLEAR PORE COMPLEX—LAMELLA STRUCTURE AND FUNCTION.....	5R01 GM21751-02	29,043
BOWERS, WILLIAM E.....	LYMPHOCYTE-MEDIATED CYTOTOXICITY AGAINST TUMOR CELLS.....	5R01 CA16875-02	61,341
BRAUN, ARMIN C.....	TRANSFORMATION AND RECOVERY OF CROWN GALL TUMOR CELLS.....	5R01 CA13808-04	92,519
CERAMI, ANTHONY.....	THE IDENTIFICATION OF NEW IRON-CHELATING DRUGS.....	1R01 AM18894-01A1	48,334
CERAMI, ANTHONY.....	BIOLOGICAL EFFECT OF CYANATE ON SICKLE CELL DISEASE.....	3R01 HL14873-03S1	65,720
CERAMI, ANTHONY.....	BIOLOGICAL EFFECT OF CYANATE ON SICKLE CELL DISEASE.....	2R01 HL14873-04	64,218
CERAMI, ANTHONY.....	CLINICAL MANAGEMENT OF THALASSEMIA: CHELATOR DEVELOPMENT.....	1R01 HL20016-01	99,452
CERAMI, ANTHONY.....	PROTEIN MODIFICATION: THE KEY TO DIABETIC SEQUELAE.....	1R01 HL20520-01	64,060
CHASE, MERRILL W.....	MECHANISMS OF DELAYED-TYPE HYPERSENSITIVITY.....	5R01 AI01258-20	94,571
CHOPPIN, PURNELL W.....	MYXOVIRUS STRUCTURE, REPLICATION, MEMBRANE INTERACTION.....	2R01 AI05600-14	165,364
CHUA, NAM-HAI.....	MEMBRANE-BOUND RIBOSOMES IN CHLOROPLASTS AND BACTERIA.....	5R01 GM21060-03	44,449
COHN, ZAVIVIL A.....	THE PHYSIOLOGY OF MACROPHAGES.....	2R01 AI07012-11	103,374
CRANFIELD, PAUL F.....	MECHANISM AND PREVENTION OF CARDIAC ARRHYTHMIAS.....	5R01 HL14899-04	65,153
CRANFIELD, PAUL F.....	MECHANISM AND PREVENTION OF CARDIAC ARRHYTHMIAS.....	5R01 HL14899-05	75,446
DARNELL, JAMES E, JR.....	RNA AND GROWTH CONTROL IN ANIMAL CELLS.....	5R01 CA16006-03	184,569
DARNELL, JAMES E, JR.....	CORRELATED PROGRAM IN VIRAL ONCOLOGY.....	1P01 CA18213-01	291,608
DE DUVE, CHRISTIAN R.....	MECHANISMS OF CELLULAR AGING AND DEGENERATION.....	5P01 AG00367-06	190,001
DE DUVE, CHRISTIAN R.....	MECHANISMS OF CELLULAR AGING AND DEGENERATION.....	5P01 AG00367-07	193,171
DE DUVE, CHRISTIAN R.....	SUBCELLULAR EVENTS IN ATHEROSCLEROSIS.....	5R01 HL18157-02	141,589
EDELMAN, GERALD M.....	STRUCTURE AND ACTIVITY OF IG PROTEINS.....	5R01 AI09273-08	140,575
EDELMAN, GERALD M.....	CELL BIOLOGY & CHEMISTRY OF LYMPHOCYTES & THEIR PRODUCTS.....	5P01 AI11378-04	343,291
EDELMAN, GERALD M.....	INTERACTION AND ENERGY TRANSFER IN BIOLOGICAL SYSTEMS.....	5R01 AM04256-16	69,644
EDELMAN, GERALD M.....	INTERACTION AND ENERGY TRANSFER IN BIOLOGICAL SYSTEMS.....	2R01 AM04256-17	99,933
ERICKSON, BRUCE W.....	SYNTHESIS OF ANAPHYLATOXIC AND LEUCOTACTIC PEPTIDES.....	1R01 HL19795-01	67,360
FEDORKO, MARTHA E.....	IRON STORAGE & MOBILIZATION IN THE MACROPHAGE SERIES.....	5R01 AM14678-06	59,978
FEDORKO, MARTHA E.....	CELL BIOLOGY OF MEGAKARYOCYTES FROM BONE MARROW.....	5R01 HL16271-03	78,874
FIELD, FRANK H.....	PURIFICATION AND STRUCTURE OF ACTIVE PRINCIPLES.....	5R01 AM02493-18	152,824
FIELD, FRANK H.....	A MASS SPECTROMETRIC BIOTECHNOLOGY RESOURCE.....	5P41 RR00862-03	136,973
FISCHETTI, VINCENT A.....	PROPERTIES OF STREPTOCOCCAL M-PROTEINS.....	5R01 AI11822-03	40,601
GERSHEY, EDWARD L.....	NUCLEAR CONTROL MECHANISMS: THE ROLE OF POLYAMINES.....	1R01 GM21943-01A1	60,638
GILULA, NORTON B.....	HEART CELL INTERACTIONS AND CELL JUNCTION BIOGENESIS.....	5R01 HL16507-02	35,466
GOLDBERG, ALLAN R.....	RSV FUNCTIONS INVOLVED IN TRANSFORMATION.....	5R01 CA13362-05	51,543
GORDON, SAIMON.....	THE NATURE AND ROLE OF MACROPHAGE SECRETION.....	1R01 AI12975-01	59,714
GOTSCHLICH, EMIL C.....	IMMUNOCHEMICAL STUDIES ON GONOCOCCAL SURFACE ANTIGENS.....	5R01 AI10615-05	48,910
GOTSCHLICH, EMIL C.....	IMMUNOCHEMICAL STUDIES ON GONOCOCCAL SURFACE ANTIGENS.....	5R01 AI10615-06	80,342
GRANICK, SAM.....	HEME AND CHLOROPHYLL BIOSYNTHESIS.....	5R01 GM04922-20	53,081
GREGORY, JOHN D.....	LINKAGE REGION OF CARTILAGE KERATAN SULFATE.....	5R01 AM18165-02	43,161
GREGORY, JOHN D.....	BIOCHEMISTRY OF PROTEOGLYCANS OF THE DERMIS.....	1R01 AM18635-01	51,192
HANAFUSA, HIDESABURO.....	CELLULAR ALTERATION INDUCED BY ROUS SARCOMA VIRUS.....	2R01 CA14935-04	195,004
HAYWARD, WILLIAM S.....	RNA TUMOR VIRUS GENE EXPRESSION.....	5R01 CA16668-02	32,171
HAYWARD, WILLIAM S.....	RNA TUMOR VIRUS GENE EXPRESSION.....	5R01 CA16668-03	35,222
HIRSCH, JAMES G.....	FUNCTIONS OF LEUCOCYTES.....	5R01 AI01831-19	90,326
HIRSCH, JULES.....	METABOLIC REGULATIONS IN HUMAN OBESITY.....	5R01 AM18325-12	156,058
HOTCHKUSS, ROLLIN D.....	DEOXYRIBONUCLEATES GOVERNING DRUG RESISTANCE.....	5R01 AI03170-17	60,052
HSU, MING-TA.....	BASIC MECHANISM OF VIRAL ONCOGENESIS.....	1R01 CA19073-01	47,488
HURLBUT, WILLIAM P.....	TRANSMITTER RELEASE AT THE NERVE-MUSCLE JUNCTION.....	5R01 NS10883-03	47,891
KAPPAS, ATTALLAH.....	LEAD AND PCBs: PHARMACOLOGIC AND TOXICOLOGIC STUDIES.....	5R01 ES01055-03	114,992
KINDT, THOMAS J.....	BACTERIAL ANTIGENS AND ANTIBODIES.....	5R01 AI08429-10	129,004



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
KINDT, THOMAS J.	GENETIC COMPONENTS OF THE IMMUNE RESPONSE	5R01 AI11439-03	45,049
KINDT, THOMAS J.	IMMUNOCHEMICAL STUDY OF RABBIT ANTIBODY ALLOTYPES	5R01 AI11995-03	80,397
KNIGHT, BRUCE W, JR	MATHEMATICAL ANALYSES OF NEURAL NETWORKS	5R01 EY01428-02	57,244
KNIGHT, BRUCE W, JR	MATHEMATICAL ANALYSES OF NEURAL NETWORKS	5R01 EY01428-03	64,799
KUNKEL, HENRY G	STUDIES OF MYELOMA PROTEINS AND ANTIBODIES	5R01 AI10811-11	71,975
KUNKEL, HENRY G	IMMUNOLOGICAL MECHANISMS IN RHEUMATOID ARTHRITIS	5R01 AM04761-16	69,109
LAZAROW, PAUL B.	BIOGENESIS OF RAT LIVER PEROXISOMES	1R01 AM19394-01	49,837
LIPMANN, FRITZ	NONRIBOSOMAL AND RIBOSOMAL POLYPEPTIDE SYNTHESIS	5R01 GM13972-10	176,906
LIPMANN, FRITZ	NONRIBOSOMAL AND RIBOSOMAL POLYPEPTIDE SYNTHESIS	5R01 GM13972-11	172,542
LIZARDI, PAUL M.	BIOGENESIS OF SILK FIBROIN MESSENGER RNA	1R01 GM22865-01	58,173
LUCK, DAVID J.	BIOCHEMICAL GENETICS OF MICROTUBULES	2R01 GM17132-07	96,838
LUCK, DAVID J.	BIOCHEMICAL GENETICS OF MICROTUBULES	5R01 GM17132-08	106,214
LUCK, DAVID J.	BIOGENESIS OF MITOCHONDRIA	5R01 GM21059-03	48,972
MANNING, JAMES M	ANTIBACTERIAL ACTION OF BETA-HALOAMINO ACIDS	5R01 AI12141-03	31,284
MANNING, JAMES M	CHEMICAL BASIS OF CYANATE THERAPY IN SICKLE CELL ANEMIA	5R01 HL18819-05	68,105
MAUZERALL, DAVID	PHOTOBIOLOGICAL STUDIES OF CYANATE AND MEMBRANE INTERFACES	5R01 GM20729-03	42,980
MC CARTY, MACLYN	CELL SURFACE OF STREPTOCOCCI	2R01 HL03919-18A1	82,714
MC CARTY, MACLYN	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00102-13	1,102,465
MC CARTY, MACLYN	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S07 RR07065-11	205,023
MC EWEN, BRUCE S.	GENE EXPRESSION IN NERVOUS TISSUE	5R01 NS07080-10	87,859
MC EWEN, BRUCE S.	GENE EXPRESSION IN NERVOUS TISSUE	5R01 NS07080-11	93,890
MERRIFIELD, ROBERT B.	SOLID PHASE SYNTHESIS OF PEPTIDES AND PROTEINS	5R01 AM01260-20	122,584
MERRIFIELD, ROBERT B.	SOLID PHASE SYNTHESIS OF PEPTIDES AND PROTEINS	5R01 AM01260-21	133,284
MULLER, MIKLOS	BIOCHEMICAL CYTOLOGY OF TRICHOMONAS VAGINALIS	5R01 AI11942-02	62,518
MULLER, MIKLOS	BIOCHEMICAL CYTOLOGY OF TRICHOMONAS VAGINALIS	5R01 AI11942-03	63,900
NORGREN, RALPH E	NEURAL SYSTEMS OF INGESTIVE BEHAVIOR	5R01 NS10150-05	50,586
PAFF, DONALD W.	BRAIN MECHANISMS OF REPRODUCTIVE BEHAVIOR	5R01 HD05751-05	69,576
PAFFMANN, CARL	COGNITIVE PROCESSES AND PSYCHOLINGUISTICS	5P01 GM21796-02	135,196
PAFFMANN, CARL	MECHANISMS OF OLFACTORY COMMUNICATION	5R01 NS08902-07	106,820
RATLIFF, FLOYD	ELECTRICAL ACTIVITY, SINGLE RECEPTORS, NEURONS OF EYE	5R01 EY00188-21	78,389
REEKE, GEORGE, JR	COMPUTING METHODS FOR MACROMOLECULAR CRYSTALLOGRAPHY	1R01 GM22663-01	38,597
REEKE, GEORGE, JR	COMPUTING METHODS FOR MACROMOLECULAR CRYSTALLOGRAPHY	5R01 GM22663-02	51,426
REICH, EDWARD	CHEMOTHERAPEUTIC DEOXYNUCLEOSIDES AND OTHER AGENTS	3R01 CA08290-10S2	52,184
REICH, EDWARD	CHEMOTHERAPEUTIC DEOXYNUCLEOSIDES AND OTHER AGENTS	5R01 CA08290-11	148,401
RIPKIN, DANIEL B.	MEMBRANE PROTEINS OF NORMAL AND MALIGNANT CELLS	5R01 CA11338-05	59,255
RUTISHAUSER, URS S.	CELL-CELL ADHESION AMONG EMBRYONIC CELLS	1R01 HD09635-01	77,465
RUTISHAUSER, URS S.	CELL-CELL ADHESION AMONG EMBRYONIC CELLS	5R01 HD09635-02	83,377
SCHLEE, GEORGE A.	SECRETORY PATHWAY IN THE EXOCRINE PANCREAS	5R01 AM18532-02	74,869
SCOTT, WILLIAM A, III	BIOCHEMICAL GENETICS OF MICROORGANISMS	5R01 GM16224-18	89,300
SCOTT, WILLIAM A, III	REGULATION OF MEMBRANE ADENYL CYCLASE	5R01 GM21071-02	27,044
SCOTT, WILLIAM A, III	CALCIUM BINDING PROTEIN OF CHORIOALLANTOIC MEMBRANE	1R01 HD10299-01	41,804
SHAPLEY, ROBERT M.	SPATIAL SUMMATION AND DYNAMICS OF VISUAL NEURONS	5R01 EY01472-02	42,591
SHAPLEY, ROBERT M.	SPATIAL SUMMATION AND DYNAMICS OF VISUAL NEURONS	5R01 EY01472-03	46,440
SIEKEVITZ, PHILIP	CELL BIOLOGY OF THE SYNAPSE	1R01 NS12726-01A1	63,746
SILVERSTEIN, SAMUEL C.	ROLE OF MONONUCLEAR LEUCOCYTES IN VIRAL IMMUNITY	5R01 AI08697-08	66,465
SILVERSTEIN, SAMUEL C.	PLASMINOGEN ACTIVATORS OF MALIGNANCY	1R01 CA18945-01	58,318
STEIN, WILLIAM H.	CHEMICAL STRUCTURE AND ENZYME ACTIVITY OF PROTEINS	5R01 GM07256-17	115,547
STEINMAN, RALPH M.	CHARACTERIZATION OF LYMPHOID DENDRITIC CELLS	1R01 AI13013-01	45,063
TAMM, IGOR	VIRUS-INDUCED ALTERATIONS IN ANIMAL CELLS	5R01 CA18608-17	115,750
TOMASZ, ALEXANDER	TEICHOIC ACIDS: FUNCTIONS AND MODE OF REPLICATION	2R01 AI09423-07	61,648
TRAGER, WILLIAM	MEMBRANE PHYSIOLOGY IN INTRACELLULAR PARASITISM	5R01 AI08989-07	63,276
TRAGER, WILLIAM	PHYSIOLOGY OF INTRACELLULAR PARASITISM	5R01 AI10640-05	63,767
TRAGER, WILLIAM	HOST-PARASITE MEMBRANE INTERACTIONS IN LEISHMANIASIS	5R01 AI11916-02	67,470
WANG, JOHN L.	GROWTH REGULATION IN LYMPHOID AND NEOPLASTIC CELLS	1R01 CA19040-01	42,658
WILSON, VICTOR J.	STUDIES ON MOTOR CONTROL	2R01 NS02619-17	88,782
WINCHESTER, ROBERT J.	STUDIES OF B LYMPHOCYTE ALLOANTIGENS	1R01 CA20107-01	66,926
ZABRISKIE, JOHN B.	IMMUNOLOGIC RESPONSES IN NEOPLASTIC GROWTH	5R01 CA15167-03	34,114
ZABRISKIE, JOHN B.	CELLULAR AND HUMORAL REACTIONS IN TRANSPLANTATION	5R01 HL13572-05	28,980
ZIFF, EDWARD B.	STRUCTURE OF REGULATORY ELEMENTS IN ADENOVIRUS DNA	5R01 GM21779-02	32,173
ORGANIZATION TOTAL	117	12,535,749	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>ROOSEVELT HOSPITAL</b>	<b>ZIP CODE 10019</b>		
CHARGAFF, ERWIN.....	CELLULAR CONTROL MECHANISMS.....	1R01 CA19289-01	108,960
CHRISTY, NICHOLAS P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05663-09	31,261
FEIGELSON, MURIEL H.....	MECHANISMS OF POSTNATAL ENZYME DEVELOPMENT.....	5R01 HD08712-03	134,525
ROSNER, WILLIAM.....	ESTROGEN BINDING IN HUMAN SERUM.....	5R01 AM11852-09	81,439
ROSNER, WILLIAM.....	ESTROGEN BINDING IN HUMAN SERUM.....	5R01 AM11852-10	84,573
WEISS, HARVEY J.....	PRIMARY DISORDERS OF PLATELET FUNCTION.....	5R01 HL14595-05	108,479
ORGANIZATION TOTAL	6 549,237		
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH</b>	<b>ZIP CODE 10021</b>		
ALBRECHT, ALBERTA M.....	MICROBIAL ENZYMES IN THE THERAPY OF NEOPLASIA.....	5R01 CA17839-02	65,953
BALAZS, IVAN.....	DYNAMICS OF GENE PRODUCT SYNTHESIS IN MAMMALIAN CELLS.....	5R01 CA17159-02	56,750
BALIS, M EARL.....	ENZYMES OF NORMAL AND MALIGNANT INTESTINAL MUCOSA.....	2R26 CA14906-04	196,699
BALIS, M EARL.....	PREVENTION OF DEATH FROM RADIO- OR CHEMO-THERAPY.....	7R01 CA20395-01	40,929
BENNETT, DOROTHEA.....	IMMUNOGENETICS OF SPERMATOZOA, EGGS, AND EMBRYOS.....	7R01 HD10668-01	61,120
BIEDLER, JUNE L.....	DECREASED MALIGNANCY OF DRUG RESISTANT CELL VARIANTS.....	5R01 CA17927-02	78,538
BIEDLER, JUNE L.....	CYTOGENETICS OF AKR MOUSE LEUKEMIA.....	1R01 CA18926-01	36,391
BORENFREUND, ELLEN.....	IN VITRO CHEMICAL CARCINOGENESIS (DCCP-3).....	1R01 CA20019-01	53,414
BOYSE, EDWARD A.....	THE CELL SURFACE PROGRAM PROJECT.....	5P01 CA16889-02	1,043,848
BOYSE, EDWARD A.....	NATIONAL CONGENIC MOUSE SUPPLY-MULTICATEGORY RESEARCH.....	1P40 RR01001-01	197,271
BROWN, GEORGE B.....	STUDY OF ONCOGENESIS BY PURINE DERIVATIVES.....	5R01 CA15274-03	192,610
BROWN, GEORGE B.....	MOLECULAR BIOLOGY—CANCER PROGRAM PROJECT GRANT.....	5P01 CA17085-02	958,218
BURGER, RICHARD M.....	SV40 TRANSFORMATION OF GARDNER'S SYNDROME FIBROBLASTS.....	1R26 CA19259-01	77,086
CAVALIERI, LIEBE F.....	MECHANISM OF REVERSE TRANSCRIPTION OF ONCORNAVIRAL RNA.....	5R01 CA18383-02	56,218
CHIAO, JEN W.....	NATURE OF LYMPHOCYTES WITH BOTH B- AND T-CELL MARKERS.....	5R01 AI12843-02	28,535
CHOI, YONG SUNG.....	RECOGNITION OF TUMOR CELLS BY T LYMPHOCYTES.....	5R01 CA17049-03	61,332
CHOI, YONG SUNG.....	IMMUNOBIOLOGY, IMMUNODEFICIENCY, AND CANCER.....	5P01 CA17404-02	1,150,283
CHOU, TING-CHAO.....	CYTOTOXICITY OF CYTOSINE ARABINOSIDE IN VIVO.....	5R01 CA16534-02	51,067
CLARKSON, BAYARD D.....	CELL PROLIFERATION KINETICS IN HEMATOPOIETIC TUMORS.....	1R01 CA19117-01	153,000
CLARKSON, BAYARD D.....	HUMAN HEMATOPOIETIC TUMORS PROGRAM PROJECT.....	1P01 CA20194-01	311,970
COLBY, CLARENCE, JR.....	INTERFERON SYSTEM: A GENETIC AND BIOCHEMICAL ANALYSIS.....	7R01 AI13914-01	68,165
D'ANGIO, GIULIO J.....	RADIATION ONCOGENESIS & ACTINOMYCIN-D.....	1R01 CA18951-01	46,183
DAY, NOORBIBI K.....	COMPLEMENT AND IMMUNE COMPLEXES IN CANCER.....	1R01 CA18488-01A1	126,996
DIORJJEVIC, BOZIDAR.....	MODIFICATION OF RADIATION DAMAGE IN HYPOXIC CELLS.....	1R01 CA20470-01	33,187
DOOHER, GERALD B.....	CELL SURFACE ARCHITECTURE OF EMBRYOS AND SPERM.....	7R01 HD10669-01	57,482
DUPONT, BO.....	SPONTANEOUS REGRESSION IN RETINOBLASTOMA.....	1R01 EY01616-01	54,038
FAANES, RONALD B.....	ANTIBODY, LYMPHOID AND TUMOR CELL INTERACTION.....	5R01 CA16271-02	52,559
FISSEKUS, JOHN D.....	5-SUBSTITUTED PYRIMIDINES AND CANCER CHEMOTHERAPY.....	5R01 CA16191-03	45,036
FLEISSNER, ERWIN J.....	VIRAL AND MOUSE GENES IN LEUKEMIA VIRUS INFECTION.....	5R01 CA15297-03	94,516
FLEISSNER, ERWIN J.....	ONCOGENIC VIRUSES PROGRAM PROJECT.....	5P01 CA16599-02	737,506
FOX, JACK J.....	SYNTHETIC MASKED NUCLEOSIDES FOR ANTICANCER STUDIES.....	1R01 CA18601-01	183,288
FRIED, JERROLD.....	GROWTH KINETICS AND DRUG RESPONSE OF CELL POPULATIONS.....	5R01 CA16757-02	96,978
GINER-SOROLLA, ALFREDO.....	PSYCHOTROPIC DRUGS AS POTENTIAL CARCINOGENS.....	5R01 CA17860-02	60,674
GOLDSTEIN, GIDEON.....	THYMIN INDUCTION OF T-CELL DIFFERENTIATION.....	5R01 AI12487-03	65,770
GOLDSTEIN, GIDEON.....	T-CELL DIFFERENTIATION: MOLECULAR MECHANISMS.....	1R01 AI13374-01	43,127
GOOD, ROBERT A.....	NONSPECIFIC RESISTANCE TO INFECTION AND INTOXICATION.....	5R01 AI11843-04	82,915
GOOD, ROBERT A.....	CANCER RESEARCH PROGRAM.....	5P30 CA08748-11	8,821,101
GOOD, ROBERT A.....	PATHOGENESIS OF CNS AND AUTOIMMUNE DISORDERS.....	2R01 NS11457-03	115,155
GOOD, ROBERT A.....	PATHOGENESIS OF CNS AND AUTOIMMUNE DISORDERS.....	5R01 NS11457-04	121,927
GOOD, ROBERT A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05534-04	217,217
HAHN, ERIC W.....	HEAT AND RADIATION ON NEOPLASMS: OPTIMAL FRACTIONATION.....	2R01 CA17410-02	29,248
HAHN, ERIC W.....	FRACTIONATED HEAT AND/OR RADIATION ON NORMAL TISSUES.....	1R01 CA18962-01	47,410
HAMMERLING, ULRICH G.....	T-LYMPHOCYTES FROM PRECURSOR CELLS IN VITRO.....	5R01 HD08415-03	94,203
HARDY, WILLIAM D, JR.....	TUMOR THERAPY: EMPHASIS ON IMMUNOTHERAPY.....	1R01 CA19072-01	106,419
HAWRYLYKO, EUGENIA A.....	BCG POTENTIATED ANTITUMOR RESPONSE—ESCAPE MECHANISMS.....	1R01 CA18351-01	134,235
HOFFMAN, MICHAEL K.....	REGULATION OF IMMUNITY BY ANTIBODY AND B-CELLS.....	5R01 CA17673-02	72,899
KENYON, ALAN J.....	MASTOCYTOMAS AND LYMPHOPROLIFERATIVE DISEASES.....	5R01 CA15604-03	116,353
KIM, YOON B.....	ONTOGENY OF THE HUMORAL AND CELLULAR IMMUNE RESPONSE.....	3R01 HD08957-02S1	12,925
KINCADE, PAUL W.....	DESIGN OF A DIRECT ASSAY FOR HEMOPOIETIC STEM CELLS.....	5R01 AI12740-02	29,978

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
INCADÉ, PAUL W.	EARLY EVENTS IN MAMMALIAN B-CELL DIFFERENTIATION.....	5R01 AI12741-02	72,328
KISZISS, DAVID F.	AFFINITY LABELING OF LYMPHOCYTE ANTIGEN RECEPTORS.....	5R01 CA18613-02	73,867
KREIS, WILLI	TETRAHYDROURIDINE & L-BETA-D ARABINOFURANOSYLCYTOSINE.....	5R01 CA18557-02	42,514
KREIS, WILLI	TUMOR THERAPY BY L-METHIONINE DEPRIVATION.....	1R01 CA19050-01	60,872
KRUG, ROBERT M.	REPLICATION OF INFLUENZA VIRUS.....	5R01 AI11772-02	47,336
KRUG, ROBERT M.	REPLICATION OF INFLUENZA VIRUS.....	5R01 AI11772-03	41,419
LAUGHLIN, JOHN S.	CANCER STUDIES WITH NEW RADIOACTIVE SCANNING COMPOUNDS.....	1R01 CA18153-01	152,731
LIPKIN, MARTIN	RENEWAL OF PREMALIGNANT AND MALIGNANT INTESTINAL CELLS.....	5R01 CA14991-04	101,573
LITMAN, GARY W.	BIOPHYSICAL STUDIES OF MONOCLONAL CRYOIMMUNOGLOBULINS.....	1R01 AI13528-01	48,344
MARCUS, STUART L.	RLV DNA POLYMERASE ENZYMOLOGY AND RADIOIMMUNOASSAY.....	5R01 CA18369-02	56,698
MARQUARDT, HANS W.	HYDROCARBON-INDUCED MALIGNANT TRANSFORMATION IN VITRO.....	5R01 CA15205-03	25,414
MELERA, PETER W.	GROWTH AND DIFFERENTIATION PHASE BIOCHEMISTRY OF TRNA.....	1R01 GM21863-01A1	70,901
MOORE, MALCOLM A.	MARROW CULTURE STUDIES—HUMAN MYELOID LEUKEMIA, ETC.....	5R01 CA17353-02	90,138
MOORE, MALCOLM A.	DEVELOPMENT AND FUNCTION OF ACTIVATED MACROPHAGES.....	1R01 CA19052-01	65,347
OLD, LLOYD J.	HUMAN CANCER SEROLOGY.....	1P01 CA19765-01	408,580
PARHAM, JAMES C.	TRANSITION STATE ANALOGS OF PURINES FOR CHEMOTHERAPY.....	1R01 CA18965-01	52,022
PRICE, RICHARD W.	HERPES SIMPLEX VIRUS INFECTION OF AUTONOMIC GANGLIA.....	1R01 NS12396-01A1	64,425
ROBERTS, JOSEPH	A PROGRAM FOR DEVELOPMENT OF NEW ANTITUMOR ENZYMES.....	5R01 CA15860-03	73,219
ROBERTS, JOSEPH	THERAPY BY ENZYMIC DEPLETION OF ESSENTIAL AMINO ACIDS.....	1R01 CA18844-01	73,361
RUSS, GERALD A.	SELECTIVE IRRADIATION OF OSSEOUS TUMORS WITH 33P-HEDP.....	1R01 CA18873-01	53,257
SALSER, JOSEPHINE S.	METABOLIC CONTROLS OF THYMIDYLATE IN MALIGNANT GROWTH.....	1R01 CA19608-01	45,904
SARKAR, NURUL H.	COMPONENTS OF THE MOUSE MAMMARY TUMOR VIRUS.....	5R01 CA17129-02	60,576
SHAPIRO, WILLIAM R.	TREATMENT OF EXPERIMENTAL NERVOUS SYSTEM TUMORS.....	5R01 CA15792-03	69,554
SHERMAN, MERRY R.	GEL ELECTROPHORESIS OF BREAST CANCER STEROID RECEPTORS.....	5R01 CA16814-02	40,564
SHERMAN, MERRY R.	GEL ELECTROPHORESIS OF BREAST CANCER STEROID RECEPTORS.....	5R01 CA16814-03	42,685
SIROTNAK, FRANCIS M.	BASIC APPROACHES TO IMPROVED ANTIFOLATE CANCER THERAPY.....	5R01 CA16153-02	55,965
SKIPSKI, VLADIMIR P.	NEOPROTEOLIPIDS ASSOCIATED WITH MALIGNANT TUMORS.....	5R01 CA15169-03	52,687
SONENBERG, MARTIN	CELL SURFACE ALTERATIONS BY GROWTH HORMONES.....	1R01 AM18759-01	79,349
SONENBERG, MARTIN	HORMONE-MEMBRANE INTERACTION IN NEOPLASIA.....	5R01 CA15773-02	80,165
STACKPOLE, CHRISTOPHER W.	CELL SURFACE ALTERATIONS DURING ANTIGENIC MODULATION.....	5R01 CA16168-02	49,823
STEWART, WILLIAM E. II.	CHARACTERIZATION OF INTERFERONS AND THEIR ACTIONS.....	1R01 CA20863-01	54,417
STOCK, C CHESTER	AN EXPERIMENTAL CANCER CHEMOTHERAPY PROGRAM.....	1P01 CA18856-01	835,402
STOHRER, GERHARD	PURINE N-OXIDES AND OTHER ONCOGENS.....	1R01 CA19667-01	63,015
STUTMAN, OSIAS	IMMUNE SURVEILLANCE AND CANCER.....	5R01 CA15988-03	80,663
STUTMAN, OSIAS	TUMOR IMMUNITY AND TUMOR-HOST INTERACTIONS.....	1R01 CA17818-01	80,202
SWISLOCKI, NORBERT I.	LIGAND EFFECTS ON PURIFIED MEMBRANE ADENYLATE CYCLASE.....	1R01 AM18812-01A1	59,609
TELLER, MORRIS N.	IMMUNITY TO TUMOR FOLLOWING DRUG-INDUCED REMISSION.....	1R01 CA18253-01	61,762
TROTTA, PAUL P.	ADENOSINE DEAMINASE REGULATION AND ITS ROLE IN CANCER.....	5R01 CA18428-02	42,650
VARRICCHIO, FREDERICK	SITES OF HISTONE F1 PHOSPHORYLATION IN RAT PANCREAS.....	1R26 CA19584-01	62,150
WACHTEL, STEPHEN S.	SEROLOGICAL ANALYSIS OF EPIDERMAL CELL ANTIGENS.....	5R01 AI11982-02	59,691
WACHTEL, STEPHEN S.	SEROLOGICAL ANALYSIS OF EPIDERMAL CELL ANTIGENS.....	5R01 AI11982-03	52,161
WACHTEL, STEPHEN S.	H-Y ANTIGEN IN HUMANS WITH SEX-CHROMOSOMAL ANOMALIES.....	1R01 HD10065-01	52,601
WARFEL, ALWIN H.	KILLING OF CANCER CELLS BY BCG ACTIVATED CELLS.....	1R01 CA18893-01	36,259
WEISS, HERBERT	DENSELY IONIZING RADIATION AND OXYGEN TENSION IN CELLS.....	1R01 CA18179-01A1	78,081
YOUNG, CHARLES W.	PATHOPHYSIOLOGY IN MALIGNANT LYMPHOMA & LEUKEMIA.....	5R01 CA15928-02	43,120
ZEDECK, MORRIS S.	A MODEL SYSTEM FOR STUDIES OF COLON CARCINOGENESIS.....	5R26 CA15637-03	57,066
ORGANIZATION TOTAL	95	20,609,189	
<b>ST. LUKE'S HOSPITAL CENTER ZIP CODE 10025</b>			
BENNETT CLARK, SUSANNE	MECHANISMS OF CHYLOMICRON CHOLESTEROL HOMEOSTASIS.....	5R01 AM17685-03	74,831
BERNSTEIN, ROBERT S.	REGULATION OF ADIPOCYTE INSULIN SENSITIVITY.....	5R01 AM17200-03	69,853
BERTLES, JOHN F.	GENETIC CONTROL OF HEMOGLOBIN SYNTHESIS.....	5R01 AM08154-12	110,588
BERTLES, JOHN F.	SICKLE CELL HEMOGLOBIN INTERACTIONS AND AGGREGATION.....	3R01 HL15293-03S1	52,140
BERTLES, JOHN F.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5307 RR05501-14	71,718
BOKKENHEUSER, VICTOR D.	BACTERIA OF THE GASTROINTESTINAL TRACT.....	5R01 AM16588-03	49,422
CASE, ROBERT B.	CONTROL OF CORONARY FLOW BY PCO2.....	5R01 HL16307-03	35,713
FAIRCHILD, BEATRICE M.	SICKLE CELL HEMOGLOBIN: INTERACTIONS AND AGGREGATION.....	2R01 HL15293-04	65,926
FAIRCHILD, BEATRICE M.	SICKLE CELL HEMOGLOBIN: INTERACTIONS AND AGGREGATION.....	5R01 HL15293-05	128,064
HASHIM, GEORGE A.	SUPPRESSION OF EXPERIMENTAL ALLERGIC ENCEPHALOMYELITIS.....	1R01 NS12316-01	72,151
HASHIM, GEORGE A.	SUPPRESSION OF EXPERIMENTAL ALLERGIC ENCEPHALOMYELITIS.....	5R01 NS12316-02	76,668



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
HASHIM, SAMI A.....	MEDIUM CHAIN FATS: PHYSIOLOGY & CLINICAL IMPLICATIONS.....	5R01 AM17191-03	91,287
HASHIM, SAMI A.....	MEDIUM CHAIN FATS: PHYSIOLOGY & CLINICAL IMPLICATIONS.....	5R01 AM17191-04	105,315
HOLT, PETER R.....	INTESTINAL ABSORPTION AND METABOLISM OF FATS.....	5R01 AM13436-12	153,818
PIERCE, JAMES C.....	HUMORAL ANTIBODY AND RENAL ALLOGRAFT REJECTION.....	1R01 AM19470-01	63,021
PIERSON, RICHARD N, JR.....	QUANTITATIVE RADIOCARDIOGRAPHY: A CRITICAL EVALUATION.....	5R01 HL16313-02	77,679
POILLON, WILLIAM N.....	CHEMICAL MODIFICATIONS OF SICKLE CELL HEMOGLOBIN.....	5R01 AM17751-02	51,715
RYAN, STEPHEN F.....	EXPERIMENTAL ACUTE ALVEOLAR INJURY.....	5R01 HL16592-02	104,969
VAN ITALLIE, THEODORE B.....	BODY NUTRIENT RESERVES AND FEEDING BEHAVIOR.....	5R01 AM17259-03	66,217
VAN ITALLIE, THEODORE B.....	OBESITY CENTER.....	5P50 AM17624-02	221,502
ORGANIZATION TOTAL	20	1,742,597	
<b>ST. VINCENT'S HOSPITAL AND MEDICAL CENTER OF NEW YORK ZIP CODE 10011</b>			
BARTFELD, HARRY.....	CAUSE AND MECHANISMS OF AMYOTROPHIC LATERAL SCLEROSIS.....	3P01 NS11605-01A1S1	19,537
BARTFELD, HARRY.....	CAUSE AND MECHANISMS OF AMYOTROPHIC LATERAL SCLEROSIS.....	5P01 NS11605-02	257,680
GROSSI, CARLO E.....	SURGICAL TREATMENT OF COLORECTAL CANCER, NEW TECHNIQUE.....	5R01 CA10661-09	48,758
MAZZARA, JAMES T.....	P50 EFFECT ON EXERCISE LIMIT IN STABLE ANGINA.....	1R01 HL18984-01	30,481
NEALON, THOMAS F, JR.....	PRIMARY BREAST CANCER THERAPY GROUP (NSABP).....	5R10 CA12037-05	34,230
NEALON, THOMAS F, JR.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA12288-05S1	46,727
NEALON, THOMAS F, JR.....	THE NUTRITIONAL COMPONENT OF CANCER THERAPY.....	1R18 CA19632-01	64,814
SCHWARZ, GEORGE.....	X-RAY DOSE RATE EFFECTS ON CELL KINETICS.....	5R01 CA17582-02	8,908
SCHWARZ, GEORGE.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05502-12	39,831
ORGANIZATION TOTAL	9	550,966	
<b>STATE UNIVERSITY OF NEW YORK—DOWNSTATE MEDICAL CENTER ZIP CODE 11203</b>			
ALTURA, BURTON M.....	CIRCULATORY SHOCK, TRAUMA AND RE-SYSTEM FUNCTION.....	5R01 HL18002-02	63,969
AMASSIAN, VAHE E.....	PHYSIOLOGICAL DATA PROCESSING AND ANALYSIS.....	5R01 NS10987-04	102,973
AMASSIAN, VAHE E.....	PHYSIOLOGICAL DATA PROCESSING AND ANALYSIS.....	5R01 NS10987-05	108,130
AMASSIAN, VAHE E.....	INTERRELATIONSHIPS OF SENSORIMOTOR NEURONS.....	5R01 NS11219-04	58,388
ANDERSON, HARRISON C.....	CALCIFYING MATRIX VESICLES OF CARTILAGE AND BONE.....	5R01 AM17836-02	33,970
ANDERSON, HARRISON C.....	CALCIFYING MATRIX VESICLES OF CARTILAGE AND BONE.....	5R01 AM17836-03	36,949
ANDERSON, HARRISON C.....	INDUCED OSSIFICATION: FL & HELA CELLS.....	5R01 CA10052-11	47,890
CARTER, ANNE C.....	COOPERATIVE BREAST CANCER GROUP STUDY.....	3R10 CA03358-18S1	31,365
DAMADIAN, RAYMOND V.....	ALTERED NMR SIGNALS OF WATER IN THE CANCER CELL.....	5R01 CA14988-05	117,220
DAMADIAN, RAYMOND V.....	ALTERED NMR SIGNALS OF WATER IN THE CANCER CELL.....	5R01 CA14988-06	108,407
DAMADIAN, RAYMOND V.....	SELECTIVITY, ION ACTIVITIES AND NMR OF BIOLOGICAL TISSUE.....	5R01 GM21733-02	40,154
DAVID, ANSHEL E.....	SV40 INDUCED HOST DNA REPLICATION.....	5R01 CA17101-02	34,140
DEBONS, ALBERT F.....	HYPOTHALAMIC REGULATION OF FOOD INTAKE.....	2R01 AM12479-09	45,509
DETWILER, THOMAS C.....	REACTIONS OF THROMBIN AND COLLAGEN WITH PLATELETS.....	5R01 HL16355-03	26,637
DETWILER, THOMAS C.....	STIMULUS-RESPONSE COUPLING IN PLATELETS.....	5R01 HL17729-02	66,293
DREIZEN, PAUL.....	PHYSICAL CHEMISTRY OF CONTRACTILE PROTEINS.....	5R01 AM06165-11	54,186
DREIZEN, PAUL.....	PHYSICAL CHEMISTRY OF CONTRACTILE PROTEINS.....	5R01 AM06165-12	59,452
DREIZEN, PAUL.....	STRUCTURE AND FUNCTION OF CARDIAC MYOSIN.....	3R01 HL16596-01S1	2,572
DREIZEN, PAUL.....	STRUCTURE AND FUNCTION OF CARDIAC MYOSIN.....	5R01 HL16596-02	37,932
EISENSTEIN, ALBERT B.....	DIETARY EFFECTS ON CARBOHYDRATE METABOLISM.....	1R01 AM19825-01	47,645
FEINMAN, RICHARD D.....	MECHANISM OF THROMBIN ACTION.....	5R01 HL14992-05	29,960
FELDMAN, JOSEPH G.....	RISK FACTORS IN HEAD AND NECK CANCER.....	1R01 CA18073-01	24,096
FRIEDMAN, ELI A.....	TRANSPLANTATION & IMMUNOGENICITY OF ISLET OF LANGERHANS.....	5R01 AM17899-02	44,357
FRIEDMAN, ELI A.....	TRANSPLANTATION & IMMUNOGENICITY OF ISLET OF LANGERHANS.....	5R01 AM17899-03	46,757
FRIEDMAN, STANLEY.....	THE RELATIONSHIP BETWEEN tRNA MODIFICATION & CELL GROWTH.....	5R01 CA16936-03	27,593
FURCHGOTT, ROBERT F.....	LOCAL FACTORS INFLUENCING RESPONSES TO ADRENERGIC DRUGS.....	5R01 NS10195-17	72,854
GARDNER, BERNARD.....	PRIMARY BREAST CANCER THERAPY GROUP.....	5R10 CA12033-05	33,475
GARDNER, BERNARD.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17982-02	106,260
GERBER, DONALD A.....	METABOLIC ABNORMALITIES IN RHEUMATOID ARTHRITIS.....	5R01 AM10370-11	72,600
HALPERN, MIMI N.....	FUNCTIONAL STUDIES OF THE VOMERONASAL SYSTEM.....	5R01 NS11713-03	22,151
HALPERN, MIMI N.....	ANATOMICAL SUBSTRATES FOR VOMERONASAL FUNCTIONS.....	5R01 NS12152-02	33,406
HOWE, MICHAEL L.....	SUBPOPULATIONS OF THYMUS-DEPENDENT LYMPHOCYTES.....	5R01 AI10158-05	89,968
HOWE, MICHAEL L.....	SUBPOPULATIONS OF THYMUS-DEPENDENT LYMPHOCYTES.....	5R01 AI10158-06	96,792
JONES, CYRIL J.....	SUPPORT FOR CENTER FOR SICKLE CELL ANEMIA.....	5P60 HL15170-05	608,907
KAO, CHIEN-YUAN.....	BIOELECTRIC PROPERTIES OF UTERINE MUSCLE.....	3R01 HD00378-17S1	12,240
KAUFFMAN, SHIRLEY L.....	PULMONARY CARCINOGENESIS IN FETAL AND NEONATAL LUNG.....	5R01 CA14874-03	32,952



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
KAUFFMAN, SHIRLEY L.....	LUNG PRENEOPLASTIC HYPERPLASIA AND CHEMICAL CARCINOGENS.....	5R01 CA17569-02	38,292
KAVALER, FREDERIC.....	DEPOLARIZATION-CONTRACTION-RELATIONSHIP-HEART MUSCLE.....	5R01 HL12774-07	47,259
KOIZUMI, KIYOMI.....	MECHANISM OF FUNCTION OF INTEGRATIVE CENTERS.....	5R01 NS00847-21	32,159
KOUNTZ, SAMUEL L.....	IN VITRO MIXED ORGAN CELL LYMPHOCYTE REACTIONS IN RATS.....	1R01 HL12824-01	55,154
KOUNTZ, SAMUEL L.....	COMBINATION IMMUNOSUPPRESSION IN KIDNEY TRANSPLANTS.....	5R01 AM17001-03	101,384
LASTER, LEONARD.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	2W01 RR00318-10	564,566
LASTER, LEONARD.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RM05401-15	219,195
LEE, KWANG S.....	EXCITATION-CONTRACTION COUPLING AND HEART FAILURE.....	5R01 HL16706-02	54,485
LEE, KWANG S.....	EXCITATION-CONTRACTION COUPLING AND HEART FAILURE.....	5R01 HL16706-03	68,423
LENER, LEON M.....	ANALOGS OF DECOYININE AS POTENTIAL ANTITUMOR AGENTS.....	2R01 CA13802-04A1	46,159
LEVERE, RICHARD D.....	CONTROL MECHANISMS IN HEME SYNTHESIS.....	5R01 AM09838-11	64,233
LYONS, HAROLD A.....	EVALUATION OF STEROID THERAPY IN SARCOIDOSIS.....	5R01 HL16651-03	103,913
MALIK, MAZHAR N.....	ALLOSTERIC FUNCTION OF PLATELET CONTRACTILE PROTEINS.....	1R01 HL18511-01	49,391
MARGOLIS, RENEE K.....	STUDIES ON GLYCOPROTEINS IN BRAIN.....	5R01 NS09348-06	41,488
MARSH, WALTON H.....	PANCREAS REGENERATION AND DIFFERENTIATION.....	5R01 AM05556-15	50,933
MARSH, WALTON H.....	PANCREAS REGENERATION AND DIFFERENTIATION.....	5R01 AM05556-16	51,195
MORSE, STEPHEN I.....	BIOLOGICAL ACTIVITIES OF B. PERTUSSIS.....	2R01 AM09683-07	127,446
MOSESSON, MICHAEL W.....	STUDIES ON MECHANISMS OF HEMOSTASIS.....	5P01 HL17419-02	215,806
NEIMARK, HAROLD C.....	CHARACTERIZATION OF MYCOPLASMAS AND BACTERIAL L FORMS.....	5R01 AM06871-11	27,948
PARSA, ISMAIL.....	AN IN VITRO MODEL OF CARCINOGENESIS OF PANCREAS.....	5R01 CA15233-03	39,390
PORTEOUS, DONALD D.....	TUMOR CELL KILLING BY X-RAYS AND IMMUNITY.....	2R01 CA14117-04	37,207
QUIGLEY, JAMES P.....	EFFECT OF PROTEOLYSIS ON TRANSFORMED CELL MEMBRANES.....	5R01 CA16740-02	37,057
RANCK, JAMES B, JR.....	LIMBIC NEURONE STUDIES.....	1R01 NS12664-01	60,055
RANCK, JAMES B, JR.....	LIMBIC NEURONE STUDIES.....	5R01 NS12664-02	40,562
RIEDER, RONALD F.....	PROTEIN SYNTHESIS IN ERYTHROID PRECURSORS.....	2R01 AM12401-10	66,049
SAWYER, PHILIP N.....	EFFECTS OF ORAL CONTRACEPTIVES ON THE VASCULAR SYSTEM.....	3R01 HL15123-03S1	2,487
SCALIA, FRANK.....	ANATOMICAL CORRELATES OF SUBCORTICAL VISUAL FUNCTION.....	5R01 EY00909-05	23,501
SHERMAN, BURTON S.....	HYPERVITAMINOSIS A AND ALTERED DENTOFACIAL DEVELOPMENT.....	5R01 DE02933-08	20,687
SILVERSTEIN, EMANUEL.....	ENZYME MECHANISM AND CONTROL.....	5R01 GM18453-03	57,735
SILVERSTEIN, EMANUEL.....	CHEMICAL DIAGNOSIS OF PULMONARY EMBOLISM.....	5R01 HL12599-07	56,379
SILVERSTEIN, EMANUEL.....	CHEMICAL DIAGNOSIS OF PULMONARY EMBOLISM.....	5R01 HL12599-08	58,903
STRACHER, ALFRED.....	STUDIES ON THE STRUCTURE OF MYOSIN.....	5R01 GM19626-02	28,213
STRACHER, ALFRED.....	STUDIES ON THE STRUCTURE OF MYOSIN.....	5R01 GM19626-03	29,987
STRACHER, ALFRED.....	CHARACTERIZATION OF MYOSIN FROM BLOOD PLATELETS.....	5R01 HL14020-05	57,290
STUCKEY, JACKSON H.....	SURGICAL APPROACH TO ACUTE CORONARY THROMBOSIS.....	5R01 HL07028-14	110,572
SULTZER, BARNET.....	MITOGENIC ACTIVITY OF PPD-TUBERCULIN.....	5R22 AI11807-02	42,794
VASSALLE, MARIO.....	DIGITALIS EFFECTS ON CARDIAC AUTOMATICITY MECHANISMS.....	5R01 HL17451-02	35,297
VASSALLE, MARIO.....	DIGITALIS EFFECTS ON CARDIAC AUTOMATICITY MECHANISMS.....	5R01 HL17451-03	36,763
WOODRUFF, JUDITH J.....	IMMUNOLOGY AND PHYSIOLOGY OF RECIRCULATING LYMPHOCYTES.....	5R01 AI10080-06	68,654
WOODRUFF, JUDITH J.....	IMMUNOLOGY AND PHYSIOLOGY OF RECIRCULATING LYMPHOCYTES.....	5R01 AI10080-07	73,265
ORGANIZATION TOTAL	76	5,420,425	
<b>TEACHERS COLLEGE ZIP CODE 10027</b>			
BLACKMAN, LEONARD S.....	INPUT STRUCTURE & RETARDATE PERFORMANCE.....	3P01 HD07329-03S1	17,418
BLACKMAN, LEONARD S.....	COGNITIVE STRATEGIES IN THE MENTALLY RETARDED.....	2P01 HD07329-04	380,441
ORGANIZATION TOTAL	2	397,859	
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL ZIP CODE 10304</b>			
DAMATO, ANTHONY N.....	ELECTROPHYSIOLOGICAL STUDIES IN HUMAN AND ANIMAL HEARTS.....	2R01 HL12536-06	31,706
KACHADORIAN, WILLIAM A.....	MEMBRANE STRUCTURE AND FUNCTION OF THE TOAD BLADDER.....	1R01 AM18710-01	27,132
ORGANIZATION TOTAL	2	58,838	
<b>UNITED ENGINEERING TRUSTEES ZIP CODE 10017</b>			
MULLANEY, PAUL F.....	FIFTH ENGINEERING CONFERENCE ON AUTOMATED CYTOLOGY.....	1R13 GM23354-01	14,825
ORGANIZATION TOTAL	1	14,825	
<b>VETERANS ADMINISTRATION HOSPITAL (BROOKLYN) ZIP CODE 11209</b>			
MEYER, LEO M.....	SOUTHEASTERN CANCER STUDY GROUP.....	3R10 CA14299-02S3	6,930
ORGANIZATION TOTAL	1	6,930	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>YESHIVA UNIVERSITY</b>	<b>ZIP CODE 10033</b>		
ADAMANY, ANTHONY M.....	SMOOTH MUSCLE CELL MEMBRANE GLYCOPROTEIN BIOSYNTHESIS.....	1R01 HL19011-01	42,938
AISEN, PHILIP.....	IRON-BINDING PROTEINS AND CONTROL OF IRON METABOLISM.....	3R01 AM15056-05S1	9,632
AISEN, PHILIP.....	IRON-BINDING PROTEINS AND CONTROL OF IRON METABOLISM.....	5R01 AM15056-06	122,968
AINSFELD, MOSHE.....	PSYCHOLINGUISTIC STATUS OF SIGN LANGUAGE.....	5R01 NS12415-02	35,942
ARIAS, IRWIN M.....	THE MECHANISM OF BILE PIGMENT EXCRETION.....	5R01 AM02019-19	123,363
ARIAS, IRWIN M.....	UREMIA: PATHOGENESIS, EFFECTS, AND POSSIBLE PREVENTION.....	5P01 AM16281-05	180,836
ARIAS, IRWIN M.....	HEPATITIS CIRRHOSIS CENTER.....	5P20 AM17702-03	267,619
ATKINSON, PAUL H.....	SURFACE MEMBRANES IN NORMAL AND CANCER CELLS.....	2R01 CA13402-04A1	72,584
BAEZ, SILVIO.....	BIOGENIC-MECHANICAL FACTORS IN MICROCIRCULATION.....	2R01 HL06736-16	95,521
BARNETT, HENRY L.....	PEDIATRIC NEPHROLOGY: DRUG TRIALS AND CLINICAL SURVEYS.....	5R01 AM18234-02	319,685
BASES, ROBERT E.....	MUTAGEN INDUCED ANTINUCLEOSIDE IMMUNOREACTIVITY.....	1R01 CA20879-01	149,571
BAUM, STEPHEN G.....	INTERACTION OF ONCOGENIC AND NONONCOGENIC VIRUSES.....	5R01 CA10945-08	78,116
BENNETT, MICHAEL V.....	FUNCTION OF ELECTRICAL COUPLING IN EMBRYONIC TISSUES.....	5R01 HD04248-08	81,254
BENNETT, MICHAEL V.....	SYNAPTIC TRANSMISSION IN THE CNS.....	1R01 NS12627-01	53,136
BIRSSTEIN, BARBARA K.....	CELLULAR AND STRUCTURAL STUDIES OF MYELOMA MUTANTS.....	1R01 AI13509-01	53,227
BLAUFIX, MORTON D.....	IMPROVED RADIOPHARMACEUTICALS FOR RENAL STUDIES.....	5R01 GM21217-02	62,979
BLOCH, ERIC.....	ANDROGEN PRODUCTION AND FUNCTION DURING DEVELOPMENT.....	2R01 HD00420-16	95,032
BLOOM, BARRY R.....	THE BIOCHEMICAL BASIS OF DELAYED HYPERSENSITIVITY.....	5R01 AI07118-11	67,214
BLOOM, BARRY R.....	THE CELLULAR BASIS OF DELAYED-TYPE HYPERSENSITIVITY.....	5R01 AI09807-07	84,761
BLUMENFELD, OLGA O.....	PROTEINS OF THE CELL MEMBRANE.....	5R01 GM16389-08	53,137
BOOKCHIN, ROBERT M.....	STUDIES OF SICKLING MECHANISMS AND MINOR HEMOGLOBINS.....	5R01 AM12597-08	93,796
BOOKCHIN, ROBERT M.....	STUDIES OF SICKLING MECHANISMS & HEMOGLOBIN INTERACTIONS.....	2R01 AM12597-09	104,663
BORNSTEIN, MURRAY B.....	BIOLOGY OF MYELINATED CNS IN TISSUE CULTURE.....	5R01 NS06735-10	71,955
BORNSTEIN, MURRAY B.....	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS.....	3P50 NS11920-01S2	8,700
BORNSTEIN, MURRAY B.....	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS.....	5P01 NS11920-02	677,239
BOROWITZ, IRVING J.....	THE DESIGN OF ION SELECTIVE MOLECULES.....	5R01 HL16746-03	84,936
BREWER, CURTIS F.....	NMR STUDIES OF SACCHARIDE BINDING TO CONCAVALIN A.....	5R01 CA16054-02	17,473
BRIEHL, ROBIN W.....	STRUCTURE AND OXYGEN-COMBINING FUNCTION OF HEMOGLOBIN.....	3R01 HL07451-13S1	41,272
BRIEHL, ROBIN W.....	HEMOGLOBIN S GELATION AND HEMOGLOBIN ALLOSTERY.....	2R01 HL07451-14	155,296
BUCKLEY, NANCY M.....	NEONATAL DEVELOPMENT OF ADRENERGIC RECEPTOR MECHANISMS.....	2R01 HL15444-04	49,644
COHEN, MORTON I.....	NEURAL BASIS OF RESPIRATORY AND SYMPATHETIC ACTIVITY.....	9R01 HL20800-15	157,464
COHEN, MORTON I.....	NEURAL BASIS OF RESPIRATORY AND VASOMOTOR ACTIVITY.....	5R01 NS03970-14	130,567
CRAIN, STANLEY M.....	BIOPHYSICAL CYTOLOGY OF CULTURED NEURAL TISSUES.....	5R01 NS06545-11	106,053
CRAIN, STANLEY M.....	BIOPHYSICAL CYTOLOGY OF CULTURED NEURAL TISSUES.....	5R01 NS06545-12	110,047
CRAIN, STANLEY M.....	DEVELOPMENT OF SPECIFIC SYNAPTIC NETWORKS IN VITRO.....	1R01 NS12405-01A1	67,866
DURAN-REYNALS, MARIA L.....	POSSIBLE NEOPLASTIC EFFECTS OF NON-NEOPLASTIC VIRUSES.....	5R01 CA07160-12	114,534
EAGLE, HARRY.....	CANCER RESEARCH PROGRAM.....	2P01 CA13330-05	1,643,863
EDELMANN, CHESTER M, JR.....	KIDNEY FUNCTION IN INFANTS AND CHILDREN.....	5P01 AM14877-16	240,545
EDELMANN, CHESTER M, JR.....	KIDNEY FUNCTION IN INFANTS AND CHILDREN.....	5P01 AM14877-17	258,819
EDER, HOWARD A.....	METABOLISM OF PLASMA LIPOPROTEINS.....	5R01 HL02965-20	184,068
EISENSTADT, MAURICE.....	DIELECTRIC AND NMR STUDIES OF PROTEINS.....	5R01 GM18298-05	72,277
EISENSTADT, MAURICE.....	STUDY OF MEMBRANE PERMEABILITY BY NMR RELAXATION.....	5R01 HL17571-02	98,297
FLEISCHER, NORMAN S.....	STUDIES OF PITUITARY HORMONE SECRETION AND SYNTHESIS.....	5R01 AM17326-04	51,282
FRIEDMAN, EPHRAIM.....	BIOTECHNOLOGY RESOURCE FOR NMR STUDIES OF BIOMOLECULES.....	3P41 RR00636-03S1	9,500
FRIEDMAN, EPHRAIM.....	BIOTECHNOLOGY RESOURCE FOR NMR STUDIES OF BIOMOLECULES.....	5P41 RR00636-04	63,611
FRIEDMAN, EPHRAIM.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05397-15	261,305
FROSOLONO, MICHAEL F.....	METABOLISM AND CELL BIOLOGY OF LUNG SURFACTANT SYSTEM.....	1R01 HL19010-01	41,489
GARTNER, LAWRENCE M.....	PATHOGENESIS OF NEONATAL PHYSIOLOGIC JAUNDICE.....	5R01 HD03783-08	158,228
GASKIN, FELICIA.....	BIOPHYSICAL STUDIES ON NEUROTUBULES AND TWISTED TUBULES.....	5R01 NS12418-02	41,033
GOSSEIN, NEMATALLAH A.....	IMMUNOCOMPETENCE IN RADIATION THERAPY PATIENTS.....	3R01 CA13806-03S1	15,640
GOSSEIN, NEMATALLAH A.....	HUMAN TUMOR CELL KINETICS: EFFECT OF TREATMENT.....	5R01 CA14770-03	54,491
GOSSEIN, NEMATALLAH A.....	COLORRECTAL CANCER TREATMENT-POSTOPERATIVE RADIOTHERAPY.....	5R01 CA17251-02	65,402
GLUECKSOHN-WAELSCH, SALOME.....	A WORKSHOP ON THE T-LOCUS.....	1R13 GM23314-01	15,000
GLUECKSOHN-WAELSCH, SALOME.....	MECHANISMS OF GENETIC CONTROL OF ABNORMAL DEVELOPMENT.....	5R01 HD00193-21	79,523
GOLDFISCHER, SIDNEY L.....	STORAGE DISEASE - INTRACELLULAR TRANSPORT AND DIGESTION.....	5R01 NS06856-10	85,390
HAYS, RICHARD M.....	CONTROL OF WATER AND SOLUTE MOVEMENT ACROSS THE CELL.....	2R01 AM03858-16	92,641
HENRY, SUSAN A.....	GENETICS AND DEVELOPMENT OF YEAST MEMBRANE MUTANTS.....	2R01 GM19629-04	48,844
HENRY, SUSAN A.....	GENETICS AND DEVELOPMENT OF YEAST MEMBRANE MUTANTS.....	5R01 GM19629-05	59,402

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
HIGHSTEIN, STEPHEN M.....	SYNAPTIC LINKAGE OF THE RETICULO-OCULOMOTOR CIRCUITS.....	5R01 EY01670-02	8,400
HORWITZ, MARSHALL S.....	ADENOVIRUS DNA SYNTHESIS AND POLYPEPTIDE ASSEMBLY.....	2R01 CA11512-07A1	21,610
HORWITZ, SUSAN B.....	BIOCHEMICAL PHARMACOLOGY OF ANTITUMOR DRUGS.....	5R01 CA15714-02	92,504
HORWITZ, SUSAN B.....	BIOCHEMICAL PHARMACOLOGY OF ANTITUMOR DRUGS.....	5R01 CA15714-03	96,708
HUBALITZ, JERARD.....	STUDIES OF MACROMOLECULAR ALTERATION AND SYNTHESIS.....	2R01 GM13344-11	209,524
IQBAL, KHAJID.....	MOLECULAR PATHOLOGY OF NEUROFILAMENTS AND NEURITUBULES.....	2R01 NS08180-08	80,852
JAFFE, ERNST R.....	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER.....	2M01 RR00050-15	820,269
KAPLAN, BARRY H.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	3R01 CA14958-01A1S1	15,027
KATZMAN, ROBERT.....	NEUROLOGICAL CENTER: METABOLIC/DEGENERATIVE DISORDERS.....	2P50 NS03356-16A1	831,330
KATZMAN, ROBERT.....	BIOGENIC AMINES AND NEUROLOGICAL DISORDERS.....	5P50 NS09649-06	297,855
KEISER, HAROLD D.....	IMMUNOCHEMISTRY OF CARTILAGE PROTEOGLYCAN.....	5R01 AM07343-13	106,867
KERN, HAROLD L.....	RELATION OF TRANSPORT TO METABOLISM OF GLUTATHIONE.....	5R01 EY00131-06	30,376
KERN, HAROLD L.....	TRANSPORT PROCESSES IN OCULAR TISSUES.....	5R01 EY00268-13	92,869
KIKKAWA, YUTAKA.....	ALVEOLAR TYPE II EPITHELIAL CELLS IN HEALTH & DISEASE.....	5R01 HD02459-10	23,208
KLINGER, HAROLD P.....	GENE REGULATION & INTERACTION-NORMAL & MALIGNANT CELLS.....	5R01 CA16720-02	109,488
KLINGER, HAROLD P.....	GENE REGULATION & INTERACTION-NORMAL & MALIGNANT CELLS.....	5R01 CA16720-03	114,735
LAUSON, HENRY D.....	METABOLISM OF ANTIDIURETIC HORMONE.....	5R01 AM01588-20	58,446
LEDEEN, ROBERT W.....	STUDY OF NERVOUS SYSTEM GANGLIOSIDES AND RELATED LIPIDS.....	2R01 NS04834-13	136,556
LEDEEN, ROBERT W.....	STUDY OF NERVOUS SYSTEM GANGLIOSIDES AND RELATED LIPIDS.....	5R01 NS04834-14	138,560
LEDEEN, ROBERT W.....	BRAIN GLYCOLIPIDS IN MS & SLOW VIRUS DISEASES.....	2R01 NS10931-02	42,403
LEV, MEIR.....	BIOSYNTHESIS OF CERAMIDE PHOSPHORYLETHANOLAMINE.....	3R01 GM21278-01A1S1	6,182
LEV, MEIR.....	BIOSYNTHESIS OF CERAMIDE PHOSPHORYLETHANOLAMINE.....	5R01 GM21278-02	35,957
LEVENSON, STANLEY M.....	BURN DEBRIDEMENT: CHEMICAL, ENZYMATIC.....	5R01 GM19328-05	102,525
LEVINE, WALTER G.....	ROLE OF METABOLISM IN THE BILIARY EXCRETION OF DRUGS.....	5R01 CA14231-05	75,995
LEVINE, WALTER G.....	PANCREATIC DISPOSITION OF CHEMICAL CARCINOGENS.....	1R26 CA19155-01	77,788
LITOWSKY, IRVING.....	CONFORMATION OF FERRITIN AND ITS ROLE IN IRON METABOLISM.....	5R01 HL11511-08	70,802
LOWY, BERTRAM A.....	ROLE OF LIVER IN ERYTHROCYTE NUCLEOTIDE SYNTHESIS.....	5R01 AM17622-03	73,133
MAIO, JOSEPH J.....	DNA TRANSCRIPTION CONTROL IN NORMAL AND CANCER CELLS.....	5R01 CA16790-02	83,965
MAITRA, UMADAS.....	ENZYMATIC SYNTHESIS OF BIOLOGICALLY ACTIVE MACROMOLECULE.....	5R01 GM15399-08	53,759
MAKMAN, MAYNARD H.....	ROLE OF ADENYLATE CYCLASE IN MALIGNANT CELLS.....	5R01 CA13176-05	78,792
MAKMAN, MAYNARD H.....	ROLE OF CYCLIC AMP IN LENS MATURATION AND DISEASE.....	5R01 EY00873-03	39,835
MARCUS, DONALD M.....	ANTIBODY INTERACTIONS WITH HAPTENS AND GLYCOLIPIDS.....	5R01 AI05336-13	86,842
MARMUR, JULIUS.....	THE ROLE OF YEAST MITOCHONDRIA AND CANCER.....	2R01 CA12410-06	153,327
MC CONN, RITA.....	BLOOD STORAGE: THE PRODUCTION OF CARDIOTOXIC MATERIAL.....	5R01 HL17479-02	99,844
MC CONN, RITA.....	BLOOD STORAGE: THE PRODUCTION OF CARDIOTOXIC MATERIAL.....	5R01 HL17479-03	108,008
MEYER, KARL.....	MUCOPOLYSACCHARIDES OF CONNECTIVE AND OTHER TISSUES.....	5R01 AG00247-10	123,620
NAGEL, RONALD L.....	STRUCTURE AND FUNCTION OF HEMOGLOBINS A AND S.....	3R01 AM15053-05S1	8,624
NAGEL, RONALD L.....	STRUCTURE AND FUNCTION OF HEMOGLOBINS A AND S.....	5R01 AM15053-06	116,034
NAGLER, ARNOLD L.....	STUDY OF ROLE OF CARDIOTOXIN IN SHOCK.....	5R01 GM17423-06	108,633
NATHENSON, STANLEY G.....	CHEMICAL STUDIES ON HISTOCOMPATIBILITY ANTIGENS.....	5R01 AI07289-11	120,458
NITOWSKY, HAROLD M.....	SUPPORT FOR GENETICS RESEARCH CENTER.....	5P50 GM19100-04	547,306
NORTON, WILLIAM T.....	THE CHEMISTRY OF CELLS AND CELL PORTIONS FROM THE CNS.....	5R01 NS02476-17	137,343
NOVIKOFF, ALEX B.....	BIOCHEMICAL CYTOLOGY OF NORMAL AND MALIGNANT TISSUES.....	5R01 CA06576-14	300,699
PAPPAS, GEORGE D.....	FINE STRUCTURE AND MODIFICATION OF SYNAPSES.....	5R01 NS11431-03	151,395
PARK, SUNG S.....	COMPREHENSIVE STUDIES OF MUCOCILIARY TRANSPORT.....	5R01 HL18308-02	122,263
PATT, CHARLES.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07124-08	20,647
PEISACH, JACK.....	HEME PROTEIN STRUCTURE AND FUNCTION.....	3R01 HL13399-13S1	15,824
PEISACH, JACK.....	HEME PROTEIN STRUCTURE AND FUNCTION.....	5R01 HL13399-14	144,154
PESETSKY, IRWIN.....	THE INFLUENCE OF THYROXIN UPON NEURONS.....	5R01 NS04555-13	47,140
PETERSON, EDITH R.....	NEUROMUSCULAR RELATIONS IN ORGANOTYPIC CULTURES.....	5R01 NS08770-06	61,827
PORTER, KEITH R.....	AN INTERNATIONAL CONGRESS ON CELL BIOLOGY.....	1R13 GM22780-01	25,000
PURPURA, DOMINICK P.....	SUPPORT FOR MENTAL RETARDATION RESEARCH CENTER.....	5P30 HD01799-11	981,269
PURPURA, DOMINICK P.....	SUPPORT FOR MENTAL RETARDATION RESEARCH CENTER.....	5P30 HD01799-12	978,613
PURPURA, DOMINICK P.....	NEURONAL DEVELOPMENT, INTERACTION AND ORGANIZATION.....	5P01 NS07512-08	440,125
PURPURA, DOMINICK P.....	NEURONAL DEVELOPMENT, INTERACTION AND ORGANIZATION.....	5P01 NS07512-09	475,957
RAINE, CEDRIC S.....	EM CYTOPATHOLOGY OF ORGANIZED CNS & PNS CULTURES.....	5R01 NS08952-08	64,391
RICHARDSON, STEPHEN A.....	GROWING UP AS A MENTALLY SUBNORMAL YOUNG PERSON.....	3R01 HD07907-01S1	3,903
RICHARDSON, STEPHEN A.....	GROWING UP AS A MENTALLY SUBNORMAL YOUNG PERSON.....	5R01 HD07907-02	120,191
RIEBER, EDMOND E.....	OCCURRENCE AND RESOLUTION OF SICKLE CELL CRISIS.....	3R01 HL14803-03S1	4,369
ROHEIM, PAUL S.....	HYPERLIPOPROTEINEMIA.....	3R01 HL13394-06S1	17,867



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
ROHEIM, PAUL S.	HYPERLIPOPROTEINEMIA.....	5R01 HL13394-07	100,262
ROSE, SUSAN A.	OVERCOMING THE ADVERSE EFFECTS OF PREMATURITY.....	5R01 HD08063-03	59,699
ROSEN, ORA M.	CYCLIC NUCLEOTIDE SYNTHESIS, DEGRADATION & FUNCTION.....	5R01 AM09038-12	70,693
RUBEN, ROBERT J.	EMBRYOLOGY OF THE INNER EAR.....	5R01 NS08365-09	116,569
RUBIN, CHARLES S.	CYCLIC AMP AND PROTEIN KINASES IN CELL REGULATION.....	1R01 GM22792-01	83,841
RUBIN, MERYL S.	REGULATION OF MEMBRANE PERMEABILITY: MOLECULAR BASIS.....	5R01 AM18128-02	28,946
SAWICKI, LEON	RECURRENT HERPES SIMPLEX EYE DISEASE.....	7R01 EY01918-01	92,844
SCARPELLI, EMILE M.	ALVEOLAR BIOLOGY.....	5P01 HL16137-03	511,587
SCARPELLI, EMILE M.	ALVEOLAR BIOLOGY.....	5P01 HL16137-04	569,334
SCHARFF, MATTHEW D.	SYNTHESIS AND ASSEMBLY OF IMMUNOGLOBULINS.....	5R01 AI05231-12	85,881
SCHARFF, MATTHEW D.	SYNTHESIS AND ASSEMBLY OF IMMUNOGLOBULINS.....	5R01 AI05231-13	88,287
SCHARFF, MATTHEW D.	CELL BIOLOGY OF LYMPHOID CELLS.....	5P01 AI10702-05	575,689
SCHARRER, BERTA V.	BIBLIOGRAPHIA NEUROENDOCRINOLOGICA.....	5R01 LM02327-02	15,509
SCHENBERG, I HERBERT	HEREDITARY DEFECTS IN PROTEIN SYNTHESIS.....	5R01 AI05921-21	257,112
SCHILDKRAUT, CARL L.	DNA OF NORMAL AND MALIGNANT CELLS.....	5R01 GM22332-02	98,584
SCHULMAN, LA DONNE H.	PROTEIN-NUCLEIC ACID INTERACTIONS.....	5R01 GM16995-07	59,797
SCHULMAN, LA DONNE H.	PROTEIN-NUCLEIC ACID INTERACTIONS.....	5R01 GM16995-08	73,167
SEIFTER, SAM	STRUCTURE AND FUNCTION OF AGING HUMAN FIBROBLASTS.....	5P01 AG00374-04	341,992
SEIFTER, SAM	BIOCHEMICAL ASPECTS OF AGING IN VITRO AND IN VIVO.....	2P01 AG00374-05	430,743
SEIFTER, SAM	BIOCHEMICAL AND IMMUNOLOGICAL STUDIES ON ELASTIN.....	5R01 AM11913-09	64,686
SEIFTER, SAM	PROTEIN TURNOVER IN NORMAL AND TRANSFORMED ANIMAL CELLS.....	5R01 CA12712-05	52,784
SEIFTER, SAM	BIOSYNTHESIS OF LYSINONORLEUCINE IN ELASTIN OF AORTAE.....	1R01 HL17975-01A1	45,926
SHAFRITZ, DAVID A.	PROTEIN SYNTHESIS IN NORMAL AND REGENERATING LIVER.....	5R01 AI05231-13	35,741
SHAPIRO, LUCILLE	GENETIC CONTROL OF CELL GROWTH AND DEVELOPMENT.....	5P01 GM11301-14	532,451
SHIN, SEUNG-IL	MOLECULAR GENETICS OF SOMATIC CELL MUTATION.....	5R01 GM21014-02	52,085
SHULMAN, KENNETH	BIOMECHANICS OF ICP IN VASOGENIC EDEMA.....	2R01 NS07871-08A3	89,551
SHULMAN, KENNETH	FLUID RESTRICTION IN ACUTE SUBARACHNOID HEMORRHAGE.....	5R01 NS12500-02	30,988
SKOULTCHI, ARTHUR I.	CONTROL OF DIFFERENTIATION OF ERYTHROLEUKEMIC CELLS.....	5R01 CA16368-03	42,625
SOBEL, EDNA H.	EFFECT OF OVERCROWDING AND MALNUTRITION ON GROWTH.....	3R01 HD05668-04S1	2,033
SOBEL, EDNA H.	EFFECT OF OVERCROWDING AND MALNUTRITION ON GROWTH.....	5R01 HD05668-05	118,767
SOEIRO, RUY	PROCESSING OF RNA IN HUMAN CANCER HELA CELLS.....	5R01 CA10993-08	89,943
SOFFER, RICHARD L.	PULMONARY ANGIOTENSIN-CONVERTING ENZYME.....	5R01 HL17741-02	107,314
SONNENBLICK, EDMUND H.	CARDIOVASCULAR RESEARCH PROGRAM.....	5R01 HL18668-02	107,383
SONNENBLICK, EDMUND H.	MECHANISMS OF HEART FAILURE IN THE MYOPATHIC HAMSTER.....	1R01 HL18824-01	65,764
SONNENBLICK, EDMUND H.	MECHANISMS OF HEART FAILURE IN THE MYOPATHIC HAMSTER.....	5R01 HL18824-02	63,969
SONNENBLICK, EDMUND H.	MYOCARDIAL FUNCTION IN DIABETES MELLITUS.....	1R01 HL20426-01	127,556
SPENCER, PETER S.	CONTROL OF MYELINATION IN PATHOLOGIC STATES.....	1R01 NS13106-01	44,276
SPITZER, ADRIAN	MICROPUNCTURE STUDY OF THE NEONATAL KIDNEY.....	5R01 AM12904-08	61,497
STEEVES, RICHARD A.	HELPER FACTORS FOR FRIEND SPLEEN FOCUS-FORMING VIRUS.....	5R01 CA15429-04	40,801
SUZUKI, KINUKO	EXPERIMENTAL PATHOLOGY OF DEVELOPING NERVOUS SYSTEM.....	5R01 NS10803-05	60,380
SUZUKI, KUNIHICO	CHEMICAL PATHOLOGY OF NEUROLOGICAL DISORDERS.....	5R01 NS10885-04	150,206
SUZUKI, KUNIHICO	CHEMICAL PATHOLOGY OF NEUROLOGICAL DISORDERS.....	5R01 NS10885-05	160,625
TERRY, ROBERT D.	CYTOLOGIC STUDIES IN DISEASES OF THE NERVOUS SYSTEM.....	5R01 NS02255-18	183,722
VOLK, HERBERT	COOPERATIVE BREAST CANCER GROUP.....	3R10 CA03359-18S1	27,240
VOLK, HERBERT	PRIMARY BREAST CANCER THERAPY GROUP (NSABP).....	5R10 CA12040-05	55,305
VOLK, HERBERT	CLINICAL CANCER EDUCATION PROGRAM (MEDICAL).....	5R25 CA18009-02	135,924
WILLIAMS, M HENRY, JR.	REVERSIBILITY OF CHRONIC LUNG DISEASE.....	1R01 HL18434-01	40,264
WILLIAMS, M HENRY, JR.	REVERSIBILITY OF CHRONIC LUNG DISEASE.....	5R01 HL18434-02	46,764
WITTENBERG, BEATRICE A.	MYOGLOBIN AND OXYGEN SUPPLY TO HEART AND MUSCLE CELLS.....	1R01 HL19299-01	29,885
WITTNER, MURRAY	TRYPANOSOMA CRUZI; MECHANISMS OF IMMUNE RESISTANCE.....	5R01 AI12770-02	58,645
WOLINSKY, HARVEY	STRUCTURE-FUNCTION RELATIONS OF BLOOD VESSELS.....	2R01 HL12766-07	100,702
WU, CHENG-WEN	MECHANISM AND REGULATION OF GENE TRANSCRIPTION.....	5R01 GM19062-05	95,278
YELLIN, EDWARD L.	DYNAMIC DETERMINANTS OF LEFT VENTRICULAR FILLING.....	1R01 HL19391-01	51,791
ORGANIZATION TOTAL	171	23,927,170	

## NORTHPORT

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ZUCKER, STANLEY.....	PATHOGENESIS OF ANEMIA IN MALIGNANCY.....	5R01 CA15629-03	25,435
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**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
ORGANIZATION TOTAL	1	25,435	
<b>ONEONTA</b>			
STATE UNIVERSITY OF NEW YORK—COLLEGE AT ONEONTA		ZIP CODE 13820	
CHIANG, JOSEPH F.....	MOLECULAR STRUCTURE OF BIOLOGICAL INTEREST COMPOUNDS.....	2R01 CA11537-06	16,236
CHIANG, JOSEPH F.....	MOLECULAR STRUCTURE OF BIOLOGICAL INTEREST COMPOUNDS.....	5R01 CA11537-07	17,265
ORGANIZATION TOTAL	2	33,501	
<b>ORANGEBURG</b>			
NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE—ROCKLAND PSYCHIATRIC CENTER		ZIP CODE 10962	
KLINE, NATHAN S.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05651-10	39,427
ORGANIZATION TOTAL	1	39,427	
<b>PLATTSBURGH</b>			
STATE UNIVERSITY OF NEW YORK—COLLEGE AT PLATTSBURGH		ZIP CODE 12901	
ELLSWORTH, ROBERT R.....	STUDIES ON CHLOROPHYLLASE.....	5R01 GM20328-02	27,685
GRAZIADEI, WILLIAM D.....	INTERFERON: POST-TRANSCRIPTIONAL MECHANISM.....	1R01 AI13168-01	33,708
HEINTZ, ROGER L.....	PEPTIDE BOND FORMATION AND HEMOGLOBIN SYNTHESIS.....	7R01 HL19167-01	36,887
MOORE, RICHARD D.....	MECHANISM OF INSULIN ACTION UPON SODIUM PUMP.....	5R01 AM17531-02	32,778
ORGANIZATION TOTAL	4	131,058	
<b>POTSDAM</b>			
CLARKSON COLLEGE OF TECHNOLOGY		ZIP CODE 13676	
JELLINEK, HANS H.....	PERMEATION MECHANISM OF GASES FROM THE LUNG.....	5R01 HL15726-03	43,923
SILMAN, OLAV.....	LIFE-SUSTAINING SUBSTANCES: COPPER AND ZINC PROTEINS.....	1R01 GM23072-01	33,655
VASKA, LAURI.....	OXYGEN-CARRYING METAL COMPLEXES.....	5R01 HL09678-11	81,340
VASKA, LAURI.....	OXYGEN-CARRYING METAL COMPLEXES.....	5R01 HL09678-12	81,040
WILCOX, WILLIAM R.....	STUDIES ON SODIUM URATE NUCLEATION.....	7R01 AM18914-01	51,585
WILCOX, WILLIAM R.....	STUDIES ON SODIUM URATE NUCLEATION.....	5R01 AM18914-02	38,552
ORGANIZATION TOTAL	6	330,095	
<b>POUGHKEEPSIE</b>			
VASSAR COLLEGE		ZIP CODE 12601	
JOHNSON, PATRICIA R.....	GROWTH OF ZUCKER RAT PREADIPOCYTES AND FETAL HEPATOCYTES.....	1R01 AM19382-01	38,030
ORGANIZATION TOTAL	1	38,030	
<b>PURCHASE</b>			
STATE UNIVERSITY OF NEW YORK—COLLEGE AT PURCHASE		ZIP CODE 10577	
WOLF, GEORGE.....	NEURAL MECHANISMS OF A MODEL DRIVE SYSTEM.....	1R01 NS12514-01	31,383
ORGANIZATION TOTAL	1	31,383	
<b>ROCHESTER</b>			
EASTMAN DENTAL CENTER		ZIP CODE 14605	
CURZON, MARTIN E.....	STRONTIUM AND DENTAL CARIES.....	2R01 DE04330-02	69,916
GILMOUR, MARION N.....	THE MICROBIAL COMPOSITION OF DENTAL PLAQUE.....	2R01 DE03378-06	109,619
HANDELMAN, STANLEY L.....	EFFECT OF FISSURE SEALANT ON PROGRESS OF DENTAL CARIES.....	5R01 DE03713-03	54,619
LITTLE, MARGUERITE F.....	TRACE ELEMENT INFLUENCE ON CARIES IN VITRO.....	1R01 DE04431-01	47,508
MC HUGH, WILLIAM D.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05548-14	40,832
ZANDER, HELMUT A.....	BASIC STUDIES BEARING ON PERIODONTAL DISEASE.....	5P01 DE01648-14	171,703
ORGANIZATION TOTAL	6	494,197	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>ROCHESTER INSTITUTE OF TECHNOLOGY      ZIP CODE 14623</b>			
JELINEK, WARREN R.....	IN VITRO SYNTHESIS OF CELL AND VIRAL MESSENGER RNA.....	5R01 AI12564-02	63,346
ORGANIZATION TOTAL	1	63,346	
<b>UNIVERSITY OF ROCHESTER      ZIP CODE 14627</b>			
ADER, ROBERT.....	BEHAVIORALLY CONDITIONED IMMUNOSUPPRESSION.....	1R01 HD09977-01	56,680
ALLEN, PETER Z.....	IMMUNOCHEMISTRY OF N. GONORRHOEA ALPHA ANTIGENS.....	5R01 AI12356-02	36,396
AUER, HENRY E.....	CYTOCHROME OXIDASE-CYTOCHROME C INTERACTIONS.....	5R01 GM21687-02	20,561
BAKEMEIER, RICHARD F.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA17988-02	167,224
BALDUZZI, PIERO C.....	GENETIC STUDIES OF RNA TUMOR VIRUSES.....	5R01 CA15716-03	44,334
BALE, WILLIAM F.....	PREPARATION OF 125I-ANTIBODY LOCALIZING IN TUMORS.....	5R01 CA16749-02	72,263
BANERJEE, SHAILESH P.....	CARDIAC GLYCOSIDES AND DIURETICS: ROLE OF NA0 PUMP.....	5R01 HL18185-02	63,873
BAUM, JOHN.....	IMMUNOLOGICAL STUDIES IN AN AGING POPULATION.....	5R01 AG00465-03	48,788
BENNETT, JOHN M.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA11083-08S1	3,342
BENNETT, JOHN M.....	COOPERATIVE STUDY OF ONCOLOGY.....	5R10 CA11083-09	323,166
BERNHARD, WILLIAM A.....	THE EFFECTS OF IONIZING RADIATION ON NUCLEIC ACIDS.....	5R01 GM20688-02	50,169
BOSMANN, HAROLD B.....	ASPECTS OF DENERVATED MUSCLE.....	5R01 NS12461-02	40,320
BROWN, JOHN L.....	VISION: SPATIAL, TEMPORAL AND ADAPTING EFFECTS.....	3R01 EY00680-04S1	10,795
BROWN, JOHN L.....	VISION: SPATIAL, TEMPORAL AND ADAPTING EFFECTS.....	2R01 EY00680-05	58,835
BROWN, JOHN L.....	VISUAL SCIENCE RESEARCH CENTER SUPPORT.....	5P30 EY01319-03	53,600
CAFFERATA, ROBERT L.....	THE EXPRESSION OF NEURONAL SPECIFICITY.....	5R01 EY01529-02	49,473
CARSTENSEN, EDWIN L.....	INTERACTION OF ULTRASOUND WITH BIOLOGICAL MATERIAL.....	5R01 GM09933-14	83,612
CHAPMAN, ROBERT M.....	VISUAL MECHANISMS FOR WAVE LENGTH DISCRIMINATION.....	5R01 EY01593-02	52,668
CHEY, WILLIAM Y.....	RADIOIMMUNOASSAY OF SECRETIN AND GASTRIN.....	5R01 AM16939-03	28,436
CHING, MELVIN CHUNG HING.....	REGULATION OF GROWTH AND GROWTH HORMONE.....	5R01 AM16557-03	36,549
CLARKSON, THOMAS W.....	TRACE CONTAMINANTS: ENVIRONMENTAL HEALTH HAZARDS TO MAN.....	3P30 ES01247-01S1	295,013
CLARKSON, THOMAS W.....	TRACE CONTAMINANTS: ENVIRONMENTAL HEALTH HAZARDS TO MAN.....	5P30 ES01247-02	948,849
CLARKSON, THOMAS W.....	HEAVY METALS AS ENVIRONMENTAL HAZARDS TO MAN.....	1P01 ES01248-01	486,307
CLARKSON, THOMAS W.....	CENTER FOR TOXICOLOGIC RESEARCH AND TRAINING.....	5P50 GM15190-10	457,194
COHEN, GERALD H.....	PUPIL RESPONSE AS AN INDEX FOR CHROMATIC MECHANISMS.....	5R01 EY01234-02	41,580
COHEN, JULES.....	HEMOGLOBIN FUNCTION AND TISSUE OXYGENATION.....	1R01 HL18328-01	53,396
COHEN, JULES.....	HEMOGLOBIN FUNCTION AND TISSUE OXYGENATION.....	5R01 HL18328-02	54,487
COHEN, JULIUS J.....	RENAL SUBSTRATE UTILIZATION IN RELATION TO FUNCTION.....	5R01 AM03602-17	71,422
COHEN, JULIUS J.....	RENAL SUBSTRATE UTILIZATION IN RELATION TO FUNCTION.....	5R01 AM03602-18	71,413
COHEN, NICHOLAS.....	COMPARATIVE AND DEVELOPMENTAL IMMUNOLOGY.....	5R01 HD07901-08	43,854
COHEN, NICHOLAS.....	COMPARATIVE AND DEVELOPMENTAL IMMUNOLOGY.....	5R01 HD07901-09	47,729
COLEMAN, JAMES R.....	ELECTRON PROBE INVESTIGATION OF CELL CALCIUM.....	5R01 AM14272-07	49,180
COLEMAN, PAUL D.....	GENETIC AND POSTNATAL EFFECTS ON BRAIN DEVELOPMENT.....	5R01 NS07870-09	54,269
COLGAN, FRANK J.....	LUNG VOLUME AND BREATHING MECHANICS DURING ANESTHESIA.....	5R01 HL09609-11	17,719
COOPER, ROBERT A, JR.....	SUPPORT FOR CANCER RESEARCH CENTER.....	5P30 CA11198-08	1,387,801
CORWIN, THOMAS B.....	SURROUND FIELDS AND TEMPORAL BRIGHTNESS ENHANCEMENT.....	7R01 EY01986-01	37,595
DAHNEKE, BARTON E.....	SIZE/CHEMICAL MEASUREMENTS OF ATMOSPHERIC PARTICLES.....	5R01 ES01107-02	96,800
DAVIDSON, PHILIP W.....	REHABILITATION OF HAPTIC PERCEPTION IN THE BLIND.....	1R01 EY01790-01	33,098
DOTY, ROBERT W.....	LEARNING, PERCEPTION, AND NEURAL INTEGRATION.....	2R01 NS03606-15	118,669
EMERSON, ROBERT C.....	IMAGE MOVEMENT: NEURAL PROCESSING MECHANISMS.....	5R01 EY01440-02	39,693
EMERSON, ROBERT C.....	IMAGE MOVEMENT: NEURAL PROCESSING MECHANISMS.....	5R01 EY01440-03	44,325
FISCHER, HARRY W.....	RADIOGRAPHIC VISUALIZATION OF LIVER AND SPLEEN.....	5R01 GM20885-03	33,325
FISCHER, HARRY W.....	IMPROVED DETECTION AND VISUALIZATION OF COLON LESIONS.....	5R01 GM21296-02	24,326
FISCHER, HARRY W.....	MULTIPLE FACTORS IN SEVERE REACTIONS IN UROGRAPHY.....	1R01 GM22917-01	33,640
FRANCE, ROBERT R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07069-11	94,512
GOM, KONG-OO.....	CELL-MEDIATED IMMUNOLOGICAL DEFECTS AFTER IRRADIATION.....	2R01 CA14876-04	68,255
GOROVSKY, MARTIN A.....	REPEATED GENES: AMPLIFICATION, EVOLUTION AND FUNCTION.....	5R01 GM21793-02	82,616
GRAMIAK, RAYMOND.....	NEW CONCEPTS IN CARDIAC ULTRASOUND TECHNOLOGY.....	2R01 HL15016-04	96,016
GRAMIAK, RAYMOND.....	NEW CONCEPTS IN CARDIAC ULTRASOUND TECHNOLOGY.....	5R01 HL15016-05	85,931
GRAMIAK, RAYMOND.....	DEVELOPMENT OF CLINICAL ULTRASOUND CINE CARDIOGRAPHY.....	5R01 HL16260-02	89,824
GROSS, PAUL R.....	HISTONE MRNA AND HISTONE SYNTHESIS IN DEVELOPMENT.....	5R01 HD08652-03	68,610
GROTA, LEE J.....	EFFECTS OF STIMULATION ON HORMONES & CNS DEVELOPMENT.....	3R01 HD08362-01S1	16,816
GROTA, LEE J.....	EFFECT OF STIMULATION ON HORMONES & CNS DEVELOPMENT.....	5R01 HD08362-02	75,162
HARE, JOHN D.....	CELL PROLIFERATION AND VIRUS INFECTION.....	5R01 CA07239-13	61,640

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
HATTMAN, STANLEY M.	DNA MODIFICATION/RESTRICTION IN PRO- AND EUKARYOTES	5R01 AI10864-05	51,953
HENSHAW, EDGAR C.	INTERMEDIARY METABOLISM IN ANIMALS AND MAN	7R01 CA21663-01	81,555
HILF, RUSSELL	BIOCHEMICAL BASIS OF HORMONE RESPONSIVENESS IN BREAST	5R01 CA12836-05	78,444
HILF, RUSSELL	MECHANISMS OF ACTION OF INSULIN ON MAMMARY TUMORS	5R01 CA16660-02	91,934
HINKLE, DAVID C.	BACTERIOPHAGE T7 DNA REPLICATION IN VITRO	5R01 GM21782-02	46,075
HONIG, CARL R.	CONTROLS OF CARDIAC AND VASCULAR SMOOTH MUSCLES	5R01 HL03290-19	65,006
HONIG, CARL R.	CONTROLS OF CARDIAC AND VASCULAR SMOOTH MUSCLES	5R01 HL03290-20	96,126
HOROWICZ, PAUL	CONTROL OF ACTIVITY IN EXCITABLE TISSUES	5P01 NS10981-04	228,017
ISON, JAMES R.	FACILITATION AND INHIBITION OF REFLEX BEHAVIOR	5R01 NS12443-02	45,667
IZZO, JOSEPH L.	EXPERIMENTAL STUDIES—INSULIN, GLUCAGON, PROINSULIN	5R01 AM03556-16	68,926
KAPPLER, JOHN W.	REGULATORY MECHANISMS IN THE IMMUNE RESPONSE	5R01 AI11558-03	36,010
KEILSON, JULIAN	A MULTI-COMPONENT CIRCULATORY METABOLISM MODEL	1R01 HL20363-01	25,740
KELLOGG, CAROL	DEVELOPMENT OF BRAIN MONOAMINES AND SEIZURES	3R01 NS10777-03S1	3,640
KENDE, ANDREW S.	PHOTOCHEMICALLY-DIRECTED SYNTHESIS OF ANTINEOPLASTICS	1R01 CA11326-08	69,101
KENDE, ANDREW S.	TWISTED BIARYL ANTITUMOR AGENTS	1R01 CA18846-01	84,290
KIMBERG, DANIEL V.	EFFECT OF HORMONES ON CALCIUM ABSORPTION	5R01 AM18912-02	128,287
KIMMICH, GEORGE A.	MECHANISM OF SODIUM-DEPENDENT METABOLITE TRANSPORT	5R01 AM15365-05	36,456
KIMMICH, GEORGE A.	MECHANISM OF SODIUM-DEPENDENT METABOLITE TRANSPORT	5R01 AM15365-06	41,020
KIRKPATRICK, FRANCIS H, JR.	SPECTRIN, ACTIN, LIPID AND RED CELL MEMBRANE STRUCTURE	1R01 HL18551-01	31,181
KLEMPERER, MARTIN R.	CRIOATIVE STUDY OF CHILDREN'S CANCER	2R01 CA11174-07A1	24,974
KNIGGE, KARL M.	BASIC AND CLINICAL NEUROENDOCRINOLOGY	5P01 NS11642-03	369,638
KRAUS, ALAN L.	STUDIES OF LABORATORY ANIMAL DISEASES	5P40 RR00658-05	73,629
KREILICK, ROBERT W.	LOCAL STRUCTURE OF BIOLOGICAL METAL COMPLEXES	1R01 GM22793-01	32,931
KRUGH, THOMAS R.	MOLECULAR BASIS OF THE ACTINOMYCIN-DNA INTERACTION	2R01 CA14103-04	70,751
KRUGH, THOMAS R.	PHYSICO-CHEMICAL STUDIES OF INTERCALATING DRUGS	5R01 CA17865-02	68,585
LA CELLE, PAUL L.	DETERMINANTS OF RBC DEFORMABILITY AND CAPILLARY FLOW	5R01 HL16421-06	62,554
LA CELLE, PAUL L.	CENTER FOR THE STUDY OF BLOOD CELL RHEOLOGY	5P01 HL18208-02	488,198
LAPHAM, LOWELL W.	GROWTH AND DEVELOPMENT OF HUMAN FETAL BRAIN IN VITRO	5R01 HD07078-04	65,879
LAPHAM, LOWELL W.	GROWTH AND DEVELOPMENT OF HUMAN FETAL BRAIN IN VITRO	5R01 HD07078-05	69,986
LAWRENCE, CHRISTOPHER W.	RADIATION MUTAGENESIS AND REPAIR IN SACCHAROMYCES	5R01 GM21858-02	74,197
LEDDY, JOHN P.	HOST DEFENSE, INFLAMMATION AND CELLULAR INJURY	5R01 AI12568-02	109,500
LICHTMAN, MARSHALL A.	SUBSTRATE AND CATION TRANSPORT IN HUMAN LEUKOCYTES	5R01 CA12790-05	105,012
LIN, SHU-REN.	CEREBRAL BLOOD FLOW AFTER CARDIAC ARREST	1R01 HL18590-01	51,396
LOCKWOOD, DEAN H.	INSULIN ACTION IN NORMAL AND RESISTANT STATES	7R01 AM20129-01	101,541
MANILOFF, JACK	CELLULAR AND MOLECULAR BIOLOGY OF MYCOPLASMAS	5R01 AO7939-09	52,641
MANILOFF, JACK	BIOLOGY OF MYCOPLASMA VIRUSES	5R01 AI10605-05	66,248
MARINETTI, GUIDO V.	BIOCHEMISTRY AND FUNCTION OF LIPIDS AND CELL MEMBRANES	5R01 HL02063-21	72,424
MARQUIS, ROBERT E.	PHYSIOLOGY OF DENTAL PLAQUE BACTERIA	5R01 DE04132-02	46,824
MENGUY, RENE	INFLUENCE OF STRESS ON GASTRIC MUCOSAL ENERGY METABOLISM	5R01 AM17092-03	25,833
MENGUY, RENE	GASTRIC MUCOSAL ENERGY METABOLISM IN STRESS ULCERATION	5R01 AM17955-02	55,559
MERIN, ROBERT G.	EFFECT OF INHALATION ANESTHESIA ON MYOCARDIAL METABOLISM	5R01 HL13257-07	48,466
MILLER, LEON L.	NET SYNTHESIS OF PLASMA PROTEINS BY PERFUSED LIVER	5R01 AM11029-10	40,477
MILLER, LEON L.	NET SYNTHESIS OF PLASMA PROTEINS BY PERFUSED LIVER	5R01 AM11029-11	50,423
MILLER, MORTON W.	BIOLOGICAL RESPONSES TO BIOMEDICAL ULTRASOUND	5R01 GM22680-02	45,501
MILLER, R PAUL	EFFECT OF SOMATOMEDIN ON CHONDROCYTES IN TISSUE CULTURE	5R01 AM16936-03	37,967
MORGAN, HERBERT R.	LATENCY AND VIRAL NEOPLASIA	3R01 CA05206-14S1	2,570
MORRIS, THOMAS W.	VENOUS STRUCTURE AND FUNCTION	1R01 HL19677-01	40,549
MOSS, ARTHUR J.	FOLLOW-UP STUDY OF ACUTE CORONARY HEART ATTACKS	5R01 HL15790-04	141,402
NEUMAN, WILLIAM F.	THE ROLE OF BONE MEMBRANES IN CALCIUM REGULATION	5R01 AM17074-02	81,551
NOTIDES, ANGELO C.	THE UTERINE ESTROGEN-BINDING PROTEINS	2R01 HD06707-04	124,606
NOTIDES, ANGELO C.	THE UTERINE ESTROGEN-BINDING PROTEINS	5R01 HD06707-05	113,031
OLMSTED, JOANNA B.	CELLULAR CONTROL OF NEURONAL MICROTUBULE ASSEMBLY	5R01 GM22214-02	61,007
ORBISON, J. LOWELL	SUPPORT FOR GENERAL CLINICAL RESEARCH CENTER	5M01 RR00044-16	630,893
ORBISON, J. LOWELL	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05403-15	261,305
PECK, WILLIAM A.	HORMONAL REGULATION OF BONE CELL METABOLISM	5R01 AM09865-11	83,380
PENNEY, DAVID P.	EFFECTS OF CHRONIC L-DOPA THERAPY ON GUT AND ADRENALS	2R01 NS10897-02	43,200
PERACCHIA, CAMILLO	STRUCTURE FUNCTION IN LOW RESISTANCE JUNCTIONS	5R01 GM20113-03	31,941
POLAND, ALAN P.	STUDY OF TOXICITY OF CHLORINATED DIBENZO-P-DIOXINS	5R01 ES00965-03	74,306
PRAKASH, LOUISE	REPAIR OF DAMAGED DNA AND MUTAGENESIS IN YEAST	5R01 GM19261-05	36,198
PRAKASH, SATYA	GENE VARIATION IN NATURAL POPULATIONS	5R01 GM19217-05	84,368



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
PUSKIN, JEROME S.	EPR OF CATION BINDING AND TRANSPORT BY MEMBRANES	1R01 GM21664-01A1	33,952
RICHTER, GOETZ W.	IRON IN CELL PATHOLOGY	5R01 AM12381-09	78,151
RIFKIN, BARRY R.	PATHOGENESIS OF BONE LOSS IN PERIODONTAL DISEASE	1R23 DE04443-01	14,004
RITTERSON, ALBERT L.	HOST-PARASITE RELATIONSHIPS IN TRICHINOSIS	5R01 AO1042-20	22,488
ROGOFF, STANLEY M.	LIQUID CHOLESTEROL ESTER THERMOGRAPHY OF THE BREAST	5R01 CA17335-02	18,512
ROWLEY, PETER T.	CONTROL OF FETAL HEMOGLOBIN SYNTHESIS	2R01 AM16847-04	61,111
ROWLEY, PETER T.	BETA-THALASSEMIA SCREENING AND GENETIC COUNSELING	5R01 HL17465-02	56,340
ROWLEY, PETER T.	BETA-THALASSEMIA SCREENING AND GENETIC COUNSELING	5R01 HL17465-03	67,328
RUBIN, PHILIP	CLINICAL RADIATION RESEARCH CENTER	5P01 CA11051-08	587,497
RUBIN, PHILIP	COOPERATIVE STUDY OF RADIATION THERAPY	2R10 CA12262-05	89,224
RUBIN, PHILIP	E.C.O.G. RADIATION THERAPY COORDINATING OFFICE	3R10 CA16449-01S1	7,137
SCHLESSINGER, RICHARD H.	A SYNTHESIS OF THE ELEMANOLIDE DILACTONE VERNOLEPIN	5R01 CA18485-02	52,806
SCHLESSINGER, RICHARD H.	A PRACTICAL TOTAL SYNTHESIS OF THE PROSTAGLANDINS	5R01 HL17341-02	58,529
SCHMALE, ARTHUR	PSYCHOSOCIAL COLLABORATIVE GROUP FOR CANCER CONTROL	1R18 CA19681-01	197,284
SCHWARTZ, SEYMOUR I.	PULMONARY PLATELETS IN SHOCK, TRAUMA, AND EMBOLIZATION	2R01 HL13466-06	72,000
SEGEL, GEORGE B.	CATION FLUX AND ENERGY METABOLISM IN LYMPHOCYTES	2R01 CA14576-04	55,385
SELANDER, ROBERT K.	BIOCHEMICAL GENETICS OF WILD AND LABORATORY MICE	5R01 GM22126-02	78,827
SENIOR, ALAN E.	A STUDY OF BINDING SITES ON THE MITOCHONDRIAL ATPASE	5R01 AM16366-02	29,421
SENIOR, ALAN E.	PROLACTIN RECEPTORS IN NORMAL AND NEOPLASTIC BREASTS	5R01 CA16787-02	48,802
SENIOR, ALAN E.	PROLACTIN RECEPTORS IN NORMAL AND NEOPLASTIC BREASTS	5R01 CA16787-03	49,827
SHAMOO, ADIL E.	MOLECULAR MECHANISM OF ACTIVE TRANSPORT	5R01 AM17571-03	63,347
SHAMOO, ADIL E.	PHYSICAL BIOCHEMISTRY OF CALCIUM TRANSPORT IN MUSCLE	1R01 AM18892-01A1	61,736
SHERMAN, FRED	THE GENETIC CONTROL OF CYTOCHROME C	5R01 GM12702-12	127,202
SHRAGER, PETER G.	BIOCHEMICAL PROBES OF EXCITABLE MEMBRANES	2R01 NS10500-04	49,806
SMITH, FRANK A.	TOXICITY OF ORGANIC FLUORO COMPOUNDS, FLUOROACETATE	5R01 ES00779-02	59,986
SOBEL, HENRY M.	DRUG-NUCLEIC ACID INTERACTIONS BY X-RAY CRYSTALLOGRAPHY	1R01 CA18776-01	41,475
SOBEL, HENRY M.	PURINE-PYRIMIDINE CRYSTALLINE COMPLEXES	5R01 GM13939-11	93,555
SORRENTINO, SANDY, JR.	HUMAN FETAL NEUROENDOCRINOLOGY	5R01 HD07926-03	21,946
SPAR, IRVING L.	STUDIES WITH RADIOIODINATED ANTISERUM TO CEA	5R26 CA16723-03	68,409
STOLL, RALPH W.	EXTRAPANCREATIC SIGNIFICANCE OF PROINSULIN	5R01 AM15787-03	33,441
SUTHERLAND, ROBERT M.	COMBINED RADIOTHERAPY-CHEMOTHERAPY STUDIES	1R01 CA20329-01	198,302
TAI, HSIN-HSIUNG	ENZYMES IN PROSTAGLANDIN METABOLISM	5R01 GM21588-02	41,084
TANAKA, RYO	BIOCHEMICAL MECHANISM OF TRANSMITTER RELEASE	5R01 NS11951-02	58,583
TANAKA, RYO	BIOCHEMICAL MECHANISM OF TRANSMITTER RELEASE	5R01 NS11951-03	59,849
THOMPSON, BRIAN J.	OPTIMIZATION OF RADIONUCLIDE SPATIAL IMAGING SYSTEMS	1R01 GM22773-01	56,422
TURNER, DOUGLAS H.	KINETIC AND SPECTROSCOPIC STUDIES OF NUCLEIC ACIDS	1R01 GM22939-01	62,633
TURNER, MICHAEL D.	STUDY OF ANTIGENS FROM HUMAN CANCER TISSUE	3R01 CA13453-03S1	16,615
TURNER, MICHAEL D.	TUMOR ASSOCIATED ANTIGENS IN LARGE BOWEL CANCER	2R26 CA16732-03	76,556
TURNER, MICHAEL D.	PANCREATIC TUMOR-ASSOCIATED ANTIGENS	1R26 CA19193-01	62,513
WATERHOUSE, CHRISTINE	HEPATIC SYNTHESIS AND RELEASE OF TRIGLYCERIDE	5R01 CA07123-12	35,446
WEITKAMP, LOWELL R.	HUMAN AUTOSOMAL GENE LINKAGE	5R01 GM19962-04	34,427
WIBERG, JOHN S.	REGULATION OF PROTEIN SYNTHESIS BY BACTERIOPHAGE T4	5R01 GM21999-02	94,357
WILHELM, JAMES M.	STUDIES OF VIRUS REPLICATION AND TRANSFORMATION	5R01 A111427-03	36,297
YOUNG, DONALD A.	MECHANISM OF ACTION OF STEROID HORMONES	5R01 AM16177-05	72,451
YOUNG, FRANK E.	BIOLOGY OF GONORRHEA	5R01 A11709-03	66,861
ZIGMAN, SEYMOUR	NEAR ULTRAVIOLET LIGHT EFFECTS ON OCULAR TISSUES	5R01 EY00459-07	74,279
ORGANIZATION TOTAL	160	15,359,222	
<b>SARANAC LAKE</b>			
TRUDEAU INSTITUTE      ZIP CODE 12983			
CARTER, PHILIP B.	HOST RESPONSE TO INTESTINAL FLORA	5R01 AM18530-02	25,331
COLLINS, FRANK M.	ROLE OF HYPERSENSITIVITY IN ANTIBACTERIAL IMMUNITY	5R22 A07809-09	77,859
COLLINS, FRANK M.	PATHOGENESIS OF CHRONIC LUNG DISEASE	1R01 HL19774-01	90,067
LEFFORD, MAURICE J.	CELLULAR DEFENSES OF THE LUNG	5R01 A112404-02	53,924
MACKANESS, GEORGE B.	CELLULAR DEFENSE MECHANISMS	2R01 A07015-11	188,013
MACKANESS, GEORGE B.	BIOMEDICAL RESEARCH SUPPORT GRANT	5507 RR05705-07	67,805
MC GREGOR, DOUGLAS D.	MEDIATOR OF CELLULAR IMMUNITY	5R01 A08642-08	80,805
MC GREGOR, DOUGLAS D.	AGING, IMMUNITY AND CANCER	5R01 CA15420-03	131,100



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
NORTH, ROBERT J.....	PRODUCTION AND DEPLOYMENT OF MEDIATORS OF CELL IMMUNITY.....	5R01 AI10351-06	99,965
NORTH, ROBERT J.....	IMMUNOLOGICAL BASIS OF TUMOR REGRESSION.....	5R01 CA16642-02	76,863
NORTH, ROBERT J.....	IMMUNOLOGICAL BASIS OF TUMOR REGRESSION.....	5R01 CA16642-03	80,727
PHILLIPS, PHILIP G.....	BIOCHEMICAL PROBES OF MALIGNANT CELL SURFACES.....	7R01 CA20073-01	57,548
VOLKMAN, ALVIN.....	POLYARTHROPATHY IN SALMONELLA-INFECTED RATS.....	5R01 AM17159-03	67,088
VOLKMAN, ALVIN.....	EFFECTS OF ANTITUMOR THERAPY ON MACROPHAGES.....	5R01 CA17756-02	103,010
ORGANIZATION TOTAL	14	1,200,105	
<b>SCHENECTADY</b>			
<b>UNION COLLEGE AND UNIVERSITY SYSTEM—UNION COLLEGE</b>		<b>ZIP CODE 12308</b>	
BUTTERSTEIN, GEORGE M.....	PARTURITION TIME AND REPRODUCTIVE DEVELOPMENT.....	5R01 HD09058-02	23,111
ORGANIZATION TOTAL	1	23,111	
<b>STONY BROOK</b>			
<b>STATE UNIVERSITY OF NEW YORK AT STONY BROOK</b>		<b>ZIP CODE 11794</b>	
ACKERMAN, LAUREN V.....	COLORECTAL PATHOLOGY REFERENCE CENTER.....	5R10 CA15474-03	40,374
ALBERT, ADRIEN.....	POLYAZA-HETEROCYCLE SYNTHESSES FOR CANCER CHEMOTHERAPY.....	5R01 CA18386-02	53,852
ALTMAN, LAWRENCE J.....	STUDIES ON THE INHIBITION OF SQUALENE SYNTHESIS.....	5R01 AM16773-05	86,442
BAUER, WILLIAM R.....	STRUCTURE OF EXTRACHROMOSOMAL AND VIRAL GENOMES.....	5R01 GM21176-03	61,167
BENAMIN, WILLIAM B.....	RELATION OF PROTEIN PHOSPHORYLATION TO INSULIN ACTION.....	5R01 AM18905-02	64,600
BERGOFISKY, EDWARD H.....	MECHANISM OF HYPOXIC REGULATION OF LUNG CIRCULATION.....	5R01 HL17711-02	89,612
BERGOFISKY, EDWARD H.....	MECHANISM OF HYPOXIC REGULATION OF LUNG CIRCULATION.....	5R01 HL17711-03	95,502
BROWN, JOEL E.....	VISUAL RECEPTOR POTENTIALS.....	7R01 EY01914-01	46,171
BROWN, JOEL E.....	ANATOMY AND PHYSIOLOGY OF VISION.....	7R01 EY01915-01	39,956
CHU, BENJAMIN.....	APPLICATION OF LASER SCATTERING TO BIOLOGICAL SYSTEMS.....	3R01 GM20982-01S1	4,000
CHU, BENJAMIN.....	APPLICATION OF LASER SCATTERING TO BIOLOGICAL SYSTEMS.....	5R01 GM20982-02	21,650
CIRILLO, VINCENT P.....	PTS-MEDIATED SUGAR TRANSPORT IN MYCOPLASMAS.....	5R01 AI11506-03	31,583
COHEN, SEYMOUR S.....	STUDIES ON NORMAL AND VIRUS-INFECTED ANIMAL CELLS.....	7R01 AI14005-01	133,648
COLLER, BARRY S.....	RISTOCETIN INDUCED PLATELET AGGREGATION.....	1R01 HL19278-01	41,891
DELIHAS, NICHOLAS.....	RIBOSOME STRUCTURE, FUNCTION AND ANTIBIOTIC INTERACTIONS.....	2R01 GM20052-04	50,918
DEWEY, MAYNARD M.....	THE EFFECT OF FILAMENT LENGTH ON STRIATED MUSCLE TENSION.....	1R01 AM18750-01	67,055
DEWEY, MAYNARD M.....	BIOLOGICAL MEMBRANES AND PARAMYOSIN-CONTAINING FILAMENTS.....	5R01 GM20628-05	42,591
DUDOCK, BERNARD S.....	SEQUENCE ANALYSIS OF BIOLOGICALLY ALTERED TRNA.....	5R01 CA11041-08	58,051
EISENBERG, MOISES.....	INCORPORATION OF RHODOPSIN INTO ARTIFICIAL MEMBRANES.....	1R01 EY01530-01	32,701
FARA, JOHN W.....	HORMONAL CONTROL OF MESENTERIC BLOOD FLOW.....	2R01 HL15422-04	37,489
FOWLER, FRANK W.....	SYNTHESIS OF ANTINEOPLASTIC ALKALOIDS.....	1R01 CA18170-01	26,969
FREUNDLICH, MARTIN.....	MECHANISM OF MULTIVALENT REPRESSION AND ROLE OF TRNA.....	5R01 GM17152-07	52,421
FREUNDLICH, MARTIN.....	MECHANISM OF MULTIVALENT REPRESSION AND ROLE OF TRNA.....	5R01 GM17152-08	58,232
FRIEDMAN, HAROLD L.....	ANTIBIOTIC-ION INTERACTIONS.....	5R01 HL16474-03	40,314
GARANT, PHILIAS R.....	ULTRASTRUCTURE OF EXPERIMENTAL PERIODONTITIS.....	2R01 DE03745-05	90,063
GOLUB, LORNE M.....	GINGIVAL COLLAGEN METABOLISM IN HEALTH AND DISEASE.....	5R01 DE03987-02	55,779
GORDON, JOEL S.....	CHANGES IN CELL-SPECIFIC NONHISTONES DURING MYOGENESIS.....	1R01 AM18859-01	48,273
GROLLMAN, ARTHUR P.....	MOLECULAR PHARMACOLOGY OF TUMOR AND VIRUS INHIBITORS.....	5R01 CA17395-02	159,915
HANSON, DAVID M.....	SPECTROSCOPIC INVESTIGATION OF CONFORMATIONAL CHANGES.....	2R01 GM20803-03	35,030
IACONO, VINCENT J.....	IMMUNOCHEMICAL ANALYSES OF ACTINOMYCES ANTIGENS.....	5R23 DE04168-02	15,257
INOUE, MASAYORI.....	CELL DIVISION AND MEMBRANE PROTEINS.....	5R01 GM19043-05	68,164
JANOFF, AARON.....	HUMAN LEUKOCYTE ELASTASE IN VASCULAR AND LUNG DISEASE.....	5R01 HL14262-05	42,877
JONES, RAYMOND F.....	ENZYME TURNOVER DURING GROWTH AND DEVELOPMENT.....	5R01 HD07986-03	37,058
JONES, RAYMOND F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07067-11	69,808
KARTEN, HARVEY J.....	ANATOMICAL ORGANIZATION OF THE BRAIN.....	5R01 NS12078-03	39,457
KATES, JOSEPH R.....	MOLECULAR BIOLOGY OF VACCINIA VIRUS REPLICATION.....	5R01 AI11839-03	95,238
KATZ, EUGENE R.....	DEVELOPMENTAL GENETIC STUDIES ON CELLULAR SLIME MOLDS.....	5R01 GM18476-04	60,402
KAYE, HERBERT.....	BEHAVIORAL CHARACTERISTICS OF THE NEWBORN INFANT.....	1R01 HD09867-01	63,698
KEEGSTRA, KENNETH G.....	SURFACE GLYCOPETIDES OF NORMAL AND TRANSFORMED CELLS.....	5R01 CA15630-03	29,989
KLEINBERG, ISRAEL.....	EFFECT OF SALIVA ON THE METABOLISM OF DENTAL PLAQUE.....	5R01 DE03993-02	137,746
KOEHN, RICHARD K.....	BIOCHEMICAL GENETICS OF CORRELATED ALLOZYME VARIATION.....	5R01 GM21133-02	34,257
KUSCHNER, MARVIN.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05736-04	82,242

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
LAUTERBUR, PAUL C.....	APPLICATION OF NMR ZEUGMATOGRAPHY IN CANCER RESEARCH.....	5R01 CA15300-03	146,296
MASIAK, STANLEY J.....	BIOCHEMICAL STUDIES OF RED CELL MEMBRANES.....	5R01 AM16821-03	27,451
MILLER, FREDERICK.....	A STUDY OF A COLONIC MUCOPROTEIN ANTIGEN.....	5R01 CA17518-02	31,281
OHTSUBO, EIICHI.....	ELECTRON MICROSCOPE ANALYSIS OF GENETIC FUSION.....	5R01 GM22007-02	40,075
PHILLIPS, MILDRED E.....	CELLULAR IMMUNE RESPONSES IN GRAFT REACTION SYSTEMS.....	5R01 CA15951-03	47,527
POCCIA, DOMINIC L.....	ACTIVATION OF SPERM NUCLEUS AT FERTILIZATION.....	1R01 HD09654-01	49,644
POCCIA, DOMINIC L.....	ACTIVATION OF SPERM NUCLEUS AT FERTILIZATION.....	5R01 HD09654-02	52,323
POLLACK, ROBERT E.....	ONCOGENIC VIRUS GENE CONTROL OF CELL GROWTH AND SHAPE.....	1R01 CA18176-01	21,490
POLLOCK, JERRY J.....	PENICILLIN TARGET MEMBRANE PROTEINS.....	5R01 AI12195-02	34,470
POLLOCK, JERRY J.....	LYSOZYME-CELL SURFACE INTERACTIONS AND ORAL DEFENSE.....	5R01 DE04296-02	79,939
RAMIREZ, FAUSTO.....	SUPERPHOSPHORYLATING AGENTS.....	5R01 GM20672-16	69,299
RILEY, MONICA.....	MOLECULAR MECHANISM OF RECOMBINATION IN E. COLI.....	5R01 GM21315-02	46,949
RILEY, MONICA.....	EVOLUTION OF THE TRYPTOPHANASE GENE IN E. COLI.....	5R01 GM21316-03	20,515
SACHS, JOHN R.....	PHYSIOLOGICAL ASPECTS OF MEMBRANE CATION TRANSPORT.....	7R01 AM19185-01	37,181
SACHS, JOHN R.....	PHYSIOLOGICAL ASPECTS OF MEMBRANE CATION TRANSPORT.....	2R01 AM19185-02	87,170
SARMA, RAGHUPATHY.....	X-RAY CRYSTAL STRUCTURE AND FUNCTION OF PROTEINS.....	5R01 AI10762-04	37,969
SARMA, RAGHUPATHY.....	X-RAY CRYSTAL STRUCTURE AND FUNCTION OF PROTEINS.....	5R01 AI10762-05	38,353
SCANDIELLA, CARL J.....	CONTROL OF MEMBRANE FLUIDITY IN ANIMAL CELLS.....	1R01 GM23218-01	67,885
SIMON, SANFORD R.....	CONFORMATION STUDIES ON MODIFIED HEMOGLOBINS.....	5R01 HL13527-06	42,475
SIMON, SANFORD R.....	REGULATION AND CONTROL IN NA-K ATPASE.....	5R01 HL17466-02	41,826
SIMON, SANFORD R.....	REGULATION AND CONTROL IN NA-K ATPASE.....	5R01 HL17466-03	45,629
SIMPSON, MELVIN V.....	MITOCHONDRIA: NUCLEIC ACID SYNTHESIS AND ROLE OF DNA.....	9R01 GM22333-10	53,936
SOKOLOFF, LEON.....	LUBRICATING ABILITY OF SYNOVIAL FLUID.....	5R01 AM17229-03	15,854
SOKOLOFF, LEON.....	IN VITRO CULTURE OF ARTICULAR CHONDROCYTES.....	3R01 AM17258-01S1	3,395
SOKOLOFF, LEON.....	IN VITRO CULTURE OF ARTICULAR CHONDROCYTES.....	5R01 AM17258-02	78,304
SREEBNEY, LEO M.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR05778-01	45,214
STRICHARTZ, GARY R.....	MOLECULAR ASPECTS OF SAXITOXIN BINDING TO NERVE.....	1R01 NS12857-01	31,916
TAICHMAN, LORNE B.....	STABILITY OF DIFFERENTIATION: CRANIOFACIAL STUDY.....	1R23 DE04511-01	14,773
TEGTMAYER, PETER J.....	MECHANISMS OF VIRAL ONCOGENESIS: SV40 GENE FUNCTION.....	7R01 CA18808-01	99,243
TEGTMAYER, PETER J.....	MECHANISMS OF VIRAL ONCOGENESIS: SV40 GENE FUNCTION.....	5R01 CA18808-02	59,022
TEWARSON, REGINALD P.....	NUMERICAL SOLUTION OF RENAL TRANSPORT EQUATIONS.....	5R01 AM17593-03	18,452
TURNER, JOHN R.....	GENETIC ARCHITECTURE OF ADAPTIVE RACIAL DIFFERENCES.....	5R01 GM20702-02	40,958
TWAROG, BETTY M.....	CATCH & THE MECHANISM OF ACTION OF SEROTONIN & DOPAMINE.....	7R01 NS12857-01	52,143
VAN DER KLOOT, WILLIAM G.....	TRANSMITTER RELEASE BY NERVE TERMINALS.....	5R01 NS10320-04	35,082
VAN DER KLOOT, WILLIAM G.....	TRANSMITTER RELEASE BY NERVE TERMINALS.....	2R01 NS10320-05	55,848
WALCOTT, CHARLES.....	EXPERIMENTAL ANALYSIS OF ORIENTATION.....	5R01 NS08708-08	22,588
WILLIAMS, DAVID L.....	HORMONAL REGULATION OF PHOSVITIN MESSENGER RNA.....	5R01 AM18171-02	45,540
WIMMER, ECKARD A.....	VIRAL ONCOGENESIS.....	5R01 CA16879-03	85,590
WITKOVSKY, PAUL.....	THE ORIGIN AND IONIC BASIS OF THE ELECTRORETINOGRAM.....	1R01 EY01762-01	89,810
YAZULLA, STEPHEN.....	SPATIO-CHROMATIC CODING IN RETINAL NEURONS.....	1R01 EY01682-01	35,301
ORGANIZATION TOTAL	82	4,391,158	

## SYRACUSE

### STATE UNIVERSITY OF NEW YORK—COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY ZIP CODE 13210

FLASHNER, MICHAEL.....	STRUCTURAL BIOCHEMISTRY OF BACTERIAL NEURAMINIDASES.....	5R01 AI12532-02	29,686
HARTENSTEIN, ROY.....	DEAMINATION OF AMINO ACIDS BY MYELOPEROXIDASE.....	5R01 CA15864-02	8,597
LALONDE, ROBERT T.....	PROPERTIES OF SULFUR ALKALOIDS.....	5R01 AI10188-06	46,463
LALONDE, ROBERT T.....	NATURALLY OCCURRING MOSQUITO LARVICIDES.....	1R01 ES01278-01	31,399
NAKATSUGAWA, TSUTOMU.....	ORGANOPHOSPHATE-BIOMACROMOLECULE INTERACTIONS.....	5R01 ES01019-02	41,341
SCHUERCH, CONRAD.....	SYNTHETIC CARBOHYDRATE ANTIGENS AND HAPTENS.....	5R01 AI12509-02	64,152
SCHUERCH, CONRAD.....	STEREOSPECIFIC SYNTHESIS OF POLYSACCHARIDES.....	5R01 GM06168-18	39,157
SILVERSTEIN, ROBERT M.....	SEX PHEROMONES IN DISEASE TRANSMITTING TICKS.....	2R01 AI10987-04	22,210
TANENBAUM, STUART W.....	BIOCHEMISTRY OF CYTOTOXIC FUNGAL METABOLITES.....	5R01 AI11902-03	52,297
ORGANIZATION TOTAL	9	335,302	

### STATE UNIVERSITY OF NEW YORK—UPSTATE MEDICAL CENTER ZIP CODE 13210

ANDERSON, GUNNAR H, JR.....	ROLE OF ANGIOTENSIN SENSITIVITY IN RENIN RELEASE.....	1R01 HL19428-01	83,254
ARGYRIS, BERTIE F.....	CELL INTERACTIONS IN THE REJECTION OF TUMOR TRANSPLANTS.....	5R01 CA15462-03	61,237

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
ARGYRIS, THOMAS S.....	RIBOSOME ACCUMULATION IN EPIDERMAL REGENERATION.....	5R01 AM18219-02	34,882
AUCHINCLOSS, J HOWLAND, JR.....	OXYGEN UPTAKE AT ONE MINUTE OF EXERCISE.....	5R01 HL17246-02	75,052
BAKER, BRUCE E.....	THE ENHANCEMENT OF ARTICULAR CARTILAGE REPAIR.....	5R01 AM17359-03	32,115
BECKER, ROBERT O.....	ELECTRICAL CORRELATES OF ACUPUNCTURE.....	5R01 GM21847-02	14,824
BORTOFF, ALEXANDER.....	COORDINATION OF VISCERAL SMOOTH MUSCLE ACTIVITY.....	2R01 AM06958-12	31,723
BORTOFF, ALEXANDER.....	EFFECT OF AGING ON GASTROINTESTINAL SMOOTH MUSCLE.....	5R01 AM18400-02	24,480
BOWMAN, ROGER H.....	METABOLISM AND FUNCTION OF THE PERFUSED RAT KIDNEY.....	5R01 AM14401-06	42,527
BROWN, OLIVER M.....	THE PRESENCE AND SIGNIFICANCE OF HEART ACETYLCHOLINE.....	1R01 HL17799-01A1	31,297
COLTON, RAYMOND H.....	AN INVESTIGATION OF VOICE CHANGE AFTER RADIOTHERAPY.....	5R18 CA17962-02	63,644
CROSS, RICHARD L.....	MECHANISM OF ATP SYNTHESIS BY THE RESPIRATORY CHAIN.....	1R01 GM23152-01	67,347
DOISY, RICHARD J.....	THE IMPORTANCE OF CHROMIUM IN HUMAN NUTRITION.....	5R01 AM15100-06	68,081
DOUGHERTY, ROBERT M.....	ONCOGENIC AND CHRONIC DISEASE WITH TUMOR VIRUSES.....	5R01 CA10148-10	123,787
GOODMAN, DONALD C.....	BIOCHEMICAL RESEARCH SUPPORT GRANT.....	5S07 RR05402-15	159,283
GORDON, GERALD B.....	PATHOGENESIS OF LIPID ACCUMULATION.....	5R01 HL13713-06	47,131
HAS, DAVID C.....	STUDIES ON CELL-MEDIATED IMMUNITY IN POLYMYOSITIS.....	5R01 NS11266-02	35,326
HAMERNIK, ROGER P.....	AUDITORY EFFECT OF COMBINED IMPULSE & CONTINUOUS NOISE.....	5R01 ES00969-03	47,985
HANSON, E LAWRENCE.....	PATENCY OF A SMALL MICROPOROUS VASCULAR PROSTHESIS.....	1R01 HL18663-01	67,769
HANSON, E LAWRENCE.....	PATENCY OF A SMALL MICROPOROUS VASCULAR PROSTHESIS.....	5R01 HL18663-02	69,065
HOLZ, GEORGE G, JR.....	LIPID STUDIES OF TRYPAANOSOMES.....	5R01 AI05802-13	49,974
HSU, ROBERT Y.....	MECHANISM OF FATTY ACID SYNTHESIS IN ANIMALS.....	5R01 AM13390-09	51,045
JONES, DAVID B.....	FINE STRUCTURE OF DISEASED GLOMERULI.....	5R01 HL04300-18	41,319
KRIEBEL, MAHLON E.....	TRANSMITTER RELEASE AT THE NEUROMUSCULAR JUNCTION.....	5R01 NS11996-02	52,742
KRIEBEL, MAHLON E.....	TRANSMITTER RELEASE AT THE NEUROMUSCULAR JUNCTION.....	5R01 NS11996-03	61,002
KRONMAN, MARTIN J.....	MODE OF ACTION OF TEMPLATE DIRECTED POLYMERASES.....	5R01 GM21187-02	48,080
LEVINE, ROBERT A.....	CYCLOC NUCLEOTIDES AND MAMMALIAN GASTRIC SECRETION.....	5R01 AM17912-02	59,688
LINSCHER, WILLEM G.....	A NEW APPROACH TO DISSOLUTION OF CHOLESTEROL GALLSTONES.....	1R01 AM18496-01A1	40,190
LUCAS, JOHN J.....	MEMBRANE GLYCOPROTEIN CHANGES DURING DIFFERENTIATION.....	5R01 HD09046-02	45,133
MC AFE, JOHN G.....	RADIOISOTOPIC SCREENING METHODS FOR RENAL DISEASE.....	5R01 GM18248-05	85,194
MC AFE, JOHN G.....	RADIOISOTOPIC SCREENING METHODS FOR RENAL DISEASE.....	5R01 GM18248-06	77,456
MC AFE, JOHN G.....	LABELING GRANULOCYTES FOR DIAGNOSTIC APPLICATIONS.....	1R01 GM23033-01	108,537
MEYER, FRANZ D.....	STUDIES OF THE LIPID METABOLISM IN PARASITIC HELMINTHS.....	5R01 AI07486-10	58,827
MOZELL, MAXWELL M.....	THE ELECTROPHYSIOLOGY OF OLFACTORY DISCRIMINATION.....	5R01 NS03904-13	48,808
MUELLER, JUSTUS F.....	STUDIES ON SPARGANOSIS AND CESTODE BIOLOGY.....	2R01 AI01876-19	21,874
MURRAY, DAVID G.....	BIOMECHANICAL EVALUATION OF KNEE JOINT ENDOPROSTHESES.....	2R01 AM14964-04A1	56,515
NORD, SAMUEL G.....	BULBAR TRIGEMINAL PAIN MECHANISMS.....	5R01 NS10814-03	43,909
OLER, ALBERT.....	THE CELL MEMBRANE AND NEOPLASIA.....	5R01 CA16629-02	49,334
OLER, ALBERT.....	THE CELL MEMBRANE AND NEOPLASIA.....	5R01 CA16629-03	50,255
OSKI, FRANK A.....	ERYTHROCYTE METABOLISM IN THE NEWBORN INFANT.....	5R01 HD07178-03	25,822
OSKI, FRANK A.....	EFFECTS OF EXCHANGE TRANSFUSION IN PREMATURE INFANTS.....	5R01 HD08492-02	97,214
PRESTON, JAMES B.....	SUPRASEGMENTAL INFLUENCES ON SPINAL MOTONEURONS.....	2R01 NS02957-16	62,645
ROBINSON, JOSEPH D.....	CHANGES IN BRAIN MICROSOMAL STRUCTURE AND COMPOSITION.....	5R01 NS05430-11	44,644
ROBINSON, JOSEPH D.....	CALCIUM TRANSPORT IN THE NERVOUS SYSTEM.....	5R01 NS12193-02	30,283
ROSS, CHARLES R.....	RENAL TRANSPORT CARRIER FOR ORGANIC COMPOUNDS.....	3R01 HL02835-18S1	16,777
ROSS, CHARLES R.....	RENAL TRANSPORT CARRIER FOR ORGANIC COMPOUNDS.....	2R01 HL02835-19	46,222
SPITZER, ROGER E.....	THE ROLE OF PROPERDIN IN THE BIOLOGY OF COMPLEMENT.....	5R01 AI12721-02	74,981
STACH, ROBERT W.....	INVESTIGATIONS ON THE NERVE GROWTH FACTOR.....	5R01 NS12325-02	41,929
STAUFFER, JOHN Q.....	ACQUIRED HYPEROXALURIA AND INTESTINAL DISEASE.....	5R01 AM17968-02	37,339
STEINSCHNEIDER, ALFRED.....	SLEEP APNEA AND THE SUDDEN INFANT DEATH SYNDROME.....	5R01 HD07460-04	111,700
STREETEN, BARBARA W.....	THE FIBER-GEL STRUCTURE OF THE OCULAR ZONULE.....	5R01 EY01602-02	43,260
STREETEN, DAVID H.....	ROLE OF KININS IN A NEW POSTURAL SYNDROME.....	5R01 HL14076-02	40,424
TEPPERMAN, JAY.....	ADAPTATION OF MEMBRANE-ASSOCIATED FUNCTIONS.....	5R01 AM05410-15	98,535
WEINER, IRWIN M.....	BIOCHEMICAL ASPECTS OF RENAL ELECTROLYTE TRANSPORT.....	5R01 HL10595-11	66,027
WEINER, IRWIN M.....	BIOCHEMICAL ASPECTS OF RENAL ELECTROLYTE TRANSPORT.....	5R01 HL10595-12	70,400
WILLIAMS, WILLIAM J.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00229-11	557,445
YNTEMA, CHESTER L.....	STUDIES ON DEVELOPMENT IN THE TURTLE.....	2R01 HD03484-09	26,902
YOUNG, RONALD F.....	ANATOMIC STUDY OF TRIGEMINAL PRIMARY AFFERENT FIBERS.....	1R01 DE04347-01	30,235
YOUNG, RONALD F.....	INTERDEPENDENCE OF TRIGEMINAL RELAY NUCLEI.....	5R01 NS11248-02	25,982
YOUNG, RONALD F.....	INTERDEPENDENCE OF TRIGEMINAL RELAY NUCLEI.....	5R01 NS11248-03	26,887
ORGANIZATION TOTAL	60	3,806,344	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>SYRACUSE CANCER RESEARCH INSTITUTE      ZIP CODE 13202</b>			
GOLD, JOSEPH.....	TREATMENT OF CANCER BY INHIBITION OF GLUCONEOGENESIS.....	5R01 CA13687-03	44,069
ORGANIZATION TOTAL	1	44,069	
<b>SYRACUSE UNIVERSITY      ZIP CODE 13210</b>			
BARLOW, ROBERT B. JR.....	FUNCTIONAL ORGANIZATION OF THE VISUAL SYSTEM.....	5R01 EY00667-05	87,877
DITTMER, DONALD C.....	HETEROCYCLIC ORGANOSULFUR CHEMISTRY.....	5R01 CA08250-12	41,142
DUNHAM, PHILIP B.....	IMMUNOSTIMULATION OF MEMBRANE TRANSPORT IN TUMOR CELLS.....	1R01 CA19064-01	85,477
DUSEK, JEROME B.....	THE DEVELOPMENT OF THE SELF-CONCEPT IN ADOLESCENCE.....	5R01 HD09094-02	56,096
ELIAS, MERRILL F.....	INFORMATION PROCESSING: AGE AND HYPERTENSION.....	2R01 AG00473-04	89,199
FLORINI, JAMES R.....	RNA AND PROTEIN SYNTHESIS IN REPAIR OF HEART INJURY.....	5R01 HL11551-09	67,961
FONDY, THOMAS P.....	GLYCEROL-P DEHYDROGENASE IN CANCER CHEMOTHERAPY.....	3R01 CA10250-09S1	10,055
GARDNER, ERIC F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07068-11	69,807
HARTH, ERICH.....	DETERMINATION OF RECEPTIVE FIELDS IN VISUAL PATHWAYS.....	5R01 EY01215-03	43,321
LEVY, H. RICHARD.....	MECHANISMS OF CONTROL OF ENZYMIC ACTIVITY.....	5R01 AM07720-12	74,655
ROTHENBERG, MARTIN.....	VOICE QUALITY AND LARYNGEAL FREQUENCY.....	5R01 NS08919-06	22,900
ROTHENBERG, MARTIN.....	VOICE QUALITY AND LARYNGEAL FREQUENCY.....	2R01 NS08919-07	42,994
ROTHENBERG, MARTIN.....	TACTILE PERCEPTION OF SPEECH.....	5R01 NS10474-03	41,192
SLEPECKY, RALPH A.....	ASYMMETRIC AND SYMMETRIC DIVISION IN DIFFERENTIATION.....	1R01 GM23228-01	49,183
STERN, S. ALEXANDER.....	INERT GAS NARCOSIS AND THE LIPID 'FREE VOLUME'.....	5R01 GM19908-04	43,429
STURR, JOSEPH F.....	MECHANISMS OF VISUAL SENSITIVITY.....	5R01 EY01571-02	83,184
SULLIVAN, DAVID T.....	DEVELOPMENTAL REGULATION OF KYNURENINE HYDROXYLASE.....	5R01 GM21286-02	59,236
SULLIVAN, DAVID T.....	A DEVELOPMENTAL AND GENETIC STUDY OF A TRANSPORT SYSTEM.....	5R01 GM22366-01	44,202
TUPPER, JOSEPH T.....	CAMP AND THE MEMBRANE IN NORMAL AND MALIGNANT CELLS.....	5R01 CA17203-02	51,351
VERRILLO, RONALD T.....	CUTANEOUS MECHANORECEPTOR SYSTEMS.....	5R01 NS09940-05	78,018
VOURNAKIS, JOHN N.....	THE SECONDARY STRUCTURE OF EUCARYOTIC MESSENGER RNA.....	5R01 GM22280-02	43,588
WANG, CHIU-SEN.....	BEHAVIOR OF AEROSOL PARTICLES IN INTERNAL FLOWS.....	3R01 HL13414-04S1	6,050
WANG, CHIU-SEN.....	DEPOSITION OF HYGROSCOPIC AEROSOLS.....	1R01 HL19700-01	68,457
WARNER, FRED D.....	MACROMOLECULAR BASIS FOR CILIARY MOTILITY.....	5R01 GM20690-03	47,398
ZWISLOCKI, JOZEF J.....	SENSORY PROCESSES.....	2R01 NS03950-14	196,110
ZWISLOCKI, JOZEF J.....	SENSORY PROCESSES.....	2R01 NS03950-15	109,199
ORGANIZATION TOTAL	26	1,612,081	
<b>TROY</b>			
<b>RENSSELAER POLYTECHNIC INSTITUTE      ZIP CODE 12181</b>			
ARCHER, SYDNEY.....	LETHAL BIOSYNTHESIS AS A BASIS FOR DRUG DESIGN.....	5R01 AI12874-02	36,173
DINAN, JOYCE J.....	MECHANISM OF K <sup>+</sup> TRANSPORT IN LIVER MITOCHONDRIA.....	3R01 GM20726-02S1	7,489
DOREMUS, ROBERT H.....	GROWTH AND AGGLOMERATION OF CALCIUM OXALATE CRYSTALS.....	2R01 AM16132-04	36,553
DOREMUS, ROBERT H.....	GROWTH AND AGGLOMERATION OF CALCIUM OXALATE CRYSTALS.....	5R01 AM16132-05	38,616
FERRIS, JAMES P.....	PHOTOSYNTHESIS OF ANTIVIRAL AND ANTITUMOR DRUGS.....	2R01 CA14511-04	57,386
FERRIS, JAMES P.....	A FUNGAL MONOOXYGENASE SIMILAR TO HEPATIC P-450.....	1R01 GM22720-01	45,674
HARPER, RICHARD A.....	MEASUREMENTS OF STRAIN IN BIOLOGICAL MINERAL APATITES.....	5R01 DE03728-03	36,747
KANDEL, GILLRAY L.....	PHOTOPIC AND SCOTOPIC VISION OF STRABISMIC AMBLYOPIA.....	5R01 EY00800-04	43,012
MOSS, GERALD.....	ANESTHESIA AND PATHWAYS OF BRAIN GLUCOSE OXIDATION.....	5R01 GM20560-03	35,038
MOSS, GERALD.....	NEONATAL CEREBRAL HYPOXIA IN HYALINE MEMBRANE DISEASE.....	5R01 HD07160-03	45,233
MOW, VAN C.....	BIOMECHANICS OF AGING AND OSTEOARTHRITIC CARTILAGE.....	1R01 AM19094-01	85,723
NEWELL, JONATHAN C.....	PULMONARY HEMODYNAMICS IN ATELECTASIS AND HYPOXIA.....	1R01 HL18630-01A1	34,933
POTTS, KEVIN T.....	FUSED HETEROCYCLES AS POTENTIAL ANTICANCER AGENTS.....	5R01 CA08495-11	51,120
POTTS, KEVIN T.....	NOVEL HETEROCYCLES AS POTENTIAL HYPOTENSIVE AGENTS.....	3R01 HL15021-03S1	3,730
POTTS, KEVIN T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07104-10	33,565
ROY, HARRY.....	SYNTHESIS AND ASSEMBLY OF FRACTION I PROTEIN.....	7R01 GM23353-01	51,672
WILSON, DWIGHT E. JR.....	STUDIES ON CELL TRANSFORMATION HERPES VIRUS.....	5R01 CA16550-02	43,944
ZELMAN, ALLEN.....	A THIRD GENERATION ARTIFICIAL KIDNEY.....	7R01 AM19198-01	44,774
ORGANIZATION TOTAL	18	731,382	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NEW YORK—Continued</b>			
<b>UPTON</b>			
<b>ASSOCIATED UNIVERSITIES—BROOKHAVEN NATIONAL LABORATORY</b>		<b>ZIP CODE 11973</b>	
ATKINS, HAROLD L.....	MELANOMA DETECTION WITH RADIOPHARMACEUTICALS.....	5R01 CA16316-02	52,927
ATKINS, HAROLD L.....	DIAGNOSIS OF MYOCARDIAL INFARCTION BY RADIOISOTOPES.....	3R01 HL16553-02S1	2,940
ATKINS, HAROLD L.....	DIAGNOSIS OF MYOCARDIAL INFARCTION BY RADIOISOTOPES.....	5R01 HL16553-03	43,953
BENNETT, GERALD W.....	BRAGG PEAK LOCALIZATION AND CONTROL IN VIVO.....	5R01 CA18347-02	177,544
CHIKKAPPA, G.....	NEUTROPHILIC GRANULOCYTOPOIESIS IN LEUKEMIAS.....	5R01 CA14742-03	52,574
CRONKITE, EUGENE P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05731-05	70,709
IMAI, JUNICHI.....	HYPERTENSION: GENETIC INFLUENCE OF KIDNEY.....	2R01 HL14913-04	72,185
JEFFREY, GEORGE A.....	CRYSTAL STRUCTURAL STUDIES IN CARBOHYDRATE CHEMISTRY.....	5R01 GM21794-02	74,382
SELTZER, STANLEY.....	STUDY OF MECHANISM OF ENZYMIC CIS-TRANSISOMERIZATION.....	5R01 GM18451-05	22,386
SHAW, ELLIOTT N.....	SPECIFIC SYNTHETIC INHIBITORS OF PROTEASES.....	5R01 GM17849-05	51,718
SHAW, ELLIOTT N.....	SUPPORT FOR ELECTRON MICROSCOPE FACILITY.....	2P41 RR00715-04	338,026
STUDIER, F WILLIAM.....	REPLICATION OF T7 DNA.....	5R01 GM21872-02	44,842
WOLF, ALFRED P.....	A PROGRAM IN SUPPORT OF NUCLEAR MEDICINE.....	5P41 RR00657-02	152,386
ORGANIZATION TOTAL	13	1,156,572	
<b>UTICA</b>			
<b>MASONIC FOUNDATION FOR MEDICAL RESEARCH AND HUMAN WELFARE</b>		<b>ZIP CODE 13501</b>	
MOE, GORDON K.....	CARDIAC ACTIONS OF DIGITALIS.....	1R01 HL19487-01	121,628
WULF, VERNER J.....	A STUDY OF VISUAL COUPLING REACTIONS.....	5R01 EY00236-15	44,190
ORGANIZATION TOTAL	2	165,818	
<b>VALHALLA</b>			
<b>NEW YORK MEDICAL COLLEGE</b>		<b>ZIP CODE 10585</b>	
DANISHEFSKY, ISIDORE.....	HEPARIN, BLOOD COAGULATION AND LIPID METABOLISM.....	3R01 HL16955-02S1	3,314
FRANK, MORTON H.....	CHEMORECEPTOR REFLEXES FROM THE ILEUM.....	1R01 HL19268-01	45,217
HOROWITZ, MARTIN I.....	BIOCHEMISTRY OF GASTRIC SULFATED GLYCOPROTEINS.....	5R01 AM15475-05	55,520
HOROWITZ, MARTIN I.....	BIOCHEMISTRY OF GASTRIC SULFATED GLYCOPROTEINS.....	2R01 AM15475-06	80,260
KIKAWA, YUTAKA.....	ALVEOLAR TYPE II EPITHELIAL CELLS IN HEALTH & DISEASE.....	7R01 HD10366-01	106,461
PIGMAN, W WARD.....	GLYCOPROTEINS OF NORMAL AND CANCEROUS COLONIC TISSUE.....	5R26 CA17168-02	97,468
RAPPAPORT, IRVING.....	BACKGROUND PLAQUE FORMING CELLS IN YOUNG AND AGING MICE.....	5R01 AI11015-02	46,500
RAPPAPORT, IRVING.....	BACKGROUND PLAQUE FORMING CELLS IN YOUNG AND AGING MICE.....	5R01 AI11015-03	55,222
TABACHNICK, MILTON.....	TRANSPORT OF THYROID HORMONES.....	2R01 AM05344-15	59,196
WALLACE, SUSAN S.....	MODIFICATION OF X-RAY INDUCED DAMAGES IN PHAGES T4.....	7R01 CA21342-01	33,094
ORGANIZATION TOTAL	10	582,252	
<b>WILLIAMSVILLE</b>			
<b>ERIE COMMUNITY COLLEGE</b>		<b>ZIP CODE 14221</b>	
NINAN-ADANGAPURAM, THAMBY.....	HOST-MEDIATED ASSAY OF CARCINOGENIC & MUTAGENIC AGENTS.....	1R01 CA18478-01	34,719
ORGANIZATION TOTAL	1	34,719	
<b>YONKERS</b>			
<b>BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH</b>		<b>ZIP CODE 10701</b>	
ROBERTS, DONALD W.....	AN UNDESCRIBED VARIOLA-LIKE VIRUS PATHOGEN.....	5R01 AI08836-08	70,509
ROBERTS, DONALD W.....	POTENTIAL OF COELOMOMYCES FOR CONTROLLING MOSQUITOES.....	5R01 AI10010-06	51,650
ORGANIZATION TOTAL	2	122,159	
STATE TOTAL	2,371	244,864,219	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA</b>			
<b>CHAPEL HILL</b>			
<b>POLICY RESEARCH AND PLANNING GROUP      ZIP CODE 27514</b>			
HARDING, JOE R.	ATTITUDES TOWARD FERTILITY REGULATING MECHANISMS	1R01 HD10688-01	68,923
ORGANIZATION TOTAL	1	68,923	
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL      ZIP CODE 27514</b>			
BASEMAN, JOEL B.	GROWTH AND METABOLISM OF VIRULENT TREPONEMA PALLIDUM	2R01 AI1283-04	76,871
BEAR, RICHARD S.	MOLECULAR STRUCTURE OF CONNECTIVE TISSUE FIBERS	5R01 AM14120-07	39,409
BEAR, RICHARD S.	STRUCTURAL MOLECULAR NEUROANATOMY OF MYELIN	2R01 NS10681-04	27,871
BEAR, RICHARD S.	STRUCTURAL MOLECULAR NEUROANATOMY OF MYELIN	5R01 NS10681-05	31,385
BLYTHE, WILLIAM B.	STUDIES OF UREMIA AND EXCHANGES OF IONS AND WATER	5P01 AM08458-12	187,368
BRIGGAMAN, ROBERT A.	UTILIZATION OF EPIDERMAL CELL MODEL FROM HUMAN SKIN	5R01 AM10546-11	46,501
BRINKHOUS, KENNETH M.	BLOOD COAGULATION AND HEMOPHILIA	5R01 HL01648-29	86,411
BRINKHOUS, KENNETH M.	HEMOSTASIS & THROMBOSIS—ANALYSIS, METHODS, & STANDARDS	2R01 HL10582-11	25,976
BRINKHOUS, KENNETH M.	SPECIALIZED CENTER OF RESEARCH IN THROMBOSIS	3P50 HL14228-05S1	136,081
BROOKS, FREDERICK P, JR.	INTERACTIVE GRAPHICS FOR MOLECULAR STUDIES	2P41 RR00898-03	63,114
BUTLER, THOMAS C.	BIOCHEMICAL EFFECTS AND CHEMICAL REACTIONS OF DRUGS	2P01 GM18715-04	122,686
BUTLER, THOMAS C.	BIOCHEMICAL EFFECTS AND CHEMICAL REACTIONS OF DRUGS	5P01 GM18715-05	96,376
CARINS, ROBERT B.	THE DEVELOPMENT OF AGGRESSIVE BEHAVIORS	2R01 HD08464-03	34,303
CAMPBELL, ROBERT L.	OUTPATIENT GENERAL ANESTHESIA—BALANCED TECHNIQUE	2R01 DE04208-02	36,735
CAPLOW, MICHAEL	BIOCHEMICAL MECHANISMS RELEVANT TO DENTISTRY	2R01 DE03246-07	74,117
CARTER, CHARLES W, JR.	STRUCTURAL STUDIES OF PROTEIN TO NUCLEIC ACID BINDING	5R01 GM21991-02	28,539
CHAE, CHI-BOM	ROLE OF CHROMOSOMAL PROTEINS IN AGING	1R01 AG00103-01	30,285
CHAE, CHI-BOM	ROLE OF CHROMOSOMAL PROTEINS IN AGING	5R01 AG00103-02	25,155
CHAE, CHI-BOM	REGULATION OF SIMIAN VIRUS 40 GENES IN TRANSFORMED CELLS	5R01 CA17390-02	36,731
CHAE, CHI-BOM	DEGRADATION OF CHROMOSOMAL NONHISTONE PROTEINS	5R01 GM21846-02	28,372
CHANEY, STEPHEN G.	ALTERED RNA METABOLISM IN CHRONIC LYMPHOCYTIC LEUKEMIA	5R01 CA15697-03	32,418
CLYDE, WALLACE A, JR.	PULMONARY SCOR: LUNG INJURY BY CHILDHOOD INFECTIONS	1P50 HL19171-01	495,975
COCOLAS, GEORGE H.	STEREOCHEMISTRY OF THE CHOLINERGIC MECHANISM	5R01 NS05088-06	19,314
COOPER, CARY W.	CALCIUM, CALCEMIC HORMONES AND GASTRIN	5R01 AM17743-02	39,011
COUCH, JOHN N.	STUDIES ON SOME FUNGAL PARASITES OF MOSQUITOES	5R01 AI03235-16	39,662
DYKSTRA, LINDA A.	SIGNAL DETECTION ANALYSIS OF ANALGESICS	5R01 GM22683-02	22,635
EARP, JO ANNE	HYPERTENSION: FAMILY STRATEGIES FOR PATIENT ADHERENCE	5R25 HL18414-02	52,748
EDGELL, MARSHALL H.	PHI X 174 COAT PROTEINS	5R01 AI09044-08	37,764
ELDRIDGE, FREDERIC L.	NEUROPHYSIOLOGIC STUDIES OF RESPIRATORY CONTROL	5R01 HL17689-03	54,577
ELDRIDGE, FREDERIC L.	NEUROPHYSIOLOGIC STUDIES OF RESPIRATORY CONTROL	5R01 HL17689-04	60,859
ELSTON, ROBERT C.	GENETIC & STATISTICAL ANALYSIS OF CANCER ETIOLOGY	5R01 CA17107-02	54,236
ELSTON, ROBERT C.	GENETIC ANALYSIS OF MULTIFACTORIAL TRAITS	5R01 GM16697-08	127,926
FAUST, ROBERT G.	MECHANISM OF SUGAR TRANSPORT BY THE SMALL INTESTINE	5R01 AM07998-12	50,366
FINN, ARTHUR L.	SODIUM AND POTASSIUM TRANSPORT IN THE URINARY BLADDER	5R01 AM17854-02	78,213
FINN, ARTHUR L.	SODIUM AND POTASSIUM TRANSPORT IN THE URINARY BLADDER	5R01 AM17854-03	80,435
FORDHAM, CHRISTOPHER, III	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00046-16	822,418
FORDHAM, CHRISTOPHER, III	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05406-15	261,305
FRENCH, FRANK S.	DEVELOPMENT OF MALE REPRODUCTIVE FUNCTION	5R01 HD04466-06	43,558
GALLAGHER, JAMES J.	LONGITUDINAL INTERVENTION FOR HIGH-RISK CHILDREN	5P01 HD09130-02	234,904
GATZY, JOHN T, JR.	AIRBORNE METALS AND LUNG PERMEABILITY	5R01 HL16674-03	43,617
GERATZ, J DIETER	PROTEASE INHIBITORS, PHYSIOLOGY AND PATHOLOGY	5R01 AM10746-10	54,164
GOODER, HARRY	CELL WALL DEFECTIVE VARIANTS OF NEISSERIA GONORRHOEA	5R01 AI12535-02	36,186
GOTTSCHALK, CARL W.	MICROPUNCTURE STUDY OF KIDNEY FUNCTION	5R01 HL02334-20	198,366
GOTTSCHALK, CARL W.	MICROPUNCTURE STUDY OF KIDNEY FUNCTION	2R01 HL02334-21	220,826
GOZ, BARRY	IDURD AND ALKALINE PHOSPHATASE IN HUMAN CANCER CELLS	5R01 CA16460-02	43,052
GRAHAM, JOHN B.	HEMOSTASIS RESEARCH PROGRAM	5P01 HL06350-15	449,319
GRANT, LESTER D.	DELINEATION OF CNS NEUROTRANSMITTER SYSTEMS	3R01 NS09844-03S1	9,010
GRAY, TIMOTHY K.	HORMONAL CONTROL OF CALCIUM AND PHOSPHATE ABSORPTION	5R01 AM17835-02	35,954
GRAY, TIMOTHY K.	HORMONAL CONTROL OF CALCIUM AND PHOSPHATE ABSORPTION	5R01 AM17835-03	35,630
GREENBERG, B G.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05450-15	57,708
GRISHAM, JOE W.	FEEDBACK MEDIATORS CONTROLLING DNA SYNTHESIS IN LIVER	5R01 AM17595-03	33,019
HALL, THOMAS L.	POPULATION RESEARCH PROGRAM	5P30 HD05798-03	196,454

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
HARNED, HERBERT S, JR.....	EFFECTS OF SWALLOWING ON PERINATAL RESPIRATION.....	5R01 HD08639-02	29,934
HARRISON, JOHN H.....	STRUCTURAL PROPERTIES OF MALATE DEHYDROGENASE.....	2R01 HL12585-08	50,433
HAUGHTON, GEOFFREY.....	INTEGRATED TUMOR BIOLOGY PROGRAM.....	5P01 CA16246-03	416,530
HAYWARD, JAMES N.....	CENTRAL NEURAL REGULATION OF BODY FLUIDS.....	7R01 NS13411-01	42,848
HEIZER, WILLIAM D.....	INTESTINAL PEPTIDASES: PROPERTIES AND FUNCTIONS.....	5R01 AM15119-06	63,091
HENSON, O'DELL W, JR.....	MECHANISM OF ACOUSTIC PERCEPTION AND ORIENTATION.....	5R01 NS12445-02	45,462
HERION, JOHN C.....	LEUKOCYTES AND HEMOSTASIS.....	5R01 HL17835-02	66,884
HIRSCH, PHILIP F.....	REGIONAL DENTAL RESEARCH CENTER.....	5P50 DE02668-10	1,400,000
HISKEY, RICHARD G.....	SYNTHESIS OF INSULIN ANALOGS.....	2R01 AM03416-17	63,406
HISKEY, RICHARD G.....	REACTIVITY AND PAIRING OF CYSTINE RESIDUES.....	5R01 GM07966-16	45,715
HODGSON, DEREK J.....	STRUCTURES OF ANTITUMOR AZAPURINES AND AZAPYRIMIDINES.....	5R01 CA15171-03	37,407
HODGSON, DEREK J.....	STRUCTURAL STUDIES IN TREATMENT OF METAL POISONING.....	5R01 ES00895-03	31,293
HOLCOMB, GEORGE R.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S07 RR07072-11	119,843
HOLLINS, MARK.....	CAUSES AND TIME COURSE OF ACCOMMODATIVE MICROPSIA.....	5R23 EY01391-02	6,850
HUANG, ENG-SHANG.....	ANALYSIS OF HUMAN CYTOMEGALOVIRUS.....	5R01 AM12717-02	59,347
HUTCHISON, CLYDE A, III.....	GENETICS AND DNA CHEMISTRY OF PHAGE PHI X-174.....	5R01 AM08998-08	29,603
HUTCHISON, CLYDE A, III.....	EUKARYOTIC GENE ORGANIZATION.....	5R01 GM21313-02	112,780
INGRAM, DAVID L.....	DIAGNOSIS OF SYSTEMIC INFECTIONS BY ANTIGEN DETECTION.....	2R01 AM12239-03	28,754
IRVIN, J LOCAN.....	CHANGES IN NUCLEAR PROTEINS IN SPERMATOGENESIS.....	5R01 HD05277-05	47,606
ISHAQ, KHALID S.....	POTENTIAL INHIBITORS OF CHROMATIN BOUND PROTEASE.....	1R01 CA20047-01	27,511
JOHNSON, ANDREW M.....	GENETIC ANTIPROTEASE VARIANTS IN DISEASE.....	5R01 AM11286-03	43,674
JOHNSON, ANDREW M.....	INDUCTION OF LIVER DISEASE BY PROTEOLYTIC ENZYMES.....	5R01 AM18540-02	33,559
JOHNSON, CHARLES S, JR.....	QUASI-ELASTIC LIGHT SCATTERING STUDIES ON HEMOGLOBIN S.....	5R01 AM17823-02	32,597
KAFER, ENID R.....	NEURAL AND VENTILATORY RESPONSES TO MECHANICAL LOADS.....	5R01 HL17314-02	21,190
KAFER, ENID R.....	NEURAL AND VENTILATORY RESPONSES TO MECHANICAL LOADS.....	5R01 HL17314-03	26,137
KINGDON, HENRY S.....	CHEMISTRY AND BIOLOGY OF FACTOR IX ACTIVATOR.....	5R01 HL16633-02	61,381
KINGDON, HENRY S.....	BACTERIAL HEPARINASE IN DIAGNOSTIC COAGULATION STUDIES.....	5R01 HL17726-02	34,338
KIRKMAN, HENRY N, JR.....	HEXOSE MONOPHOSPHATE SHUNT IN GENETIC DISEASE.....	5R01 AM16721-04	30,205
KOCH, WILLIAM E.....	DIFFERENTIATION OF EMBRYONIC TOOTH RUDIMENTS IN VITRO.....	5R01 DE02863-09	52,142
KOEHLER, KARL A.....	TRANSITION STATE ANALOG INHIBITORS OF THROMBIN.....	5R01 HL18245-02	44,297
KOKAS, ESZTER B.....	INTESTINAL VILLI MOTILITY: REGULATION AND ROLE.....	3R01 AM04675-14S1	6,203
KRIGMAN, MARTIN R.....	NEUROBIOLOGY OF ENVIRONMENTAL POLLUTANTS.....	5P01 ES01104-02	478,516
KUNO, MOTOTY.....	MONOSYNAPTIC TRANSMISSION IN SPINAL NEURONS.....	5R01 NS10319-05	74,483
KUNO, MOTOTY.....	MONOSYNAPTIC TRANSMISSION IN SPINAL NEURONS.....	5R01 NS10319-06	86,362
LACHENBRUCH, PETER A.....	ROBUSTNESS OF DISCRIMINATION IN EPIDEMIOLOGY.....	1R01 GM22385-01	46,583
LARSH, JOHN E, JR.....	IMMUNOLOGICAL STUDIES IN EXPERIMENTAL TRICHINOSIS.....	5R01 A10671-05	39,847
LARSH, JOHN E, JR.....	PHOSPHOLIPASE LEVELS IN EXPERIMENTAL TRICHINOSIS.....	5R01 A11963-03	23,411
LEE, KUO-HSIUNG.....	STUDIES IN MEDICINAL CHEMISTRY—ANTITUMOR AGENTS.....	5R01 CA12360-06	39,878
LEE, KUO-HSIUNG.....	PLANT ANTITUMOR AGENTS.....	5R01 CA17625-02	32,808
LEEB, IRWIN J.....	THE ROLE OF ETHIONINE IN PAROTID GLAND PROTEIN SYNTHESIS.....	5R23 DE04353-02	11,983
LEINFELDER, KARL F.....	HARDENING OF PRECIOUS METAL ALLOYS.....	5R01 DE04101-02	38,231
LOE, PHILIP R.....	FUNCTIONAL ARCHITECTURE OF SOMATOSENSORY THALAMUS.....	5R01 NS11737-02	41,372
LUCCHESE, JOHN C.....	GENETIC REGULATION IN DROSOPHILA: DOSAGE COMPENSATION.....	5R01 GM15691-08	50,236
LUCCHESE, JOHN C.....	GENETIC REGULATION IN DROSOPHILA: DOSAGE COMPENSATION.....	5R01 GM15691-09	62,456
MARUSHIGE, KEIJI.....	CHROMATIN IN SPERMATOGENESIS AND FERTILIZATION.....	5R01 HD08510-02	49,882
MC ILWAIN, DAVID L.....	BULK ISOLATION OF LARGE SPINAL NEURONS.....	5R01 NS12103-02	15,506
MC MICHAEL, ANTHONY J.....	CASE-CONTROL BLADDER TUMOR MORBIDITY STUDY.....	3R26 CA15950-02S1	10,799
MC MICHAEL, ANTHONY J.....	LEUKEMIA IN RUBBER WORKERS, A CASE-CONTROL STUDY.....	1R01 CA20869-01	26,468
MC MILLAN, CAMPBELL W.....	COLLABORATIVE STUDIES IN THE SOUTHWEST ONCOLOGY GROUP.....	5R10 CA16950-02	56,323
MEISSNER, GERHARD W.....	SARCOPLASMIC RETICULUM FUNCTION AND REASSEMBLY.....	1R01 AM18687-01	51,393
MILLER, AUGUSTUS T, JR.....	CELL ENERGETICS AND AGING.....	5R01 AG00436-05	45,801
MILLER, AUGUSTUS T, JR.....	CELL ENERGETICS AND AGING.....	5R01 AG00436-06	46,076
MORELL, PIERRE.....	ASSEMBLY AND MAINTENANCE OF THE MYELIN SHEATH.....	5R01 NS11615-04	79,883
MUNSON, PAUL L.....	PEPTIDE HORMONES AFFECTING CALCIUM METABOLISM.....	5R01 AM10558-11	149,821
NEWSOME, JAMES F.....	CLINICAL CANCER EDUCATIONAL PROGRAM.....	5R25 CA17973-02	173,247
NEY, ROBERT L.....	ADRENAL CORTICAL PHYSIOLOGY AND PHARMACOLOGY.....	5R01 CA10408-09	55,627
O'TUAMA, LORCAN A.....	REGULATION OF NEURAL DISTRIBUTION OF LEAD.....	1R01 ES01151-01A1	58,371
O'TUAMA, LORCAN A.....	REGULATION OF NEURAL DISTRIBUTION OF LEAD.....	5R01 ES01151-02	63,999
OBRIEST, PAUL A.....	BLOOD PRESSURE CONTROL: RELATION TO BEHAVIORAL STRESS.....	1R01 HL18976-01	77,860
ONTJES, DAVID A.....	CHEMISTRY AND PHYSIOLOGY OF HUMAN THYROCALCITONIN.....	5R01 AM13587-06	31,742



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
ONTJES, DAVID A.....	HORMONE RECEPTORS AND ADENYLATE CYCLASE IN THE ADRENAL.....	1R01 AM19288-01	65,868
ORNSTEIN, PETER A.....	THE ROLE OF REHEARSAL IN CHILDREN'S MEMORY.....	5R01 HD08459-03	32,534
PAGANO, JOSEPH S.....	CANCER CENTER SUPPORT GRANT.....	5P30 CA16086-02	580,499
PAGANO, JOSEPH S.....	DNA VIRUS GENOMES, ONCOGENESIS AND LATENCY.....	1P01 CA19014-01	282,011
PARKER, JOHN C.....	ION TRANSFER AND METABOLISM IN MAMMALIAN RED BLOOD CELLS.....	2R01 AM11356-09	64,722
PARKER, JOHN C.....	ION TRANSFER AND METABOLISM IN MAMMALIAN RED BLOOD CELLS.....	5R01 AM11356-10	68,012
PARR, ROBERT G.....	THE QUANTUM THEORY OF MOLECULAR ISOELECTRONIC CHANGES.....	5R01 GM22028-02	40,822
PARR, ROBERT G.....	THE QUANTUM THEORY OF MOLECULAR ISOELECTRONIC CHANGES.....	5R01 GM22028-03	49,123
PENNISTON, JOHN T.....	VACUOLE FORMATION IN HUMAN ERYTHROCYTES AND GHOSTS.....	5R01 AM17588-02	33,920
PERL, EDWARD R.....	ADEQUATE STIMULI FOR SPINAL AND PROJECTION MECHANISMS.....	5R01 NS10321-05	77,636
PERL, EDWARD R.....	ADEQUATE STIMULI FOR SPINAL AND PROJECTION MECHANISMS.....	5R01 NS10321-06	81,912
PERL, EDWARD R.....	NEURAL BASIS OF EFFECTS PRODUCED BY SPINAL CORD DAMAGE.....	5P01 NS11132-03	236,522
PETRUSZ, PETER.....	FSH-TESTIS INTERACTIONS.....	1R01 HD10306-01	25,231
PIANTADOSI, CLAUDE.....	SYNTHESIS AND STUDY OF HYPO-LIPIDEMIC AGENTS.....	5R01 HL16464-02	30,228
PIANTADOSI, CLAUDE.....	ETHER AND KETONE LIPIDS DURING BRAIN DEVELOPMENT.....	5R01 NS09090-05	24,320
PIMMEL, RUSSELL L.....	NONINVASIVE MEASUREMENT OF AIRWAYS RESISTANCE.....	7R01 HL19118-01	78,119
POWELL, DON W.....	MECHANISMS OF INTESTINAL SECRETION.....	3R01 AM15350-04S1	7,229
POWELL, DON W.....	MECHANISMS OF INTESTINAL SECRETION.....	2R01 AM15350-05A1	49,526
POWELL, DON W.....	WATER AND ELECTROLYTE TRANSPORT IN THE ESOPHAGUS.....	5R01 AM18576-02	31,594
REILLEY, CHARLES N.....	PARAMAGNETIC SHIFTS, T <sub>1</sub> , T <sub>2</sub> : BIORELATED STEREOCHEMISTRY.....	5R01 GM12598-10	46,420
RHEINGOLD, HARRIET L.....	SOCIAL AND EXPLORATORY BEHAVIOR BY THE INFANT.....	5R01 HD01107-13	59,869
RUSTIONI, ALDO.....	NONPRIMARY AFFERENTS TO THE DORSAL COLUMN NUCLEI.....	5R01 NS12440-02	31,851
SAMS, W MITCHELL, JR.....	THE EPIDERMAL PROTEIN OF PHOTO-CONTACT ALLERGY.....	1R01 AM20031-01	43,822
SCHAEFER, EARL S.....	HOSPITAL AND HOME SUPPORT FOR MATERNAL ATTACHMENT.....	5R01 HD09003-02	110,689
SCHWAB, JOHN H.....	BACTERIAL CELL WALLS IN RELAPSING EROISVE SYNOVITIS.....	1P01 AI13464-01	218,236
SCHWAB, JOHN H.....	BACTERIAL CELL WALLS IN PERIODONTAL DISEASE.....	5R01 DE03751-02	46,750
SHEPS, CECIL G.....	CHILD DEVELOPMENT AND MENTAL RETARDATION.....	5P30 HD03110-09	448,381
SHEPS, CECIL G.....	CHILD DEVELOPMENT AND MENTAL RETARDATION.....	5P30 HD03110-10	456,649
SLOWE, CECIL.....	DRUG TAKING FOR HYPERTENSION IN A RURAL COMMUNITY.....	5R01 HL18175-02	126,404
SOBSEY, MARK D.....	VIRUS DETECTION IN SHELLFISH AND THEIR GROWING WATERS.....	1R01 ES01349-01	67,547
SPARLING, PHILIP F.....	ANTIBIOTIC INHIBITORS OF THE RIBOSOME: II.....	5R01 AI09574-06	38,944
SPARLING, PHILIP F.....	GENETICS OF THE GONOCOCCUS: II.....	5R01 AI10646-05	78,517
SPITZNAGEL, JOHN K.....	METABOLIC ASPECTS OF BACTERIAL ECOLOGY IN HOST TISSUE.....	5R01 AI02430-18	77,980
STEINER, ALTON L.....	PHYSIOLOGIC ROLES OF CYCLIC GMP AND CYCLIC AMP.....	5R01 AM17438-03	76,839
STEINER, ALTON L.....	PHYSIOLOGIC ROLES OF CYCLIC GMP AND CYCLIC AMP.....	5R01 AM17438-04	77,550
STUMPF, WALTER E.....	HORMONE RECEPTORS IN THE BRAIN.....	5R01 NS09914-05	74,471
SWIFT, MICHAEL R.....	NEOPLASIA-PREDISPOSING GENES OF MAN.....	5R01 CA14235-04	69,894
SWIFT, MICHAEL R.....	GENES FOR MALIGNANT DISEASE.....	2R01 CA14235-05	74,191
SWIFT, MICHAEL R.....	NEOPLASIA-PREDISPOSING GENES IN CELL CULTURE.....	5R01 CA15207-03	58,969
TALMAGE, ROY V.....	CALCITONIN AND PHOSPHATE.....	5R01 AM14717-06	46,226
TALMAGE, ROY V.....	CALCITONIN AND PHOSPHATE.....	5R01 AM14717-07	48,411
TAYLOR, DUANE F.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05333-15	61,136
THOMAS, COLIN G, JR.....	BIOLOGIC CHARACTERISTICS OF THYROID CANCER.....	5R01 CA01915-23	31,620
TWAROG, ROBERT.....	COMPARATIVE IMMUNOLOGY OF RELATED MORAXELLA PROTEINS.....	5R01 AI11462-03	24,698
TYAN, MARVIN L.....	STUDY OF CELL-MEDIATED IMMUNITY IN AGED ANIMALS.....	5R01 AG00457-02	28,955
TYROLER, HERMAN A.....	STOMACH CANCER IN RUBBER WORKERS—CASE-CONTROL STUDY.....	1R01 CA20868-01	26,468
UNDERWOOD, LOUIS E.....	THE HORMONAL CONTROL OF FETAL GROWTH.....	5R01 HD08299-03	30,557
VAN WYK, JUDSON J.....	ROLE OF ENDOCRINE SECRETIONS IN GROWTH AND DEVELOPMENT.....	5R01 AM01022-20	65,574
VAN WYK, JUDSON J.....	ROLE OF ENDOCRINE SECRETIONS IN GROWTH AND DEVELOPMENT.....	2R01 AM01022-21	88,382
WARREN, DONALD W.....	CLEFT PALATE, MALOCCLUSION AND LINGUAL ARTICULATION.....	1R01 DE04267-01	69,346
WEAKLY, JAMES N.....	MECHANISM OF SPINAL SHOCK.....	5R01 NS11268-03	30,585
WELLS, H BRADLEY.....	EFFECTS OF REPORTING ERRORS ON DEMOGRAPHIC INDICES.....	5R01 HD08754-02	6,037
WERTZ, GAIL T.....	RNA REPLICATION OF VESICULAR STOMATITIS VIRUS.....	5R01 AI12464-02	1,036
WHITSEL, BARRY L.....	SOMATOSENSORY CORTEX: AN INTEGRATIVE STUDY.....	5R01 NS10865-04	39,069
WHITSEL, BARRY L.....	SOMATOSENSORY CORTEX: AN INTEGRATIVE STUDY.....	5R01 NS10865-05	40,750
WHITTEN, DAVID G.....	PHOTOCHEMICAL STUDIES OF MOLECULAR COMPLEXES.....	5R01 GM15238-09	42,109
WILCOX, BENSON R.....	PULMONARY CIRCULATION IN SURGICAL HEART DISEASE.....	5R01 HL11919-08	63,799
WILSON, JOHN E.....	BRAIN FUNCTION AND THE METABOLISM OF MACROMOLECULES.....	5R01 NS07457-10	67,580
WOLFENDEN, RICHARD V.....	CHEMICAL MECHANISMS OF BIOSYNTHESIS.....	5R01 GM18325-06	71,243
YONCE, LLOYD R.....	PULSATILE PRESSURE-FLOW DYNAMICS.....	5R01 HL17628-02	43,548



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
YOUNT, WILLIAM J.....	DIFFERENTIATED FUNCTIONS OF HUMAN LYMPHOBLAST.....	5R01 AI0327-05	78,197
ORGANIZATION TOTAL	173 15,535,026		
<b>CHARLOTTE</b>			
<b>INDIVIDUAL AWARD—PATTERSON, K. DAVID ZIP CODE 28223</b>			
PATTERSON, K. DAVID.....	COLONIAL MEDICINE IN THE NORTHERN GOLD COAST.....	2R01 LM02517-02	5,200
ORGANIZATION TOTAL	1 5,200		
<b>JOHNSON C. SMITH UNIVERSITY ZIP CODE 28216</b>			
SNYDER, RUTH M.....	RESEARCH METHODS FOR PRE- AND PARA-MEDICAL STUDENTS.....	2S06 RR08022-05	77,776
ORGANIZATION TOTAL	1 77,776		
<b>DURHAM</b>			
<b>DUKE UNIVERSITY ZIP CODE 27706</b>			
ADAMS, DOLPH O.....	TUMORICIDAL EFFECTS OF MACROPHAGES: PATHOLOGIC STUDY.....	5R01 CA16784-02	35,170
ADELMAN, MARK R.....	STUDIES OF MOTILITY IN PHYSARUM POLYCEPHALUM.....	2R01 GM20141-04	57,506
AMOS, D BERNARD.....	IMMUNOLOGIC STUDY OF HUMAN HL-A AND MOUSE H-2 ANTIGENS.....	5R01 AI08897-08	287,068
AMOS, D BERNARD.....	CELL MEDIATED IMMUNITY TO ASCITES TUMORS.....	2R01 CA14049-04	194,336
AMOS, D BERNARD.....	CELL MEDIATED IMMUNITY TO ASCITES TUMORS.....	5R01 CA14049-05	182,867
AMOS, D BERNARD.....	STUDIES OF THE IMMUNOGENETICS OF MAN.....	5R01 GM10356-13	277,494
ANDERSON, NELS C.....	HORMONAL AND IONIC BASIS OF UTERINE EXCITATION.....	5R01 HD02742-09	28,057
ANDERSON, NELS C.....	VOLTAGE-CLAMP STUDIES ON SMOOTH MUSCLE.....	5R01 HD08807-02	18,634
ANDERSON, ROBERT W.....	VENTRICULAR DYSFUNCTION AFTER CARDIAC VALVULAR SURGERY.....	5R01 HL18270-02	61,837
ANDERSON, ROBERT W.....	ANALYSIS OF PULMONARY CIRCULATION IN HIGH FLOW STATES.....	1R01 HL18742-01	46,282
ANDERSON, ROBERT W.....	ANALYSIS OF PULMONARY CIRCULATION IN HIGH FLOW STATES.....	5R01 HL18742-02	41,052
ANLYAN, WILLIAM G.....	GENERAL CLINICAL RESEARCH CENTER.....	2M01 RR00030-15	1,055,573
ANLYAN, WILLIAM G.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05405-15	261,305
APPEL, STANLEY H.....	BIOCHEMICAL STUDIES OF SYNAPSE MEMBRANE.....	5R01 NS07872-10	83,601
APPEL, STANLEY H.....	STUDIES IN NEUROMUSCULAR DISEASE.....	5P01 NS12213-02	169,922
ASHLEY, TERRY F.....	INVESTIGATION OF CHROMOSOMAL ORGANIZATION IN NUCLEI.....	1R01 GM23712-01	61,616
BALDWIN, STEPHEN W.....	PHOTOCHEMICAL ANNEALATIONS WITH A-FORMYL KETONES.....	5R01 GM20780-02	32,113
BELL, ROBERT M.....	REGULATION OF MEMBRANE PHOSPHOLIPID SYNTHESIS.....	5R01 GM20015-03	32,412
BIGNER, DARELL D.....	BRAIN TUMORS: VIROLOGICAL AND IMMUNOLOGICAL STUDIES.....	5R01 CA11898-06	79,323
BIGNER, DARELL D.....	IMMUNOCHEMISTRY OF GLIAL BRAIN TUMOR CELLS.....	5R01 CA16451-03	55,264
BLUM, JACOB J.....	CONTROL OF METABOLISM IN TETRAHYMENA.....	5R01 HD01269-14	99,057
BOLOGNESI, DANI P.....	TRANSLATION PRODUCTS OF THE RNA TUMOR VIRUS GENOME.....	5R01 CA15071-03	46,142
BONAR, ROBERT A.....	RNA IN NORMAL AND NEOPLASTIC UROTHELIAL CELLS.....	5R26 CA14930-04	40,944
BONAVENTURA, JOSEPH.....	HEMOGLOBIN SYSTEM.....	3R01 HL15460-03S2	20,177
BONAVENTURA, JOSEPH.....	MOLECULAR ADAPTATION: HEMOGLOBIN SYSTEMS OF FISH.....	2R01 HL15460-04	75,944
BOYNTON, JOHN E.....	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION.....	5R01 GM19427-05	106,701
BRODY, IRWIN A.....	BIOCHEMICAL BASIS OF NEUROMUSCULAR DYSFUNCTION.....	5R01 NS08741-06	49,727
BRUMLEY, GEORGE W.....	LUNG LECITHIN SYNTHESIS.....	5R01 HD06311-05	84,358
BRUMLEY, GEORGE W.....	FETAL LUNG FLUID—CHARACTERIZATION AND LAVAGE EFFECTS.....	5R01 HL16448-03	53,979
BUCKLEY, REBECCA H.....	CLINICAL STUDY OF ASTHMA AND ALLERGIC DISEASES.....	5P50 AI12026-03	51,666
BUCKLEY, REBECCA H.....	INDUCTION AND CHARACTERIZATION OF ENHANCING ANTIBODY.....	5R01 CA16882-05	49,934
BURNS, RICHARD O.....	MOLECULAR MECHANISMS OF BIOLOGICAL CONTROL.....	5R01 GM12551-12	67,823
CASSEDAY, JOHN H.....	NEURAL MECHANISMS RELATED TO BINAURAL HEARING.....	5R01 NS12322-02	37,468
CLAPP, JAMES R.....	MICROPUNCTURE STUDY OF RENAL TUBULAR FUNCTION.....	5R01 AM10844-10	55,447
CLIPPINGER, FRANK W.....	SENSORY FEED-BACK LEG PROSTHESIS FOR CANCER PATIENTS.....	5R18 CA17945-02	55,976
COBB, FREDERICK R.....	REGIONAL BLOOD FLOW AFTER ACUTE MYOCARDIAL INJURY.....	1R01 HL18537-01	47,190
COBB, FREDERICK R.....	REGIONAL BLOOD FLOW AFTER ACUTE MYOCARDIAL INJURY.....	5R01 HL18537-02	55,094
COHEN, HARVEY J.....	SOUTHEASTERN CANCER STUDY GROUP.....	5R10 CA05634-16	47,775
CORLESS, JOSEPH M.....	RETINAL ROD PHOTORECEPTOR MEMBRANE STRUCTURE/FUNCTION.....	1R01 EY01659-01	70,608
CRAPO, JAMES D.....	THE BASIS OF OXYGEN TOLERANCE AND TOXICITY.....	5R01 HL17603-03	112,185
CREASMAN, WILLIAM T.....	GYNCEOLOGIC ONCOLOGY GROUP.....	2R10 CA12534-06	78,274
DAVIS, JAMES N.....	THE ROLE OF OXYGEN IN BRAIN MONAMINE SYNTHESIS.....	1R01 NS13101-01	34,081
DAY, EUGENE D.....	STUDIES OF GLIAL CELL MEMBRANES AND MYELIN.....	5R01 NS10237-05	70,315

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
ERICKSON, CARL J.	ENDOCRINE FACTORS IN THE SOCIAL BEHAVIOR OF ANIMALS.	2R01 HD04482-07	57,022
EVANS, EVAN A.	RBC AND ENDOTHELIAL MEMBRANE MATERIAL CHARACTERISTICS	5R01 HL16711-03	29,170
FELLOWS, ROBERT E, JR.	STRUCTURE & FUNCTION OF GROWTH & LACTOGENIC HORMONES.	2R01 AM12861-08	46,226
FELLOWS, ROBERT E, JR.	STRUCTURE & FUNCTION OF GROWTH & LACTOGENIC HORMONES.	5R01 AM19901-02	69,472
FRIDOVICH, IRWIN	THE BIOLOGICAL FUNCTIONS OF SUPEROXIDE DISMUTASES	2R01 GM10287-14	125,400
FRIDOVICH, IRWIN	THE BASIS OF OXYGEN TOLERANCE AND TOXICITY	5R01 HL17603-02	88,999
FUCKS, JAMES C.	ARTERIAL BYPASS SURGERY: STRUCTURE AND METABOLISM.	5R01 HL17369-02	81,197
GILBERT, DAVID B.	ATHEROSCLEROSIS, AND DIABETES MELLITUS.	1R01 HL20471-01	86,623
GILLHAM, NICHOLAS W	GENETICS AND BIOGENESIS OF CHLOROPLASTS AND MITOCHONDRIA.	1R13 GM23355-01	6,000
GOLDSMITH, LOWELL A.	STRUCTURAL PROTEINS IN GENETIC DEFECTS OF EPIDERMIS.	5R01 AM17253-03	62,656
GOLDSMITH, LOWELL A.	STRUCTURAL PROTEINS IN GENETIC DEFECTS OF EPIDERMIS.	2R01 AM17253-04	59,951
GOLDSMITH, LOWELL A.	FETAL/MATERNAL NUTRITION DETERMINED BY HAIR ANALYSIS.	5R01 AM17977-02	28,174
GOLDSMITH, LOWELL A.	FETAL/MATERNAL NUTRITION DETERMINED BY HAIR ANALYSIS.	2R01 AM17977-03	50,497
GOODING, LINDA R.	A CELL SURFACE EMBRYONIC TUMOR ANTIGEN BOUND TO H-2.	5R01 CA16802-02	42,686
GOODING, LINDA R.	A CELL SURFACE EMBRYONIC TUMOR ANTIGEN BOUND TO H-2.	5R01 CA16802-03	45,008
GREENE, RONALD C.	BIOCHEMISTRY OF SULFONIUM COMPOUNDS	2R01 GM10317-14	46,572
GREENFIELD, JOSEPH C, JR.	INSTANTANEOUS BLOOD FLOW IN THE ASCENDING AORTA.	5R01 HL09711-12	45,157
GREENFIELD, JOSEPH C, JR.	THE DISTRIBUTION OF FLOW IN THE MYOCARDIUM.	1R01 HL18468-01A1	53,147
GUILD, WALTER R	FACTORS AFFECTING INTEGRATION OF TRANSFORMING DNA.	5R01 GM21244-02	26,031
GUILD, WALTER R	PNEUMONOCOCCAL PHAGE AS GENETIC TOOLS	1R01 GM21887-01A1	34,490
HACKEL, DONALD B.	HEART PATHOLOGIC, METABOLIC AND PHYSIOLOGIC STUDIES.	2R01 HL05875-16	65,129
HAGEN, PER-OTTO F.	LIPID BIOSYNTHESIS IN CLOSTRIDIUM BUTYRICUM.	5R01 AI10098-06	52,071
HAGEN, PER-OTTO F.	SURGICAL AND METABOLIC ASPECTS OF VENOUS GRAFTS.	2R01 HL15448-04	122,309
HALL, DWIGHT H.	ORGANIZATION AND EXPRESSION OF THE GENOME OF PHAGE T4.	5R01 GM16306-08	58,884
HALL, JAMES E.	VOLTAGE-DEPENDENT CONDUCTANCE IN MEMBRANES.	5R01 HL17961-02	70,659
HALL, WILLIAM C.	STRUCTURE AND FUNCTION OF THE NEOCORTEX.	5R01 NS09623-06	44,564
HAMMOND, CHARLES B	REGIONAL TROPHOBLASTIC DISEASE CENTER	1R18 CA19272-01	77,853
HANDWERGER, STUART	THE CHEMISTRY AND PHYSIOLOGY OF PLACENTAL LACTOGEN	5R01 HD07447-03	21,093
HEYMAN, ALBERT	CENTER FOR CEREBROVASCULAR RESEARCH	5P50 NS06233-11	215,232
HEYMAN, ALBERT	DETECTION OF TIA IN AN ELDERLY COMMUNITY, LAGUNA HILLS.	1R01 NS13643-01	66,245
HILL, ROBERT L.	STRUCTURE AND FUNCTION OF PROTEINS.	5R01 HL06400-15	145,162
HILL, ROBERT L.	STRUCTURE AND FUNCTION OF PROTEINS.	5R01 HL06400-16	148,252
HYLANDER, WILLIAM L.	STRAIN IN THE FACIAL BONES	1R01 DE04531-01	43,579
JENNINGS, ROBERT B.	MYOCARDIAL CELL INJURY.	5R01 HL18833-02	153,867
JOBSIS, FRANS F.	MYOCARDIAL ENERGETICS AND METABOLISM IN HYPOXIA.	5R01 HL17391-02	67,967
JOBSIS, FRANS F.	MYOCARDIAL ENERGETICS AND METABOLISM IN HYPOXIA.	5R01 HL17391-03	68,308
JOBSON, CHARLES E.	RESPIRATORY HEAT AND WATER LOSS IN NEONATES	1R01 HL19352-01	64,232
JOHNSON, E A.	FUNCTIONS AND MECHANISM OF CELL MEMBRANE ION TRANSPORT.	5P01 HL21517-09	928,947
JOKLIK, WOLFGANG K.	MACROMOLECULAR SYNTHESIS IN VIRUS-INFECTED CELLS	5R01 AI08909-08	209,572
JOKLIK, WOLFGANG K.	MACROMOLECULAR SYNTHESIS IN VIRUS-INFECTED CELLS	5R01 AI08909-09	230,009
JONES, RAYFORD S.	CONTROL OF DUCTULAR AND CANALICULAR BILE PRODUCTION.	2R01 AM16421-03	8,865
JOYNER, RONALD W.	MECHANISM OF CARDIAC ACTION POTENTIAL PROPAGATION.	1R01 HL19273-01	48,287
KAMIN, HENRY	BIOLOGICAL OXIDATIONS IN MITOCHONDRIA AND MICROSOMES.	5R01 GM21226-15	99,004
KATZ, SAMUEL LAWRENCE	SOUTHWEST ONCOLOGY GROUP.	5R10 CA15525-03	31,125
KILLENBERG, PAUL G.	ENZYMATIC BASIS OF BILE ACID CONJUGATION	5R01 AM17786-03	83,232
KIM, SUNG-HOU	CRYSTALLINE COMPLEXES OF RNA WITH SMALL MOLECULES.	5R01 CA15802-03	89,348
KIRSHNER, NORMAN	BIOCHEMISTRY OF THE ADRENAL MEDULLA.	5R01 AM05427-15	54,701
KIRSHNER, NORMAN	BIOGENESIS OF CATECHOLAMINE STORAGE VESICLES	5R01 AM16811-03	60,978
KLINTWORTH, GORDON K.	EXPERIMENTAL APPROACH TO DISEASES OF THE CORNEA.	5R01 EY00146-05	36,584
KREDICH, NICHOLAS M.	REGULATION OF CYSTEINE BIOSYNTHESIS.	5R01 AM12828-08	57,124
KREDICH, NICHOLAS M.	REGULATION OF CYSTEINE BIOSYNTHESIS.	5R01 AM12828-09	57,225
KYLSTRA, JOHANNES A.	INVESTIGATION OF A NEW BREATHING LIQUID.	1R01 HL18529-01	53,526
KYLSTRA, JOHANNES A.	INVESTIGATION OF A NEW BREATHING LIQUID.	5R01 HL18529-02	54,039
LACK, LEON.	PHARMACOLOGY OF INTESTINAL BILE SALT TRANSPORT.	5R01 AM09582-13	68,597
LANG, DAVID J.	PERSISTENT CONGENITAL AND NEONATAL VIRUS INFECTIONS.	5R01 HD04183-06	73,975
LASZLO, JOHN	MECHANISMS OF DRUG INHIBITION OF HUMAN LEUKEMIC CELLS.	5R01 CA08800-10	115,398
LAZARUS, GERALD S.	MECHANISMS OF PROTEOLYSIS IN HUMAN SKIN	5R01 AM19067-02	69,890
LEBOVITZ, HAROLD E.	HORMONES AND INTERMEDIARY METABOLISM.	5R01 AM01324-20	92,713
LEFKOWITZ, ROBERT J.	MOLECULAR PROPERTIES OF CARDIAC ADRENERGIC RECEPTORS.	5R01 HL16037-03	99,064
LEFKOWITZ, ROBERT J.	MOLECULAR PROPERTIES OF CARDIAC ADRENERGIC RECEPTORS.	2R01 HL16037-04	90,319

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
LEIS, JONATHAN P.	TRANSCRIPTION AND TRANSLATION OF TUMOR VIRUS RNA	5R01 CA14787-03	53,633
LEVY, NELSON L.	IMMUNITY TO HUMAN CANCER—FUNCTIONAL COMPONENTS	5R01 CA13070-05	81,766
LYNN, WILLIAM S.	INSULIN ACTION ON THE FAT CELL PLASMA MEMBRANE	5R01 AM16385-03	35,142
LYNN, WILLIAM S.	CHEMOTACTIC CONTROL OF AIRWAY PHAGOCYTES	1R01 HL19806-01	95,635
MADDUX, GEORGE L.	AN INTEGRATED INVESTIGATION OF AGING AND THE AGED	5P01 AG00364-18	446,075
MADDUX, GEORGE L.	CENTER FOR THE STUDY OF AGING AND HUMAN DEVELOPMENT	5P30 AG00371-04	247,946
MAHALEY, MOSES S., JR.	BRAIN TUMOR RESEARCH UNIT: SCREENING MODEL	5R01 CA15093-03	48,246
MANDEL, LAZARO J.	MECHANISMS OF ACTIVE AND PASSIVE SOLUTE TRANSPORT	2R01 AM16024-04	46,007
MANDEL, LAZARO J.	MECHANISMS OF ACTIVE AND PASSIVE SOLUTE TRANSPORT	5R01 AM16024-05	47,229
MANDEL, LAZARO J.	OXIDATIVE METABOLISM AND ACTIVE TRANSPORT	5R01 AM17876-02	50,962
MANDEL, LAZARO J.	OXIDATIVE METABOLISM AND ACTIVE TRANSPORT	5R01 AM17876-03	62,578
MANSBACH, CHARLES M.	CHYLOMICRON LECITHIN: PATHWAYS OF ORIGIN IN INTESTINE	5R01 AM17526-03	39,411
MC CLAY, DAVID R., JR.	CELL SURFACE MOLECULES IN EMBRYONIC CELL ADHESION	1R01 GM22477-01	46,101
MC CORD, JOE M.	SUPEROXIDE AND SUPEROXIDE DISMUTASE IN HUMAN DISEASE	5R01 AM17091-03	45,368
MC ELHANEY, JAMES H.	BIOMECHANICAL STUDIES OF THE LOWER SPINE	1R01 NS13229-01	90,685
MC KEE, PATRICK A.	STRUCTURE-FUNCTION RELATION OF BLOOD CLOTTING PROTEIN	5R01 HL15615-04	101,031
MC KINNEY, JOHN C.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07070-11	65,716
MENDELL, LORNE M.	MECHANISMS OF PLASTICITY IN NEURONAL CONNECTIONS	5R01 NS08411-08	47,347
MENZEL, DANIEL B.	ROLE OF VITAMIN E AND LIPIDS IN LUNG TOXICITY	2R01 ES00798-04	61,254
MENZEL, DANIEL B.	ROLE OF VITAMIN E AND LIPIDS IN LUNG TOXICITY	5R01 ES00798-05	60,629
MENZEL, DANIEL B.	ROLE OF INFLAMMATORY HORMONES IN CHRONIC LUNG DISEASE	5R01 HL16264-03	60,394
METZGAR, RICHARD S.	IMMUNOLOGICAL STUDIES OF PRIMATE MEMBRANE ANTIGENS	5R01 AM08054-13	69,955
METZGAR, RICHARD S.	HUMAN LEUKEMIA ASSOCIATED ANTIGENS	5R01 CA08975-10	120,011
MICKEY, DON D.	DETECTION OF C-TYPE VIRAL ANTIGENS IN HUMAN BLADDER	5R26 CA15292-04	48,688
MICKEY, DON D.	DETECTION OF RNA TUMOR VIRAL ANTIGENS IN HUMAN PROSTATE	1R26 CA19840-01	74,211
MILLER, DONALD S.	IMMUNOTHERAPY AND IMMUNODIAGNOSIS OF HUMAN LEUKEMIA	5R01 CA16320-02	62,938
MILLER, DONALD S.	IMMUNOTHERAPY AND IMMUNODIAGNOSIS OF HUMAN LEUKEMIA	5R01 CA16320-03	63,211
MITCHELL, THOMAS G.	PATHOGENICITY OF CRYPTOCOCCOSIS	1R01 AI13088-01	54,579
MODRICH, PAUL L.	ENZYMATIC BASIS OF TYPE II RESTRICTION AND MODIFICATION	7R01 GM23719-01	57,207
MOORE, JOHN W.	PHYSIOLOGY OF EXCITABLE MEMBRANES	2R01 NS03437-15	87,255
MOORE, JOHN W.	PHYSIOLOGY OF EXCITABLE MEMBRANES	5R01 NS03437-16	102,490
MOORE, JOHN W.	COMPUTER METHODS FOR PHYSIOLOGICAL PROBLEMS	5R01 NS11613-02	66,208
MOSES, MONTROSE J.	CHROMOSOME ANALYSIS IN LEMUR HYBRIDS	1R01 GM23047-01	50,153
NARAHASHI, TOSHIO	MODE OF ACTION OF INSECTICIDES: ELECTROPHYSIOLOGICAL	5R01 NS06855-10	102,282
NARAHASHI, TOSHIO	CELLULAR PHARMACOLOGY OF NEUROMUSCULAR TRANSMISSION	2R01 NS09272-06A1	54,824
NARAHASHI, TOSHIO	CELLULAR NEUROPHARMACOLOGICAL STUDY OF DRUG ACTION	2R01 NS10823-04	122,068
NEWELL, JOSEPHINE E.	BREAST EXAMINATION AND BREAST SELF EXAMINATION	1R18 CA19601-01	43,142
NICKLAS, R. BRUCE	ANALYSIS AND CONTROL OF CHROMOSOME MOVEMENT	2R01 GM13745-11	55,288
PAULSON, DAVID F.	BIOCHEMISTRY OF NORMAL AND ABNORMAL RENAL GROWTH	2R01 AM15756-04A1	47,007
PAULSON, DAVID F.	VIRUSES AND VIRUS-LIKE PARTICLES IN PROSTATIC TUMORS	2R26 CA15417-03	42,756
PAULSON, DAVID F.	TISSUE CULTURE OF MAMMALIAN UROTHELIUM	5R26 CA15972-03	42,688
PINNELL, SHELDON R.	THE COLLAGEN AND ELASTIN OF CONNECTIVE TISSUE DISEASE	5R01 AM17128-03	38,417
PINNELL, SHELDON R.	THE COLLAGEN AND ELASTIN OF CONNECTIVE TISSUE DISEASE	5R01 AM17128-04	35,940
PINNELL, SHELDON R.	CHARACTERIZATION OF HEART VALVE COLLAGEN	1R01 HL18593-01	60,919
PORTER, NED A.	PEROXY RADICALS TO PROSTAGLANDINS IN VESSELS & LUNG	5R01 HL17921-02	84,779
QUARFORDT, STEVEN H.	APOPROTEINS OF HUMAN TRIGLYCERIDE RICH LIPOPROTEINS	5R01 HL14313-05	57,771
QUARFORDT, STEVEN H.	APOPROTEINS OF HUMAN TRIGLYCERIDE RICH LIPOPROTEINS	5R01 HL14313-06	68,126
QUIN, LOUIS D.	ORGANOPHOSPHOROUS COMPOUNDS FOR ANTICANCER SCREENING	5R01 CA05507-16	41,441
RAJAGOPALAN, K. V.	STRUCTURE AND FUNCTION OF ENZYMES—ROLE OF METALS	5R01 GM00091-31	101,595
REEDY, MICHAEL K.	MYOFIBRILLAR FINE STRUCTURE IN STRIATED MUSCLE	5R01 AM14317-07	97,688
REYNOLDS, JACQUELINE A.	INTERACTIONS OF STEROLS IN BIOLOGICAL SYSTEMS	2R01 HL14882-04	58,391
REYNOLDS, JACQUELINE A.	INTERACTIONS OF STEROLS IN BIOLOGICAL SYSTEMS	5R01 HL14882-05	55,141
RICHARDSON, DAVID C.	CRYSTALLOGRAPHIC ANALYSIS OF PROTEIN STRUCTURES	5R01 GM15000-07	65,095
ROBERTSON, J. DAVID	BIOPHYSICAL AND BIOCHEMICAL STUDIES OF CELLULAR MEMBRANE	5P01 NS10299-05	377,216
ROBINSON, ROSCOE R.	THE KIDNEY IN HEALTH AND DISEASE	5P01 AM17195-03	210,968
ROSENTHAL, MYRON	IN SITU STUDIES OF DRUG ACTIONS ON CNS METABOLISM	5R01 NS10384-05	55,716
ROSSE, WENDELL F.	IMMUNOLOGICAL LYSIS IN NEOPLASTIC DISEASE	5R01 CA10267-10	75,394
SABISTON, DAVID C., JR.	CORONARY INSUFFICIENCY AND MYOCARDIAL REVASCULARIZATION	5R01 HL09315-13	105,129
SAGE, HARVEY J.	SPECIFICITY OF PHYTOHEMAGGLUTININS AND ANTIBODIES	5R01 AM06710-08	28,494
SALZANO, JOHN V.	REGULATION OF RESPIRATION ACTIVITY	5R01 HL13888-14	41,175



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
SANDERS, AARON P.	LUNG O2 TOXICITY: METABOLISM, PATHOLOGY AND RECOVERY	5R01 HL16758-03	76,411
SAVITT, TODD L.	THE HEALTH CARE OF BLACKS IN THE ANTE-BELLUM SOUTH	5R01 LM02477-02	24,013
SCHIFFMAN, SUSAN S.	GUSTATORY AND OLFACTORY QUALITY CHANGES WITH AGE	8R01 AG00443-04	54,555
SCHMIDT-NIELSEN, KNUIT	RESPIRATION, CIRCULATION, & HEAT REGULATION IN EXERCISE	2R01 HL02228-21	130,188
SCHMIDT-NIELSEN, KNUIT	RESPIRATION, CIRCULATION, & HEAT REGULATION IN EXERCISE	5R01 HL02228-22	137,743
SCOTT, DAVID W.	MECHANISM OF IMMUNOLOGIC TOLERANCE IN VIVO AND IN VITRO	5R01 AI10716-05	75,931
SEALY, WILL C.	CARDIOVASCULAR AND PULMONARY PROBLEMS	5R01 HL01782-21	88,985
SEALY, WILL C.	EXPANDING THE ROLE OF SURGERY OF ATRIAL DYSRHYTHMIAS	5R01 HL13920-05	64,684
SHINGLETON, WILLIAM W.	GENERAL CLINICAL CANCER RESEARCH CENTER	2P01 CA11265-07	678,894
SHINGLETON, WILLIAM W.	CENTRAL ONCOLOGY GROUP	3R10 CA12290-05S1	39,812
SHINGLETON, WILLIAM W.	COMPREHENSIVE CANCER CENTER SUPPORT GRANT	5P30 CA14236-03	1,031,408
SHINGLETON, WILLIAM W.	COMPREHENSIVE CANCER CENTER SUPPORT GRANT	2P30 CA14236-04	1,454,985
SHINGLETON, WILLIAM W.	CANCER CONTROL DEVELOPMENTAL GRANT	3R18 CA16400-01S1	113,284
SHINGLETON, WILLIAM W.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA17987-02	128,283
SHINGLETON, WILLIAM W.	BASIC CANCER RESEARCH SYMPOSIUM GRANT	1R13 CA20682-01	7,086
SHRIVASTAV, BRU B.	EFFECTS OF NEUROACTIVE AGENTS ON NERVE CONDUCTION	5R01 GM21724-03	55,625
SIEGEL, LEWIS M.	STUDIES ON SELECTED METALLOFLAVOPROTEINS	5R01 AM13460-05	35,983
SIEGEL, LEWIS M.	STUDIES ON SELECTED METALLOFLAVOPROTEINS	5R01 AM13460-06	34,711
SILBERMAN, HAROLD R.	COOPERATIVE STUDIES IN CANCER THERAPY	5R10 CA03177-20	51,213
SLOTKIN, THEODORE A.	DRUGS AND DEVELOPMENT OF ADRENERGIC NERVOUS SYSTEM	1R01 HD09713-01	36,938
SMITH, RALPH E.	BIOCHEMISTRY OF RNA TUMOR VIRUS REPLICATION	5R01 CA12323-06	60,285
SNYDERMAN, RALPH	HUMORAL AND CELLULAR MEDIATORS OF INFLAMMATION	2R01 DE03738-04	75,511
SOMJEN, GEORGE G.	ASTROCYTOMAS: ELECTRIC AND METABOLIC PROPERTIES	1R01 CA20862-01	13,123
SOMJEN, GEORGE G.	CELLULAR SEIZURE MECHANISMS	5R01 NS11933-02	64,282
SOMJEN, GEORGE G.	CELLULAR SEIZURE MECHANISMS	5R01 NS11933-03	51,499
SOMMER, JOACHIM R.	STRUCTURE-FUNCTION CORRELATION IN THE ATRIUM	5R01 HL12486-08	89,638
SOMMER, JOACHIM R.	COMPARATIVE STEREOLOGY OF THE MYOCARDIUM	5R01 HL15888-03	47,328
SPACH, MADISON S.	BIOPHYSICAL STUDIES IN PEDIATRIC CARDIOLOGY	5P01 HL11307-10	507,028
STEINMAN, HOWARD M.	STRUCTURE AND FUNCTION OF SUPEROXIDE DISMUTASES	1R01 GM22376-01	61,248
STICKEL, DELFORD L.	CLINICAL HOMOTRANSPLANTATION OF TISSUES AND ORGANS	5P01 AM13084-12	259,973
STRAUSS, HAROLD C.	STUDY OF ISCHEMIC HEART DISEASE	5P50 HL17670-02	1,125,374
STRAUSS, HAROLD C.	CHARACTERIZATION OF CARDIAC PACEMAKER ACTIVITY	1R01 HL19216-01	93,073
SYLVIA, AVIS L.	BRAIN FUNCTION AND OXIDATIVE METABOLISM DURING AGING	1R01 AG00517-01	58,968
TANFORD, CHARLES	PROTEIN INTERACTIONS AND BIOLOGICAL FUNCTION	5R01 AM04576-16	137,675
TANFORD, CHARLES	PROTEIN INTERACTIONS AND BIOLOGICAL FUNCTION	2R01 AM04576-17	226,168
THURSTONE, FREDRICK L.	DYNAMIC CARDIOVASCULAR MEASUREMENT USING ULTRASOUND	2R01 HL12715-07	197,656
THURSTONE, FREDRICK L.	DYNAMIC CARDIOVASCULAR MEASUREMENT USING ULTRASOUND	5R01 HL12715-08	166,084
TISHER, C CRAIG	WATER AND ELECTROLYTE MOVEMENT IN RENAL TUBULES	5R01 AM13845-07	179,085
TOURIAN, ARA Y.	PHENYLALANINE HYDROXYLASE: PKU DETECTION	5R01 AM14834-06	47,527
VANAMAN, THOMAS C.	STRUCTURE AND FUNCTION OF ONCORNAVIRUS POLYPEPTIDES	1R01 CA18721-01	77,189
VANAMAN, THOMAS C.	THE ROLE OF BRAIN SPECIFIC PROTEINS IN NERVE FUNCTION	5R01 NS10123-06	64,548
VERGARA, JUAN A.	ULTRASTRUCTURE OF NORMAL AND NEOPLASTIC UROTHELIUM	5R26 CA14926-04	39,397
VOGEL, F STEPHEN	ANTITUMOR ACTIONS OF QUINONES THAT INDUCE CRYPTOBIOSIS	1R01 CA19013-01	72,802
WALLACE, ANDREW G.	PHYSIOLOGICAL BASIS OF ARRHYTHMIAS AND THEIR THERAPY	3R01 HL15190-03S1	58,962
WALLACE, ANDREW G.	PHYSIOLOGICAL BASIS OF ARRHYTHMIAS AND THEIR THERAPY	2R01 HL15190-04	53,092
WALLACE, ANDREW G.	PHYSIOLOGICAL BASIS OF ARRHYTHMIAS AND THEIR THERAPY	5R01 HL15190-05	93,559
WARD, FRANCES E.	HISTOCOMPATIBILITY ANTIGENS IN A BLACK POPULATION	5R01 AI12155-03	27,743
WEBSTER, ROBERT E.	SYNTHESIS AND INTERACTION OF SPECIFIC MEMBRANE PROTEINS	5R01 GM18305-05	51,143
WELLS, SAMUEL A.	FAMILIAL POLYPOSIS: A CLINICAL AND IMMUNOLOGICAL STUDY	5R26 CA16724-03	83,108
WILLIAMS, REDFORD B, JR	PSYCHOSOCIAL FACTORS AND OUTCOME IN CORONARY DISEASE	1R01 HL18589-01	31,425
WOLFE, WALTER G.	RECOVERY OF LUNG FUNCTION FOLLOWING OXYGEN POISONING	5R01 HL15877-03	31,974
WOODBURY, MAX A.	QUANTITATIVE DESCRIPTIONS OF DISEASE	5R01 GM16725-08	84,026
WYNGAARDEN, JAMES B.	PURINE METABOLISM IN GOUT	5R01 AM12413-09	105,516
ZIGLER, J SAMUEL, JR.	DEVELOPMENTAL STUDIES OF BETA-CRYSTALLIN RE CATARACTS	5R01 EY01607-02	58,112
ZWEERINK, HENDRIK J.	REPLICATION AND ENCAPSIDATION OF REOVIRUS RNA	5R01 AI10132-06	57,069
ORGANIZATION TOTAL	218	23,386,136	
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—NORTH CAROLINA CENTRAL UNIVERSITY ZIP CODE 27707</b>			
PATILLO, WALTER H, JR.	MINORITY SCHOOLS BIOMEDICAL SUPPORT PROGRAM	5S06 RR08049-05	92,717
ORGANIZATION TOTAL	1	92,717	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
<b>VETERANS ADMINISTRATION HOSPITAL      ZIP CODE 27705</b>			
PAULSON, DAVID F.....	URO-ONCOLOGY RESEARCH GROUP.....	5R10 CA14940-03	362,881
ORGANIZATION TOTAL	1	362,881	
<b>ELIZABETH CITY</b>			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—ELIZABETH CITY STATE UNIVERSITY      ZIP CODE 27909</b>			
KHAN, SEKENDER A.....	RESEARCH IMPROVEMENT AND DEVELOPMENT (RIAD).....	5S06 RR08087-02	73,036
KHAN, SEKENDER A.....	RESEARCH IMPROVEMENT AND DEVELOPMENT (RIAD).....	5S06 RR08087-03	71,439
ORGANIZATION TOTAL	2	144,475	
<b>GREENSBORO</b>			
<b>BENNETT COLLEGE      ZIP CODE 27420</b>			
SAYLES, J HENRY.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08028-05	25,194
ORGANIZATION TOTAL	1	25,194	
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY      ZIP CODE 27411</b>			
BENNETT, RICHARD, JR.....	DEVELOPMENT OF A PROGRAM IN BIOMEDICAL RESEARCH.....	5S06 RR08019-05	107,632
ORGANIZATION TOTAL	1	107,632	
<b>GREENVILLE</b>			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—EAST CAROLINA UNIVERSITY      ZIP CODE 27834</b>			
BURDEN, HUBERT W.....	OVARIAN NERVES AND REPRODUCTIVE FUNCTION.....	5R01 HD06899-02	38,339
DOHM, GERALD L.....	CONTROL OF MUSCLE PROTEIN METABOLISM DURING EXERCISE.....	1R01 AM19116-01	73,037
LIEBERMAN, EDWARD M.....	METABOLIC CONTROL OF WATER AND ION FLOW IN AXONS.....	7R01 NS13531-01	5,300
MARKS, RICHARD H.....	STRUCTURE-FUNCTION RELATIONSHIPS IN COPPER PROTEINS.....	7R01 GM23935-01	18,232
ORGANIZATION TOTAL	4	134,908	
<b>RALEIGH</b>			
<b>NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES      ZIP CODE 27611</b>			
GOTTLIEB, GILBERT.....	SENSORY AND PERCEPTUAL DETERMINANTS OF IMPRINTING.....	5R01 HD00878-15	21,182
ORGANIZATION TOTAL	1	21,182	
<b>SHAW UNIVERSITY      ZIP CODE 27602</b>			
GHOSH, KALYAN K.....	BIOMEDICAL RESEARCH AND RESEARCH TRAINING.....	5S06 RR08001-05	58,670
ORGANIZATION TOTAL	1	58,670	
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—NORTH CAROLINA STATE UNIVERSITY AT RALEIGH      ZIP CODE 27607</b>			
BORDNER, JON.....	STRUCTURES OF COMPOUNDS OF REPRODUCTIVE INTEREST.....	5R01 HD09548-02	22,857
COCKERHAM, C CLARK.....	QUANTITATIVE GENETICS RESEARCH PROGRAM.....	2P01 GM11546-13	461,018
DONALDSON, WILLIAM E.....	EMBRYONIC FATTY ACID METABOLISM.....	2R01 HD02887-07	22,814
DONALDSON, WILLIAM E.....	EMBRYONIC FATTY ACID METABOLISM.....	5R01 HD02887-08	20,973
DROESSLER, EARL G.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07071-11	71,265
GUTHRIE, FRANK E.....	MECHANISMS OF PESTICIDE ACTION.....	5P01 ES00044-12	274,200
KNIGHT, KENNETH L.....	DEVELOPMENT OF MOSQUITO TAXONOMIC GLOSSARY.....	1R01 LM02787-01	26,142
LEVERE, THOMAS E.....	THE NATURE OF BEHAVIORAL RECOVERY AFTER BRAIN DAMAGE.....	5R01 NS12459-02	18,815
LONGMUIR, IAN S.....	GRADIENT AND TRANSPORT OF OXYGEN IN TISSUE AND ORGANS.....	5R01 HL16828-02	65,544
LONGMUIR, IAN S.....	GRADIENT AND TRANSPORT OF OXYGEN IN TISSUE AND ORGANS.....	5R01 HL16828-03	52,726
NELSON, LARRY A.....	IX INTERNATIONAL BIOMETRIC CONFERENCE.....	1R13 CA20114-01	20,000
NELSON, LARRY A.....	IX INTERNATIONAL BIOMETRIC CONFERENCE.....	1R13 ES01525-01	10,000
NELSON, LARRY A.....	IX INTERNATIONAL BIOMETRIC CONFERENCE.....	1R13 EY01902-01	2,000
NELSON, LARRY A.....	IX INTERNATIONAL BIOMETRIC CONFERENCE.....	1R13 GM23724-01	2,000
NELSON, LARRY A.....	IX INTERNATIONAL BIOMETRIC CONFERENCE.....	1R13 HL19388-01	20,000
RICHMOND, ROLLIN C.....	ADAPTIVE SIGNIFICANCE OF ALLOZYME VARIATION.....	7R01 GM23352-01	47,377
TOVE, SAMUEL B.....	METABOLISM OF UNSATURATED FATTY ACIDS.....	5R01 AM02483-18	64,990

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
TOVE, SAMUEL B.....	METABOLISM OF UNSATURATED FATTY ACIDS.....	2R01 AM02483-19	80,166
TOVE, SAMUEL B.....	COPPER PROTEINS AND CU INTERACTIONS IN METABOLISM.....	3R01 AM13055-07S1	4,145
ORGANIZATION TOTAL	19 1,287,032		
<b>RESEARCH TRIANGLE PARK</b>			
<b>RESEARCH TRIANGLE INSTITUTE ZIP CODE 27709</b>			
COOK, CLARENCE E.....	SYNTHESIS OF STRIGOL, A POTENT PLANT LACTONE.....	5R01 GM19630-02	25,769
COOK, CLARENCE E.....	STEREOSELECTIVE RIA FOR ANALYSIS IN PHARMACOLOGY.....	1R01 GM23197-01	64,820
PELLIZZARI, EDO D.....	GAS CHROMATOGRAPHIC TECHNIQUES FOR PHARMACOLOGY.....	1R01 GM23262-01	37,171
ROSENTHAL, DAVID.....	MASS SPECTROMETRY CENTER FOR RESEARCH TRIANGLE REGION.....	2P41 RR00330-09	85,745
WALL, MONROE E.....	SYNTHESIS OF PLANT ANTI-TUMOR AGENTS AND ANALOGS.....	1R01 CA20050-01	37,823
ORGANIZATION TOTAL	5 251,328		
<b>WILMINGTON</b>			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT WILMINGTON ZIP CODE 28401</b>			
LUNDEEN, CARL V.....	NITROGEN METABOLISM AND THE PLANT NEOPLASTIC STATE.....	5R01 CA15917-03	25,272
ORGANIZATION TOTAL	1 25,272		
<b>WINSTON-SALEM</b>			
<b>UNIVERSITY OF NORTH CAROLINA SYSTEM—WINSTON-SALEM STATE UNIVERSITY ZIP CODE 27102</b>			
ATKINSON, WILVERIA B.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08040-05	58,586
ORGANIZATION TOTAL	1 58,586		
<b>WAKE FOREST UNIVERSITY ZIP CODE 27109</b>			
ABCTON, JEAN D.....	EFFECT OF NO2-INDUCED LESIONS IN LUNG MACROPHAGES.....	5R01 ES00839-03	33,852
BO, WALTER J.....	ESTROGEN-LIKE EFFECT OF THE IUD ON THE UTERUS.....	5R01 HD06210-05	45,041
BRODISH, ALVIN.....	REGULATION OF ANTERIOR PITUITARY SECRETIONS.....	7R01 AM19156-01	33,613
BRODISH, ALVIN.....	REGULATION OF ANTERIOR PITUITARY SECRETIONS.....	5R01 AM19156-02	48,082
BUCKALEW, VARDAMAN M, JR.....	STUDIES OF A HUMORAL INHIBITOR OF SODIUM TRANSPORT.....	2R01 AM17341-03	56,909
CLARKSON, THOMAS B.....	ARTERIOSCLEROSIS RESEARCH CENTER.....	3P50 HL14164-05S1	508,580
CLARKSON, THOMAS B.....	A RESOURCE FOR THE STUDY OF NONHUMAN PRIMATES.....	5P40 RR00919-02	154,596
COWGILL, ROBERT W.....	THE FUNCTIONS OF PARAMYOSIN IN MUSCLE CONTRACTION.....	5R01 AM18411-02	37,154
DE CHATELET, LAWRENCE R.....	PATHOPHYSIOLOGY AND METABOLISM OF THE LEUKOCYTE.....	5R01 AI10732-05	49,990
DODGE, WILLIAM H.....	NORMAL AND LEUKEMIC GRANULOPOIESIS IN THE CHICKEN.....	7R01 CA19275-01	32,801
DODGE, WILLIAM H.....	NORMAL AND LEUKEMIC GRANULOPOIESIS IN THE CHICKEN.....	5R01 CA19275-02	31,898
DREXLER, HENRY.....	HOST-CONTROLLED VARIATION AND TRANSDUCTION WITH T1.....	5R01 AI07107-09	23,893
EVANS, DONALD L.....	IMMUNOBIOLOGICAL PROPERTIES OF EMBRYONIC ANTIGENS.....	1R01 CA19358-01	49,458
GREEN, HAROLD D.....	VASOMOTOR TONE AND VENOUS RETURN.....	5R01 HL00487-27	171,997
GREISS, FRANK C, JR.....	UTERINE BLOOD FLOW AND CHANGES IN PREGNANCY.....	5R01 HL03941-17	72,102
GROVES, DAVID L.....	REGULATION OF THE ANTIBODY RESPONSE.....	5R01 AI12415-02	57,343
HERNDON, C NASH.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00336-10	184,006
HERNDON, C NASH.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05404-15	171,631
HUTCHINS, PHILLIP M.....	MICROVASCULAR RESPONSES IN HYPERTENSION.....	5R01 HL13936-05	46,425
KREGER, ARNOLD S.....	PATHOGENESIS OF BACTERIAL INFECTIONS OF THE CORNEA.....	2R01 EY01104-04	35,857
KUCERA, LOUIS S.....	VIRUS ASSOCIATED NEOPLASMS.....	5R01 CA12382-05	54,834
KUHN, RAYMOND E.....	IMMUNOCYTOTOXIC RESPONSES IN CHAGAS' DISEASE.....	1R01 AI13128-01	36,844
LEVITT, MELVIN.....	SOMATOSENSORY SYSTEMS: CENTRAL PAIN.....	5R01 NS11921-02	34,546
LEVITT, MELVIN.....	SOMATOSENSORY SYSTEMS: CENTRAL PAIN.....	5R01 NS111921-03	32,827
LORENTZ, WILLIAM B, JR.....	MECHANISM OF CYCLIC AMP EFFECT ON RENAL TRANSPORT.....	5R01 AM17855-03	43,076
MC CALL, CHARLES E.....	FUNCTIONAL & METABOLIC PROPERTIES OF TOXIC NEUTROPHILS.....	5R01 AI09169-06	21,982
MC CORMICK, JAMES G.....	DEAFNESS AND ATHEROSCLEROSIS.....	5R01 NS12013-02	76,445
MILLER, INGLIS J, JR.....	MECHANISMS OF TASTE RECEPTOR INTERACTION.....	5R01 NS10389-05	26,413
MYRVIK, QUENTIN N.....	INTERACTION OF ALVEOLAR MACROPHAGES AND MYCOBACTERIA.....	5R01 AI05663-13	28,680
MYRVIK, QUENTIN N.....	PATHOBIOLOGIC AND HOST DEFENSE REACTIONS IN THE LUNG.....	5P01 HL16769-02	198,016
MYRVIK, QUENTIN N.....	PATHOBIOLOGIC AND HOST DEFENSE REACTIONS IN THE LUNG.....	5P01 HL16769-03	228,445
RAPELA, CARLOS E.....	CEREBRAL BLOOD FLOW, HUMORAL, DRUG, NERVOUS CONTROL.....	5R01 NS11953-02	51,962

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>NORTH CAROLINA—Continued</b>			
RAPELA, CARLOS E.....	CEREBRAL BLOOD FLOW, HUMORAL, DRUG, NERVOUS CONTROL.....	5R01 NS11953-03	53,870
REMY, CHARLES N.....	CHARACTERIZATION OF RIBOSOMAL RNA METHYLASES.....	5R01 CA11854-06	32,717
RESNICK, MARTIN I.....	ULTRASONOGRAPHY IN THE EVALUATION OF PROSTATIC CANCER.....	1R26 CA20118-01	34,965
RICHARDSON, STEPHEN H.....	BIOLOGY OF V. CHOLERA/E. COLI VIRULENCE.....	5R22 AI07772-10	48,170
SKINNER, NEWMAN S, JR.....	REGULATION OF SKELETAL MUSCLE BLOOD FLOW.....	5R01 HL15562-04	43,362
SPURR, CHARLES L.....	ACUTE LEUKEMIA GROUP B.....	5R10 CA03927-19	105,128
SPURR, CHARLES L.....	LEUKEMIA CENTER (PLATELET) PROGRAM - ALGB.....	5R01 CA11845-18	106,129
SPURR, CHARLES L.....	CANCER CENTER SUPPORT GRANT (SPECIALIZED).....	3P01 CA12197-04S1	88,064
SPURR, CHARLES L.....	MULTIDISCIPLINARY ONCOLOGY RESEARCH CENTER.....	2P30 CA12197-05	595,513
SPURR, CHARLES L.....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA19439-01	158,201
ST CLAIR, RICHARD W.....	ATHEROSCLEROSIS THERAPY AND CHOLELITHIASIS.....	5R01 AM17369-03	66,582
TOOLE, JAMES F.....	CEREBROVASCULAR RESEARCH CENTER.....	2P50 NS06655-11	668,060
TURNER, JAMES E.....	REGENERATIVE REPAIR IN THE CENTRAL NERVOUS SYSTEM.....	5R01 NS12070-02	41,256
WAITE, B MOSELEY.....	METABOLISM AND FUNCTION OF MEMBRANE PHOSPHOLIPIDS.....	5R01 AM17199-09	66,874
WAITE, B MOSELEY.....	LYSOPHOSPHOLIPID METABOLISM OF NEOPLASIAS.....	5R01 CA14318-03	33,521
WITCOWSKI, RICHARD L.....	ULTRASONIC ENHANCEMENT OF CANCER RADIOTHERAPY.....	5R01 CA17581-02	43,171
ORGANIZATION TOTAL	48	4,864,881	
STATE TOTAL	480	46,507,819	
<b>NORTH DAKOTA</b>			
<b>BELCOURT</b>			
<b>TURTLE MOUNTAIN BAND OF CHIPPEWA TRIBAL COUNCIL ZIP CODE 58316</b>			
GAILFUS, PATRICIA.....	HEAVY DRINKING OF TURTLE MOUNTAIN INDIANS DETERMINATION.....	3S06 RR08126-02S1	25,737
ORGANIZATION TOTAL	1	25,737	
<b>FARGO</b>			
<b>NORTH DAKOTA STATE UNIVERSITY ZIP CODE 58103</b>			
BEATTY, WILLIAM W.....	SEX DIFFERENCES IN INSTRUMENTAL BEHAVIOR.....	5R01 HD08206-02	20,119
ORGANIZATION TOTAL	1	20,119	
<b>GRAND FORKS</b>			
<b>UNIVERSITY OF NORTH DAKOTA ZIP CODE 58201</b>			
DAVIS, RICHARD E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05407-15	23,665
DUERRE, JOHN A.....	BRAIN HISTONE METHYLASES.....	5R01 NS09725-05	29,991
LEE, YA P.....	GLYCEROL-3P DEHYDROGENASES IN CARDIOVASCULAR SYSTEM.....	5R01 HL17432-02	28,520
LOW, FRANK N.....	FINE STRUCTURAL LINING OF THE SUBARACHNOID SPACE.....	5R01 NS09363-06	55,225
LOW, FRANK N.....	MICROAPPENDAGES OF THE PLASMALEMMA.....	5R01 NS12106-02	36,149
MYRON, DUANE R.....	BIOLOGICAL FUNCTION OF VANADIUM.....	1R01 HL19530-01	22,012
NORDLIE, ROBERT C.....	LIVER PYROPHOSPHATE-PHOSPHOTRANSFERASE ACTIVITIES.....	5R01 AM07141-13	54,345
NORDLIE, ROBERT C.....	LIVER PYROPHOSPHATE-PHOSPHOTRANSFERASE ACTIVITIES.....	2R01 AM07141-14	89,412
RAY, PAUL D.....	HORMONE AND DIET CONTROL OF GLUCONEOGENESIS.....	5R01 AM12705-08	31,200
STENBERG, VIRGIL I.....	ALKALOID CHEMISTRY.....	5R01 GM21590-02	38,503
ORGANIZATION TOTAL	10	409,022	
STATE TOTAL	12	454,878	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO</b>			
<b>AKRON</b>			
<b>CHILDREN'S HOSPITAL OF AKRON</b>	<b>ZIP CODE 44308</b>		
IGEL, HOWARD	CELL CULTURE AUTOGRAPHING OF BURNED & TRAUMATIZED SKIN	5R01 GM21929-02	76,967
ORGANIZATION TOTAL	1 76,967		
<b>UNIVERSITY OF AKRON</b>	<b>ZIP CODE 44325</b>		
CHU, MAMERTO L.	ACOUSTICAL PATTERN RECOGNITION OF KNEE JOINT DISEASES	5R01 AM15697-04	47,426
LEDINKO, NADA	EFFECTS OF TUMORIGENIC ADENOVIRUS ON CELLS	5R01 CA13231-05	76,679
ORGANIZATION TOTAL	2 124,105		
<b>ATHENS</b>			
<b>OHIO UNIVERSITY</b>	<b>ZIP CODE 45701</b>		
JOLLIICK, JOSEPH D.	GENETICS OF DIFFERENTIATION IN CAULOBACTER	7R01 GM24015-01	19,081
ROMOSER, WILLIAM S.	THE REGULATION OF BUOYANCY IN MOSQUITO PUPAE	5R01 AI12641-02	17,778
SOLTOW, LEE C.	CHILDREN AND INHERITANCE OF WEALTH	2R01 HD07619-03	28,692
SULLIVAN, PAUL D.	CATION RADICALS IN BENZOPYRENE-12 AND RELATED SYSTEMS	5R01 CA16614-02	26,962
WAGNER, THOMAS E.	MATURE SPERM CHROMOSOMES: STRUCTURE AND RELEASE MODE	5R01 HD09042-02	30,672
ORGANIZATION TOTAL	5 123,185		
<b>BOWLING GREEN</b>			
<b>BOWLING GREEN STATE UNIVERSITY</b>	<b>ZIP CODE 43404</b>		
HEBERLEIN, GARY T.	GENETICS AND BIOCHEMISTRY OF TUMOR INDUCTION	7R01 CA20046-01	51,532
HEBERLEIN, GARY T.	GENETICS AND BIOCHEMISTRY OF TUMOR INDUCTION	5R01 CA20046-02	70,110
MC KEEVER, WALTER F.	LATERAL DOMINANCE AND LATERAL WORD RECOGNITION	5R01 NS10214-04	15,348
MC KEEVER, WALTER F.	LATERAL DOMINANCE AND LATERAL WORD RECOGNITION	2R01 NS10214-05	24,248
NAGY, Z MICHAEL	ONTOGENY OF LEARNING AND MEMORY	5R01 HD09145-02	34,782
PANKSEPP, JAAK	MEDIAL HYPOTHALAMIC REGULATION OF FEEDING BEHAVIOR	5R01 AM17157-03	33,863
SCOVELL, WILLIAM M.	THE INFLUENCE OF METAL COMPLEXES ON DNA	3R01 CA16968-02S1	2,200
ORGANIZATION TOTAL	7 232,083		
<b>CINCINNATI</b>			
<b>CHILDREN'S HOSPITAL MEDICAL CENTER</b>	<b>ZIP CODE 45229</b>		
BERRY, HELEN K.	BIOCHEMICAL AND BEHAVIORAL STUDIES OF PHENYLKETONURIA	5R01 HD00324-21	46,141
BERRY, HELEN K.	PHENYLALANINE HYDROXYLASE ACTIVITY IN MAMMALIAN TISSUES	5R01 HD06018-05	43,086
CLARK, LELAND C, JR.	NEW OXYGEN CARRYING RADIOPAQUE FLUOROCARBONS	5R01 GM21475-02	43,391
CLARK, LELAND C, JR.	THE PHYSIOLOGY OF PERFLUOROCEMICALS IN THE LUNG	5R01 HL17353-02	48,510
CLARK, LELAND C, JR.	THE PHYSIOLOGY OF PERFLUOROCEMICALS IN THE LUNG	5R01 HL17353-03	48,579
CLARK, LELAND C, JR.	PERFLUORODECALIN EMULSIONS AS ARTIFICIAL BLOOD	5R01 HL17587-02	109,683
CLARK, LELAND C, JR.	PERFLUORODECALIN EMULSIONS AS ARTIFICIAL BLOOD	5R01 HL17587-03	104,855
DONALDSON, VIRGINIA H.	HYDROLYTIC ENZYMES OF BLOOD IN HEALTH AND DISEASE	5R01 HL15690-04	88,177
DONALDSON, VIRGINIA H.	HYDROLYTIC ENZYMES OF BLOOD IN HEALTH AND DISEASE	5R01 HL15690-05	87,823
GANSCHOW, ROGER E.	GENETIC CONTROL OF MAMMALIAN ENZYME EXPRESSION	5R01 AM14770-06	62,752
GANSCHOW, ROGER E.	GENETIC CONTROL OF MAMMALIAN ENZYME EXPRESSION	5R01 AM14770-07	62,728
GASTON, MARILYN	COMPREHENSIVE SICKLE CELL CENTER SUPPORT	5P60 HL15996-04	269,615
JAMES, FREDERICK W.	MAXIMAL EXERCISE TESTING IN HYPERLIPIDEMIC CHILDREN	1R01 HL18454-01	68,255
PRATT, EDWARD L.	GENERAL CLINICAL RESEARCH CENTER (CHILDREN)	2M01 RR00123-13	527,904
PRATT, EDWARD L.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05535-14	115,571
SOUKUP, SHIRLEY W.	EARLY CHANGES IN POTENTIAL BRAIN TUMOR TISSUE OF THE RAT	3R01 CA18588-01S1	4,755
VALLOTA, ENRIQUE H.	BIOCHEMISTRY AND BIOLOGICAL FUNCTIONS OF C3A AND C5A	5R01 AI12417-02	50,002
WARKANY, JOSEF	CENTER GRANT IN MENTAL RETARDATION	5P30 HD05221-07	342,535
WEST, CLARK D.	A SERUM C3 INACTIVATOR IN NEPHRITIS	5R01 AM13572-07	32,982
WILSON, JAMES G.	CELL DEATH AND REDUCED BIOSYNTHESIS IN TERATOGENESIS	5R01 HD06526-05	49,185
WILSON, JAMES G.	BASES OF CELLULAR SENSITIVITY TO TERATOGENIC AGENTS	1R01 HD09951-01	92,316
ZIMMERMAN, ERNEST F.	TERATOGENS ON CLEFT PALATE FORMATION	5R01 DE03469-05	74,816



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
ZIMMERMAN, ERNEST F.....	STUDY OF FETAL MOUSE MYOSIN.....	5R01 HD08679-03	47,048
ORGANIZATION TOTAL	23 2,420,709		
<b>CHRIST HOSPITAL ZIP CODE 45219</b>			
KRUEGER, ROBERT G.....	MURINE MYELOMA STUDIES.....	5R01 CA18936-02	83,911
ORGANIZATION TOTAL	1 83,911		
<b>UNIVERSITY OF CINCINNATI ZIP CODE 45221</b>			
ALEXANDER, J WESLEY.....	SIGNIFICANCE OF INTRARENAL FLOW DURING PRESERVATION.....	5R01 AM16088-03	52,203
ALTEMEIER, WILLIAM A.....	CENTER FOR COMPREHENSIVE CLINICAL STUDY OF TRAUMA.....	5P50 GM15428-09	439,305
ALTEMEIER, WILLIAM A.....	CENTER FOR COMPREHENSIVE CLINICAL STUDY OF TRAUMA.....	5P50 GM15428-10	572,686
ARMENTROUT, RICHARD W.....	SELECTIVE REPLICATION OF PARVOVIRUS IN TUMOR CELLS.....	5R01 CA16517-02	43,244
BERNSTEIN, I LEONARD.....	PLATELET FUNCTION IN ASTHMA.....	5R01 AI12148-03	45,295
BLAHA, GORDON C.....	FUNCTIONAL AGE CHANGES IN FEMALE REPRODUCTIVE ORGANS.....	5R01 HD06982-03	35,128
BORST, ALBERT M.....	SPIN ASSAY FOR NUCLEIC ACID BINDING PROTEINS.....	1R01 CA15717-01A4	46,048
BRAY, NORMAN W.....	MEMORY SKILLS IN RETARDED AND NORMAL CHILDREN.....	5R01 HD09539-02	25,199
BROOKS, STUART M.....	STERIOD METABOLISM IN PATIENTS WITH BRONCHIAL ASTHMA.....	5R01 HD06982-03	4,696
BROWN, RONALD D.....	CONTROL OF GENE EXPRESSION DURING EARLY DEVELOPMENT.....	1R01 GM22766-01	41,415
BRYANT, SHIRLEY H.....	ELECTROPHYSIOLOGY AND PHARMACOLOGY OF MYOTOMIC MUSCLE.....	2R01 NS03178-14	56,456
BUS, JAMES S.....	PARAQUAT LUNG TOXICITY.....	1R23 HL19574-01	37,514
CLYNE, DAVID H.....	MYELOMA KIDNEY: STUDIES ON TUBULAR CAST FORMATION.....	5R01 AM18466-02	30,716
COATS, EUGENE A.....	QUANTITATIVE SAR OF CHELATE ANTINEOPLASTIC AGENTS.....	5R01 CA13481-04	39,390
COATS, EUGENE A.....	QUANTITATIVE SAR OF CHELATE ANTINEOPLASTIC AGENTS.....	5R01 CA13481-05	40,684
COATS, EUGENE A.....	RESPIRATORY INHIBITORS AS ANTINEOPLASTIC AGENTS.....	5R01 CA16253-03	29,388
DANIELS, ROBERT S.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05408-15	183,210
DAY, RICHARD A.....	REVERSIBLE COVALENT MODIFICATION OF NUCLEIC ACIDS.....	5R01 GM21705-02	30,906
DAY, RICHARD A.....	A NOVEL APPROACH TO PEPTIDE SEQUENCING.....	1R01 GM23154-01	39,973
FOULKES, ERNEST C.....	TOXICOLOGICAL SIGNIFICANCE OF CADMIUM-METALLOTHIONEIN.....	1R01 ES01462-01	58,799
FREISHEIM, JAMES H.....	STRUCTURE-FUNCTION STUDIES OF DIHYDROFOLATE REDUCTASE.....	2R01 CA11666-07	90,590
GLUECK, HELEN I.....	DETERMINATION OF NATURAL CLOTTING FACTORS.....	5R01 HL02904-20	71,999
GRUENSTEIN, ERIC I.....	MEMBRANE DEFECTS IN FAMILIAL HYPERCHOLESTEROLEMIA.....	1R01 HL18553-01	35,667
HERMAN, JEROME H.....	IMMUNOPATHOLOGY OF CARTILAGE PROTEOGLYCAN.....	2R01 AM16894-04	68,303
HESS, EVELYN V.....	HOST DEFENSES AND AUTO-IMMUNITY IN THE AGED.....	5R01 AG00463-02	25,890
HESS, EVELYN V.....	A DRUG INDUCED ANIMAL MODEL FOR S L E.....	2R01 AM12297-05A3	35,822
HIGHSMITH, ROBERT F.....	PHYSIOLOGICAL REGULATION OF THE FIBRINOLYTIC SYSTEM.....	5R01 HL18101-02	36,837
JOHNSON, DALE R.....	EFFECTS OF LEAD ON RENAL MATURATION IN YOUNG ANIMALS.....	5R01 ES00972-02	48,280
JOHNSON, ROBERT L.....	ROLES OF LYMPHOKINES AND MONOCYTES IN LUNG FIBROSIS.....	1R01 HL20095-01	58,257
KANESHIRO, EDNA S.....	MEMBRANE ALTERATIONS IN BEHAVIORAL MUTANTS.....	5R01 GM20910-03	35,961
KLINE, DANIEL L.....	PHYSIOLOGY AND BIOCHEMISTRY OF FIBRINOLYTIC ENZYMES.....	5R01 HL11172-10	48,051
KNOWLES, HARVEY C, JR.....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	2R01 AM04401-16	10,227
KNOWLES, HARVEY C, JR.....	RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM04401-17	5,799
KNOWLES, HARVEY C, JR.....	GENERAL CLINICAL RESEARCH CENTER.....	2M01 RR00068-14	503,266
KRUEGER, ROBERT C.....	STRUCTURE AND TEMPLATE ACTIVITY OF CHROMATIN.....	1R01 GM23030-01	38,059
KUHN, W E.....	DEVELOPMENT OF A TOTAL HIP PROSTHESIS WITH IMPROVED LIFE.....	5R01 AM17385-02	47,499
LINGREL, JERRY B.....	MAMMALIAN MESSENGER RNA AND ITS SYNTHESIS.....	2R01 GM10999-12	70,333
LIPICKY, RAYMOND J.....	BIOPHYSICAL ASPECTS OF DISEASES OF SKELETAL MUSCLE.....	5R01 NS06782-09	48,498
LOPER, JOHN C.....	FRAMESHIFT MUTAGENESIS IN SALMONELLA TYPHIMURIUM.....	5R01 AI11516-03	40,723
MACOMBER, ROGER S.....	STUDY OF SYNTHESIS OF TRICYCLIC ACETYLENE.....	5R01 AI11690-03	23,236
MANALIS, RICHARD S.....	EFFECTS OF HEAVY METAL IONS ON A CHEMICAL SYNAPSE.....	5R01 ES00649-05	29,056
MANALIS, RICHARD S.....	EFFECTS OF HEAVY METAL IONS ON A CHEMICAL SYNAPSE.....	5R01 ES00649-06	30,395
MATTHEIS, E BINGHAM.....	PULMONARY METABOLISM OF BENZO(A)PYRENE.....	5R01 CA15344-03	43,963
MC CUSKEY, ROBERT S.....	HEPATIC MICROVASCULAR REGULATORY MECHANISMS.....	1R01 HL18914-01	27,773
MEYER, RALPH R.....	REGULATION OF DNA REPLICATION IN NOVIKOFF HEPATOMA.....	5R01 CA17723-02	35,420
MOULTON, BRUCE C.....	ENDOMETRIAL MECHANISMS OF OVARIAN HORMONE SYNERGISM.....	2R01 HD07255-04	33,325
OLINGER, CHARLES P.....	ACOUSTICAL DETECTION OF CEREBRAL ANEURYSMS AND BRUIES.....	5R01 NS11990-02	33,707
PESCE, AMADEO J.....	TRANSPORT OF PROTEIN BY THE KIDNEY.....	5R01 AM17330-04	57,879
PESCE, AMADEO J.....	SPECIFIC ANTIBODIES TO BLADDER CARCINOMA TUMOR ANTIGEN.....	5R26 CA16939-02	54,646
PESCE, AMADEO J.....	SPECIFIC ANTIBODIES TO BLADDER CARCINOMA TUMOR ANTIGEN.....	5R26 CA16939-03	58,441
PLAY-SONG-SANG, YONGYUOH.....	ACOUSTIC PULMONARY FUNCTION TESTS.....	1R23 HL19447-01	43,389
POLLAK, VICTOR E.....	CLINICOPATHOLOGIC AND OTHER STUDIES OF RENAL DISEASE.....	2R01 AM17196-04	115,299

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
RUDNEY, HARRY.....	REGULATION OF ENZYMES IN MEVALONATE SYNTHESIS.....	5R01 AM12402-09	69,847
RUDNEY, HARRY.....	STUDIES ON THE BIOSYNTHESIS OF UBIQUINONE.....	5R01 GM20311-08	46,679
SCOTT, RALPH C.....	THE JUVENILE DIABETIC HEART.....	1R01 HL20428-01	105,030
SIGELL, LEONARD T.....	A NEW MODEL FOR MEDICAL INFORMATION COMMUNICATION SYSTEM.....	5R01 LM02350-02	67,835
SMITH, ROGER D.....	VIROLOGIC EVALUATION OF CHRONIC RENAL DISEASE.....	1R01 AM19426-01	56,029
SUSKIND, RAYMOND R.....	SUPPORT FOR CENTER FOR STUDY OF THE HUMAN ENVIRONMENT.....	5P30 ES00159-11	899,009
YOUNKIN, STEVEN G.....	LONG-TERM CONTROL OF MUSCLE MEMBRANE & NERVE TERMINAL.....	1R01 NS13027-01	45,307
ZIMMER, HANS W.....	NOVEL PHOSPHONATE STABILIZED CARBANIONS.....	5R01 CA16666-02	39,856
ZIMMER, HANS W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07075-02	29,631
ORGANIZATION TOTAL	61	5,118,068	
<b>CLEVELAND</b>			
<b>AMERICAN ASSOCIATION FOR THE HISTORY OF MEDICINE</b>		<b>ZIP CODE 44106</b>	
POTTER, PAUL M J.....	LOEB CLASSICAL LIBRARY, HIPPOCRATES, VOLUME FIVE.....	1R01 LM02813-01	800
ORGANIZATION TOTAL	1	800	
<b>CANCER CENTER, INC.</b>		<b>ZIP CODE 44106</b>	
LIPSETT, MORTIMER.....	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE).....	5P30 CA17056-02	226,612
ORGANIZATION TOTAL	1	226,612	
<b>CASE WESTERN RESERVE UNIVERSITY</b>		<b>ZIP CODE 44106</b>	
ADAM, PETER A.....	CONTROL OF FETAL AND NEONATAL GLUCOSE METABOLISM.....	5R01 HD05740-05	73,816
AIKAWA, MASAMICHI.....	CHEMOTHERAPY OF MALARIA.....	5R01 AI08970-08	30,803
AIKAWA, MASAMICHI.....	HIGH VOLTAGE ELECTRON MICROSCOPY OF MALARIA.....	5R01 AI10645-05	29,093
BADGER, SHIRLEY J.....	SEROLOGY OF ORAL GRAM NEGATIVE ANAEROBES.....	1R01 DE04422-01	21,612
BARBOUR, STEPHEN D.....	GENETIC AND BIOCHEMICAL STUDIES OF RECOMBINATION.....	5R01 GM17329-07	30,674
BENSUSAN, HOWARD B.....	THE MECHANISM OF COLLAGEN FORMATION.....	5R01 AM01825-18	28,956
BENSUSAN, HOWARD B.....	STUDIES ON THE NONCOLLAGENOUS PORTION OF PROCOLLAGEN.....	5R01 AM17720-03	40,158
BERNIER, GEORGE M, JR.....	METABOLISM OF LOW-MOLECULAR WEIGHT PROTEINS.....	5R01 AM14700-06	53,637
BERNIER, GEORGE M, JR.....	ORIGINS AND STRUCTURE OF THE MYELOMA CELL.....	5R01 CA17864-02	48,524
BIAGLOW, JOHN E.....	MODIFICATION OF X-RAY RESPONSE OF ANOXIC-HYPOXIC CELLS.....	2R01 CA13747-04	121,115
BIAGLOW, JOHN E.....	MODIFICATION OF X-RAY RESPONSE OF ANOXIC-HYPOXIC CELLS.....	5R01 CA13747-05	110,916
BOAT, THOMAS F.....	MUCOUS GLYCOPROTEIN OF HUMAN RESPIRATORY EPITHELIUM.....	2R01 HL14844-04	16,553
BOAT, THOMAS F.....	MUCOUS GLYCOPROTEIN OF HUMAN RESPIRATORY EPITHELIUM.....	5R01 HL14844-05	13,213
BODANSZKY, MIKLOS.....	SYNTHETIC PEPTIDE HORMONES.....	2R01 AM12473-08	64,539
BURSTEIN, ALBERT H.....	IN VIVO LOADING ON HIP AND KNEE JOINT REPLACEMENTS.....	5R01 AM16600-03	51,573
BURSTEIN, ALBERT H.....	BIOENGINEERING THREE-DIMENSIONAL SPINAL ANALYSIS.....	5R01 AM17149-03	62,703
BURSTEIN, ALBERT H.....	DEVELOPMENT OF SKELETAL STRENGTH IN CHILDREN.....	5R01 HD08027-02	55,952
CAPLAN, ARNOLD I.....	CELLULAR CONTROL OF BIOLOGICAL CALCIFICATION.....	5R01 DE04008-02	49,708
CAPLAN, ARNOLD I.....	THE CONTROL OF DEVELOPMENT OF LIMB MESODERMAL CELLS.....	5R01 HD07209-03	58,671
CARTER, JAMES R, JR.....	MECHANISM OF ACTION OF INSULIN.....	5R01 AM18382-03	72,330
CARTER, JAMES R, JR.....	BIOSYNTHESIS OF RED CELL MEMBRANE PROTEINS.....	5R01 AM18389-03	65,461
CASTON, J DOUGLAS.....	PROTEIN SYNTHESIS DURING EMBRYOGENESIS.....	5R01 HD00038-12	69,758
CHEUNG, PETER W.....	LIGHT-SCATTERING STUDIES OF THE SICKLING PROCESS.....	1R01 HL18725-01	52,719
COOK, ROBERT T.....	HISTONE CONTROL OF NUCLEAR DNA POLYMERASE ACTIVITY.....	5R01 CA15484-04	46,426
CULP, LLOYD A.....	SURFACE PROPERTIES OF CANCER AND REVERTANT CELLS.....	5R01 CA13513-05	80,923
DE MARCO, THOMAS J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05335-15	20,883
DE PALMA, RALPH G.....	ATHEROSCLEROTIC PLAQUE DYNAMICS IN NONHUMAN PRIMATES.....	5R01 HL16206-02	108,891
DOERSHUK, CARL F.....	PULMONARY MUCUS TRANSPORT IN OBSTRUCTIVE LUNG DISEASES.....	5R01 HL17776-02	41,777
DYBBS, ALEXANDER.....	IMPROVEMENT OF CORNEAL CONTACT LENS DESIGN.....	1R01 EY01528-01A1	60,652
EARLE, A SCOTT.....	RECONSTRUCTION OF FACIAL DEFECTS IN CANCER PATIENTS.....	5R18 CA17451-02	86,666
ECKSTEIN, RICHARD W.....	CORONARY BLOOD SUPPLY AND FUNCTION OF AORTIC BODIES.....	2R01 HL13926-06	92,965
EVANS, AUDREY H.....	GENETIC FUNCTIONS AND CONTINUITY OF RNA-DNA HYBRIDS.....	5R01 AI11054-02	24,701
EVANS, HELEN H.....	CONTROL OF DNA REPLICATION IN A EUKARYOTE.....	2R01 GM19484-04A1	89,849
FACKLER, JOHN P, JR.....	REACTIONS OF COORDINATED SULFUR COMPLEXES.....	5R01 GM19050-06	41,975
FANGER, MICHAEL W.....	LYMPHOCYTE SUBPOPULATIONS AND TRANSFORMATION.....	5R01 AI10148-05	44,701
FANGER, MICHAEL W.....	LYMPHOCYTE SUBPOPULATIONS AND TRANSFORMATION.....	5R01 AI10148-06	46,384
FANTZ, ROBERT L.....	PERCEPTION IN TERM, PRETERM, AND EXCEPTIONAL INFANTS.....	2R01 HD04212-07	77,279

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
FERGUSON, JOHN H.....	INTRACORTICAL CONNECTIONS AND SEIZURE THRESHOLD.....	5R01 NS12416-02	36,401
FRANK, KAY E.....	OCULAR INJURY BY ULTRASOUND.....	5R23 EY01508-02	11,250
GOLDTHWAIT, DAVID A.....	NUCLEIC ACID FUNCTION IN RELATION TO CANCER.....	5R01 CA11322-08	64,003
GOLDTHWAIT, DAVID A.....	REPAIR OF X-IRRADIATED DNA IN NORMAL AND CANCER CELLS.....	1R01 CA18747-01	53,825
GOLDTHWAIT, DAVID A.....	THE BIOCHEMISTRY OF GENETIC RECOMBINATION.....	5R01 GM18870-04	45,906
GOLDTHWAIT, DAVID A.....	THE BIOCHEMISTRY OF GENETIC RECOMBINATION.....	5R01 GM18870-05	55,416
GRAVENSTEIN, JOACHIM S.....	SURVEILLANCE & PREDICTIVE DIAGNOSIS IN SURGICAL PATIENTS.....	3P01 GM19599-03S1	20,248
GRAVENSTEIN, JOACHIM S.....	PROGRAM FOR PERIOPERATIVE PREDICTIVE DIAGNOSIS.....	2P01 GM19599-04A1	337,704
GREBER, ISAAC.....	DYNAMICS OF THE PLEURAL SPACE.....	5R01 HL17866-02	48,533
GREGG, EARLE C.....	MUTANTS AND ALTERED RADIORESPONSE OF CELLS AND TUMORS.....	5R01 CA15901-03	152,291
GREGG, EARLE C.....	CORE SUPPORT FOR RADIATION ONCOLOGY RESEARCH.....	1P30 CA19283-01	213,834
HARPST, JERRY A.....	LIGHT SCATTERING STUDIES ON DNA.....	5R01 GM21946-02	24,322
HARRIS, JOHN W.....	STUDIES OF ERYTHROCYTE PRODUCTION AND DESTRUCTION.....	2R01 AM00745-22	97,536
HEGGIE, ALFRED D.....	VIRUS INDUCED DISORDERS OF GROWTH & DEVELOPMENT.....	5R01 HD04110-06	64,110
HIRSCHMANN, HANS.....	CHEMISTRY AND METABOLISM OF STEROIDS.....	5R01 AM09105-25	30,318
HOGG, ROBERT W.....	TRANSPORT MECHANISMS FOR L-ARABINOSE UPTAKE.....	5R01 AM13791-06	32,462
HOPFER, ULRICH.....	INTESTINAL TRANSPORT OF NUTRIENTS AND ELECTROLYTES.....	5R01 AM18265-02	47,424
HOPPEL, CHARLES L.....	PATHWAYS AND CONTROL OF FATTY ACID OXIDATION.....	5R01 AM15804-05	70,684
HOSHIKO, TOMUO.....	ION TRANSPORT ACROSS BIOLOGICAL MEMBRANES.....	5R01 AM05865-12	63,108
ILAN, JOSEPH.....	MESSANGER RNA TRANSLATION DURING EMBRYOGENESIS.....	5R01 HD06727-05	63,446
ILAN, JUDITH.....	EFFECT OF DRUGS ON PLASMODIUM BERGHEI.....	5R01 AI11673-03	43,882
KAISERMAN-ABRAMOW, ITA R.....	STRUCTURE AND DEVELOPMENT OF THE VISUAL SYSTEM.....	2R01 EY01018-04	69,240
KEAN, EDWARD L.....	GLYCOLIPID AND GLYCOPROTEIN METABOLISM IN EYE TISSUE.....	5R01 EY00393-09	93,117
KELLERMAYER, ROBERT W.....	SOUTHEASTERN CANCER STUDY GROUP.....	5R10 CA15584-03	72,770
KLEIN, LEROY.....	QUANTITATIVE DYNAMICS OF BONE REMODELLING WITH AGE.....	5R01 AG00258-08	126,058
KLEIN, LEROY.....	AN INTERDISCIPLINARY PROGRAM OF RESEARCH IN AGING.....	5P01 AG00361-17	427,791
KO, WEN H.....	MICROELECTRONICS LABORATORY FOR BIOMEDICAL SCIENCE.....	5P01 GM14267-11	360,832
KO, WEN H.....	BIOMEDICAL ELECTRONICS RESOURCE.....	5P41 RR00857-02	257,419
KOENIG, JACK L.....	RAMAN SPECTROSCOPE STUDIES: NUCLEOHISTONE-DNA COMPLEXES.....	5R01 GM19975-02	45,296
KOWAL, JEROME.....	ENZYMATIC CONTROL OF STEROID BIOSYNTHESIS.....	5R01 AM15236-06	72,506
KOWAL, JEROME.....	HORMONAL CONTROL OF NORMAL AND NEOPLASTIC BREAST CELLS.....	1R01 CA16650-01A1	48,286
KUSHNER, IRVING.....	REGULATION OF C-REACTIVE PROTEIN SYNTHESIS.....	2R01 AI12886-02	37,664
LANDAU, BERNARD R.....	CARBOHYDRATE AND LIPID METABOLIC PATHWAYS.....	5R01 AM14507-07	88,419
LASEK, RAYMOND J.....	MACROMOLECULAR CONTROL OF NEURONAL FUNCTION.....	5R01 NS09299-06	50,727
LASEK, RAYMOND J.....	MACROMOLECULAR CONTROL OF NEURONAL FUNCTION.....	5R01 NS09299-07	47,340
LEE, EDGAR, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05410-15	261,305
LINDLEY, BARRY D.....	EXCITATION-CONTRACTION COUPLING IN DENERVATED MUSCLE.....	5R01 NS10196-03	42,844
LINDLEY, BARRY D.....	EXCITATION-CONTRACTION COUPLING IN DENERVATED MUSCLE.....	5R01 NS10196-04	50,964
LITTLE, A BRIAN.....	HORMONE METABOLISM IN REPRODUCTION.....	2R01 HD02378-11	80,240
LITTLE, A BRIAN.....	PROGRAM PROJECT IN REPRODUCTIVE BIOLOGY.....	5P50 HD07640-03	281,021
MACKLIN, MARTIN R.....	ELECTROGENIC PROPERTIES OF EPITHELIA.....	5R01 GM20541-03	26,032
MACKLIN, MARTIN R.....	FETAL DEVELOPMENT AS MANIFEST BY THE FETAL ECG.....	5R01 HD08538-02	46,762
MANDEL, MARK A.....	LOCAL IMMUNE RESPONSE AGAINST CANCER.....	5R01 CA15115-03	35,307
MANN, J ADIN, JR.....	MEMBRANE DYNAMICS: FLUCTUATION SPECTROSCOPY.....	5R01 GM22031-02	44,917
MANSOUR, EDWARD G.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	3R10 CA14548-01A1S1	24,207
MARS, HAROLD.....	BIOGENIC AMINE METABOLISM IN APNEA AND CRIB DEATH.....	5R01 HD09324-02	33,984
MARSHALL, JAMES S.....	STUDIES ON HUMAN THYROXINE-BINDING GLOBULIN.....	5R01 AM15308-06	56,398
MATTHEWS, LEROY W.....	STUDIES IN CYSTIC FIBROSIS.....	2P01 AM08305-13	151,832
MATTHEWS, LEROY W.....	CYSTIC FIBROSIS AND PULMONARY DISEASE.....	2R01 HL13885-06	199,116
MEIGS, ROBERT A.....	CONTROL OF STEROID HORMONE BIOSYNTHESIS IN PREGNANCY.....	5R01 HD06883-03	63,600
MEISNER, HERMAN M.....	HYPOLIPIDEMIC DRUGS—EFFECT ON FFA-ALBUMIN ASSOCIATION.....	1R01 HL18887-01	56,208
MELAMED, BARBARA G.....	BEHAVIORAL APPROACHES TO PAIN RESPONSES IN PEDODONTICS.....	5R01 DE04243-02	46,432
MILLER, CHARLES G.....	GENETICS & BIOCHEMISTRY OF INTRACELLULAR PROTEOLYSIS.....	5R01 AI10333-06	37,063
MILLER, MAX.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	2R01 AM05422-15	19,252
MILLER, MAX.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM05422-16	15,281
MOORE, ALLEN C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07113-09	115,132
MURPHY, JOHN R.....	ENERGY METABOLISM OF THE ERYTHROCYTE.....	5R01 AM02189-17	53,307
MURPHY, JOHN R.....	ENERGY METABOLISM OF THE ERYTHROCYTE.....	5R01 AM02189-18	56,871
MURRISH, DAVID E.....	FLUID EXCHANGE THROUGH CAPILLARY WALLS.....	5R01 HL14640-05	32,748
NEET, KENNETH E.....	INTERACTION OF SUBUNITS IN ENZYMES AND PROTEINS.....	5R01 AM12881-08	64,898



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
OCCHINO, JOSEPH C.....	CHARACTERIZATION OF ORAL MUCOSA AND SKIN BASAL LAMINA.....	1R01 DE04338-01	39,251
OLAH, GEORGE A.....	THE ELECTROPHILIC NATURE OF CHEMICAL CARCINOGENS.....	1R01 CA18156-01	36,500
OLAH, GEORGE A.....	BIOALKYLATION AND ACRYLATION SYSTEMS.....	5R01 GM14082-10	107,714
OLEINICK, NANCY L.....	RADIATION-INDUCED MODIFICATIONS IN PROTEIN SYNTHESIS.....	5R01 CA15378-03	75,349
ORNER, PETER A.....	ADAPTIVE MONITORING OF DIABETIC KETOACIDOSIS.....	5R01 GM21932-02	52,003
PEARSON, OLOF H.....	ENDOCRINE FACTORS INFLUENCING TUMOR GROWTH IN MAN.....	5R01 CA05197-17	101,422
PLONSEY, ROBERT.....	MULTIPOLE SYSTEMS IN ELECTROCARDIOGRAPHY.....	3R01 HL10417-09S2	12,661
PLONSEY, ROBERT.....	MULTIPOLE SYSTEMS IN ELECTROCARDIOGRAPHY.....	2R01 HL10417-10	30,864
PLONSEY, ROBERT.....	NORMALIZED BODY SURFACE POTENTIAL MAPS.....	5R01 HL17931-02	82,188
POST, ROBERT S.....	PROTEIN FILTRATION AND REABSORPTION.....	2R01 AM16302-04	55,207
RATNOFF, OSCAR D.....	STUDIES ON HEMOSTATIC MECHANISMS.....	2R01 HL01661-24	114,990
RATNOFF, OSCAR D.....	STUDIES ON HEMOSTATIC MECHANISMS.....	5R01 HL01661-25	134,724
RECKNAGEL, RICHARD O.....	TOXIC LIVER NECROSIS AND FATTY LIVER.....	5R01 AM01489-19	125,158
RECKNAGEL, RICHARD O.....	TOXIC LIVER NECROSIS AND FATTY LIVER.....	5R01 AM01489-20	131,111
ROBBINS, FREDERICK C.....	GENERAL CLINICAL RESEARCH CENTER (MATERNAL-CHILD).....	5M01 RR00210-12	546,555
SABLE, HENRY Z.....	STUDIES ON POLYHYDROXYCYCLOALKANES.....	5R01 AM07719-13	44,368
SABLE, HENRY Z.....	STUDIES ON POLYHYDROXYCYCLOALKANES.....	5R01 AM07719-14	43,228
SABLE, HENRY Z.....	MECHANISM OF ACTION OF THIAMIN PYROPHOSPHATE.....	1R01 AM18888-01	37,700
SAIDEL, GERALD M.....	RENAL DATA ANALYSIS BY SYSTEMS MODELING.....	5R01 AM18603-02	31,390
SAIDEL, GERALD M.....	IMMUNOTHERAPY AND DYNAMICS OF THE METASTATIC PROCESS.....	5R01 CA16089-03	35,025
SAKAMI, WARWICK.....	BIOLOGICAL SIGNIFICANCE OF FOLYLPOLYGLUTAMATE SYNTHESIS.....	5R01 GM21552-02	53,726
SALOMON, ROBERT G.....	PREPROSTAGLANDIN ENDOPEROXIDES.....	5R01 GM21249-02	27,180
SAYERS, GEORGE.....	ISOLATED ADENOHYPOPHYSIAL CELLS.....	2R01 AM13820-07	80,655
SCHILTZ, JOHN R.....	COLLAGEN SYNTHESIS BY DIFFERENTIATING CHICK TISSUES.....	5R01 AM18614-02	41,658
SCHILTZ, JOHN R.....	PATHOPHYSIOLOGY OF CERTAIN HUMAN BULLOUS DERMATOSES.....	1R01 AM19115-01	87,251
SHUSTER, CHARLES W.....	REGULATION OF CELL WALL GROWTH.....	5R01 AI11298-03	43,080
SIMMELINK, JAMES W.....	THE STRUCTURE AND PROPERTIES OF HUMAN DENTAL ENAMEL.....	5R01 DE02525-10	62,995
SIMMELINK, JAMES W.....	THE STRUCTURE AND PROPERTIES OF HUMAN DENTAL ENAMEL.....	2R01 DE02525-11	70,344
SINGER, MARCUS.....	NERVOUS CONTROL OF REGENERATION; AXON-SHEATH RELATIONS.....	5R01 NS07403-15	143,606
SINGER, MARCUS.....	NERVOUS CONTROL OF REGENERATION; AXON-SHEATH RELATIONS.....	5R01 NS07403-16	151,180
SKEGGS, LEONARD T.....	CAUSE OF CHRONIC EXPERIMENTAL RENAL HYPERTENSION.....	5R01 HL17243-02	45,269
SKEGGS, LEONARD T.....	CAUSE OF CHRONIC EXPERIMENTAL RENAL HYPERTENSION.....	5R01 HL17243-03	46,842
SOKOLLU, ADMAN.....	STUDY OF EYE PHYSIOLOGY AND DISEASE BY ULTRASOUND.....	5R01 EY00224-15	152,447
STAMBROOK, PETER J.....	STUDY OF MAMMALIAN GENES AND THEIR REPLICATION.....	5R01 GM22248-02	71,031
STAVITSKY, ABRAM B.....	REGULATION OF HUMORAL IMMUNITY.....	5R01 AI11420-03	75,801
STAVITSKY, ABRAM B.....	HUMORAL IMMUNITY: CHOLERA TOXIN IN CAMP CGMP CONTROL.....	5R01 CA18648-02	25,894
STEINBERG, ARTHUR G.....	NATURE AND DISTRIBUTION OF HUMAN GAMMA-GLOBULIN FACTORS.....	5R01 GM07214-16	104,671
STUEHR, JOHN E.....	KINETIC INVESTIGATION OF BIOCHEMICAL REACTIONS.....	5R01 GM13116-11	81,964
THOMPSON, WILMER LEIGH.....	RENAL PHARMACOLOGY OF DOPAMINE AND PROSTAGLANDINS.....	5R01 GM21727-03	44,400
THOMPSON, WILMER LEIGH.....	SYSTEM OF EMERGENCY TREATMENT OF POISONED PATIENTS.....	5R01 GM22317-02	112,561
TISCHFIELD, JAY A.....	GENETICS OF RESISTANCE TO ADENINE ANALOGS IN VITRO.....	5R01 GM21551-02	62,215
URBACH, FRED L.....	BINUCLEAR REDOX CENTERS IN COPPER PROTEINS.....	1R01 GM23213-01	61,581
UTTER, MERTON F.....	STRUCTURE OF BIOTIN ENZYMES.....	5R01 AM12245-09	153,914
UTTER, MERTON F.....	ELECTRON MICROSCOPY OF ENZYMES.....	1R01 GM22920-01	79,113
VICTOR, MAURICE.....	VITAMIN B12 DEFICIENCY IN RHESUS MONKEYS.....	1R01 EY01663-01	24,450
WALTON, ALAN G.....	PROGRAM PROJECT IN CALCIFIED TISSUE.....	5P01 AM17110-09	233,411
WALTON, ALAN G.....	PROGRAM PROJECT IN CALCIFIED TISSUE.....	5P01 AM17110-10	193,644
WALTON, ALAN G.....	PROGRAM PROJECT IN BIOLOGICAL MATERIALS.....	5P01 HL15195-02	420,665
WARREN, KENNETH S.....	IMMUNOPATHOGENESIS OF SCHISTOSOMIASIS.....	5R22 AI08163-09	150,426
WEBSTER, LESLIE T, JR.....	PHARMACOLOGY OF SALICYLATES AND HEPATIC FUNCTION.....	7R01 AM19630-01	52,048
WENTZ, WILLIAM B.....	CARCINOGENESIS WITH HERPES VIRUS II.....	5R01 CA16706-02	77,160
WOOD, HARLAND G.....	SUBUNIT-SUBUNIT INTERACTIONS OF TRANSCARBOXYLASE.....	1R01 GM22579-01	106,006
WOOD, HARLAND G.....	SUBUNIT-SUBUNIT INTERACTIONS OF TRANSCARBOXYLASE.....	5R01 GM22579-02	97,931
ZULL, JAMES E.....	METABOLISM OF PARATHYROID HORMONE.....	5R01 AM18019-02	43,533
ZULL, JAMES E.....	INTERACTION OF PARATHYROID HORMONE WITH THE KIDNEY.....	1R01 AM18784-01	74,028
ORGANIZATION TOTAL.....	152.....	12,546,533	
<b>CLEVELAND CLINIC HOSPITAL ZIP CODE 44106</b>			
ANTUNEZ, ANTONIO R.....	NEUTRON BEAM RADIOTHERAPY.....	1P01 CA19720-01	204,390
BATTISTO, JACK R.....	NATURALLY OCCURRING DELAYED-TYPE ISO-HYPERSENSITIVITY.....	5R01 AI12468-03	86,636



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
PUMPUS, F MERLIN	CARDIOVASCULAR DISEASE	5P01 HL06835-15	993,191
BUMPUS, F MERLIN	IMPROVEMENT OF CLEVELAND CLINIC ANIMAL FACILITIES	5P40 RR00778-03	50,154
BUMPUS, F MERLIN	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05674-08	103,463
DEODHAR, SHARAD D	CLINICAL IMMUNOTHERAPY OF MALIGNANT MELANOMA	5R01 CA13916-02	74,221
DEODHAR, SHARAD D	CLINICAL IMMUNOTHERAPY OF MALIGNANT MELANOMA	5R01 CA13916-03	75,765
DEODHAR, SHARAD D	IMMUNOLOGIC ASPECTS OF BERYLLIUM LUNG DISEASE	3R01 HL15211-03S1	30,321
DEODHAR, SHARAD D	IMMUNOLOGIC ASPECTS OF BERYLLIUM LUNG DISEASE	2R01 HL15211-04	45,932
EHRHART, ALLEN	COLLAGEN SYNTHESIS IN ATHEROSCLEROSIS	5R01 HL16588-03	57,976
ENGER, CARL C	A HEART-POWERED MINIATURE IMPLANTABLE PACEMAKER	5R01 HL17692-03	56,624
FERRARIO, CARLOS M	THE UNRESOLVED NATURE OF MALIGNANT HYPERTENSION	5R01 HL18062-02	48,686
GEEHWARD, A SETH	A CONTACT AREA STUDY OF THE HUMAN ANKLE JOINT	5R01 AM17479-02	41,283
HEWLETT, JAMES S	SOUTHWEST ONCOLOGY GROUP	5R10 CA04919-17	120,916
HOLZBACH, R THOMAS	STUDY OF FACTORS IN PRECIPITATION OF CHOLESTEROL	5R01 AM17562-03	76,950
NOSE, YUKIHIKO	STUDIES ON PROSTHETIC TOTAL HEART REPLACEMENT	5R01 HL17435-02	89,371
NOSE, YUKIHIKO	HUMAN ANATOMY FOR CARDIAC PROSTHESES	1R01 HL18639-01	59,549
SEN, SUBHA	ISOLATION OF A HYPERTENSIVE COMPOUND FROM HUMAN URINE	3R01 HL16433-02S1	4,658
SHAINOFF, JOHN R	FIBRIN COMPLEXES IN INTERMEDIARY COAGULATION	1R01 HL16361-01A2	59,836
TARAZI, ROBERT C	RENIN AND CARDIAC HYPERTROPHY IN HYPERTENSION	2R01 HL15837-04	88,640
ORGANIZATION TOTAL	20	2,368,562	
<b>CLEVELAND STATE UNIVERSITY ZIP CODE 44115</b>			
GOODRICH, CECILIE A	PHYSIOLOGY OF RESPIRATION AND HIBERNATION	5R01 HL14818-04	15,795
ORGANIZATION TOTAL	1	15,795	
<b>MOUNT SINAI HOSPITAL OF CLEVELAND ZIP CODE 44106</b>			
HAAS, ERWIN	EXPERIMENTAL RENAL AND NEUROGENIC HYPERTENSION	5R01 HL17947-02	204,960
LEVY, MATTHEW N	NEURAL CONTROL OF THE HEART	2R01 HL10951-09A2	113,545
LEVY, MATTHEW N	CATECHOLAMINE RELEASE IN THE HEART	5R01 HL17558-04	87,792
LEVY, MATTHEW N	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05658-09	31,544
PAWLOWSKI, RAYMOND	PULMONARY SURFACTANT: MORPHOLOGY, BIOSYNTHESIS, TURNOVER	5R01 HL16514-03	74,244
ORGANIZATION TOTAL	5	512,085	
<b>ST. LUKE'S HOSPITAL OF THE UNITED METHODIST CHURCH ZIP CODE 44104</b>			
KLEINERMAN, JEROME I	ANALYSIS OF MECHANISMS OF EXPERIMENTAL EMPHYSEMA	5R01 ES00264-09	50,140
KLEINERMAN, JEROME I	EARLY OBSTRUCTIVE LUNG DISEASE: MECHANICS, MORPHOMETRY	5R01 HL16542-03	21,974
KLEINERMAN, JEROME I	EXPERIMENTAL EMPHYSEMA—DEPRESSION OF PROTEASE INHIBITOR	5R01 HL17542-02	54,649
ORGANIZATION TOTAL	3	126,763	
<b>ST. VINCENT CHARITY HOSPITAL ZIP CODE 44115</b>			
NAIR, PANKAJAM	MECHANISM OF CHEMORECEPTOR DISCHARGE	5R01 HL13134-05	50,047
WHALEN, WILLIAM J	COMPARATIVE STUDY OF HEART FUNCTION	5R01 HL11906-09	63,127
WHALEN, WILLIAM J	VASCULAR CONTROL MECHANISMS IN SKELETAL MUSCLE	5R01 HL12703-07	43,798
ORGANIZATION TOTAL	3	156,972	
<b>UNIVERSITY HOSPITALS OF CLEVELAND ZIP CODE 44106</b>			
ROBBINS, FREDERICK C	GENERAL CLINICAL RESEARCH CENTER	2M01 RR00080-14	483,055
ORGANIZATION TOTAL	1	483,055	
<b>COLUMBUS</b>			
<b>BATTELLE MEMORIAL INSTITUTE ZIP CODE 43201</b>			
CLARKE, WILLIAM J	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05723-05	78,569
DAVIS, ROBERT C	SPECTROSCOPIC STUDIES OF METALLOENZYMES	7R01 GM23595-01	54,632
DE VORE, DALE P	CHARACTERIZATION OF ADHESIVE FORMED BY MYTILUS EDULIS	5R01 DE04100-02	43,690
DE VORE, DALE P	PESTICIDE TOXICITY IN MAMMALIAN CELL CULTURES	5R01 ES00865-02	58,854
FOLTZ, RODGER L	REGIONAL BIOMEDICAL MASS SPECTROMETRY RESOURCE	5P41 RR00665-03	61,326
GARDNER, DAVID L	MATERIALS FOR AN IMPLANTABLE MUSCLE	5R07 AM18182-02	45,894
HASSLER, CRAIG R	ELECTRICAL AUGMENTATION OF BONE FORMATION & INGROWTH	1R01 AM19280-01	70,526
ORGANIZATION TOTAL	7	413,491	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
<b>CHILDREN'S HOSPITAL</b>	<b>ZIP CODE 43205</b>		
NEWTON, WILLIAM A, JR.....	CHILDREN'S CANCER STUDY GROUP A.....	5R10 CA03750-19	166,973
ORGANIZATION TOTAL	1 166,973		
<b>OHIO DEPARTMENT OF HEALTH</b>	<b>ZIP CODE 43215</b>		
BEAR, GEORGE T.....	EPIDEMIOLOGY OF ARBORVIRUSES OF PUBLIC HEALTH IMPORTANCE.....	5R01 AI12047-02	47,247
ORGANIZATION TOTAL	1 47,247		
<b>OHIO STATE UNIVERSITY</b>	<b>ZIP CODE 43210</b>		
ALBEN, JAMES O.....	NEW SPECTRAL PROBES IN HEMOLYTIC ANEMIAS.....	5R01 HL17839-02	32,464
ALLEN, JAMES N.....	BIOCHEMISTRY OF NITROSUREA INDUCED BRAIN TUMORS.....	5R01 CA08543-12	46,976
ALLEN, JAMES N.....	RADIATION ENHANCEMENT IN NERVOUS SYSTEM TUMOR MODELS.....	1R01 CA20348-01	76,679
BALCERZAK, STANLEY P.....	LEUKEMIA-LYMPHOMA PROGRAM.....	5P01 CA15147-02	187,910
BARBER, GEORGE A.....	METABOLISM OF 6-DEOXYHEXOSES.....	5R01 GM19701-08	14,983
BASHE, WINSLOW, JR.....	CLINICAL-PATHOLOGIC STUDIES OF SUDDEN CARDIAC DEATH.....	5R01 HL18793-02	90,688
BATTLES, JAMES B.....	A REGIONAL AMBULATORY CANCER CHEMOTHERAPY PROGRAM.....	5R18 CA17942-02	101,798
BEAL, JACK L.....	ANTIMICROBIAL PRINCIPLES OF POROPHYLLUM LANCEOLATUM.....	5R01 AI12728-02	34,067
BEAL, JACK L.....	A PHYTOCHEMICAL SEARCH FOR MEDICINAL CONSTITUENTS.....	5R01 GM20968-02	48,211
BEAL, JACK L.....	PHYTOCHEMISTRY OF THE GENUS THALICTRUM.....	5R01 HL07502-11	35,588
BEHRMAN, EDWARD J.....	BIOCHEMICAL APPLICATIONS OF OSMIUM CHEMISTRY.....	5R01 GM20375-03	26,268
BERLINER, LAWRENCE J.....	THE ROLE OF ALPHA-LACTALBUMIN IN LACTOSE.....	5R01 GM21923-02	42,170
BIRKY, C WILLIAM, JR.....	MECHANISMS OF MITOCHONDRIAL TRANSMISSION GENETICS.....	2R01 GM19607-04	73,900
BRIERLEY, GERALD P.....	ION TRANSPORT BY HEART MITOCHONDRIA.....	5R01 HL09364-11	44,874
BRIERLEY, GERALD P.....	ION TRANSPORT BY HEART MITOCHONDRIA.....	5R01 HL09364-12	46,363
BUSCH, DARYLE H.....	LIGAND REACTIONS, CATALYSIS, AND MACROCYCLIC COMPLEXES.....	5R01 GM10040-14	64,145
CAVALARIS, CONSTANTINE J.....	CLINICAL CANCER EDUCATION PROGRAM - DENTAL.....	5R25 CA17999-02	25,746
CERILLI, G JAMES.....	ANTIVASCULAR ENDOTHELIUM ANTIBODY IN TRANSPLANTATION.....	5R01 AM16804-03	28,682
CERILLI, G JAMES.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA18016-02	93,377
CORNWELL, DAVID G.....	MONOLAYERS AND THE PROPERTIES OF MEMBRANE LIPIDS.....	5R01 GM09506-12	37,626
CORNWELL, DAVID G.....	PATHOGENESIS OF CORONARY ATHEROSCLEROSIS.....	5R01 HL11897-09	56,738
CRAMBLETT, HENRY G.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00034-16	611,467
CRAMBLETT, HENRY G.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05409-15	147,067
DODD, MATTHEW C.....	IMMUNE RNA: TUMOR THERAPY AND PROPHYLAXIS IN MICE.....	5R01 CA16867-02	56,543
DONNERBERG, ROY L.....	QUANTITATIVE PHONOPNEUMOGRAPHY IN LUNG DISEASE.....	5R01 HL16563-02	57,675
FERRIS, THOMAS F.....	PHYSIOLOGY OF RENIN, ALDOSTERONE, AND PROSTAGLANDIN.....	5R01 HL13653-05	38,268
FERTEL, RICHARD H.....	THE PHARMACOLOGIC CONTROL OF MAST CELL PHOSPHODIESTERASE.....	1R01 HL19062-01	40,538
FREY, PERRY A.....	ENZYME CATALYSIS OF ELECTRON AND GROUP TRANSFER.....	5R01 AM13502-08	49,944
HART, RONALD W.....	MECHANISM OF CARCINOGEN-COCARCINOGEN INTERACTION.....	5R01 CA17917-02	25,062
HILL, RICHARD M.....	EFFECTS OF REFRACTIVE ERROR IN SINGLE CELL CODING.....	5R01 EY01325-03	17,683
HINE, JACK.....	POLYFUNCTIONAL CATALYSIS.....	5R01 GM18593-11	36,078
HINE, JACK.....	POLYFUNCTIONAL CATALYSIS.....	2R01 GM18593-12	45,436
HORTON, DEREK.....	DESIGN AND EVALUATION OF ANTITUMOR NUCLEOSIDE ANALOGS.....	5R01 CA15675-03	48,660
HORTON, DEREK.....	SYNTHESIS OF BIOLOGICALLY IMPORTANT CARBOHYDRATES.....	5R01 GM11976-12	70,717
HORTON, DEREK.....	STRUCTURAL INVESTIGATION ON GLYCOSAMINOGLYCANS.....	5R01 HL11489-08	49,617
HORTON, DEREK.....	STRUCTURAL INVESTIGATION ON GLYCOSAMINOGLYCANS.....	5R01 HL11489-09	53,368
HUNT, WILLIAM E.....	ACUTE SPINAL CORD INJURY RESEARCH CENTER.....	5P50 NS10165-04	471,239
HUNT, WILLIAM E.....	ACUTE SPINAL CORD INJURY RESEARCH CENTER.....	5P50 NS10165-05	236,647
INGLING, CARL R, JR.....	INTERACTION BETWEEN RECEPTOR CLASSES IN THE RETINA.....	5R01 EY00148-06	17,190
IVES, DAVID H.....	ANABOLIC CONTROL IN NORMAL AND NEOPLASTIC TISSUES.....	5R01 CA06913-12	42,418
JORNS, MARILYN S.....	FLAVOENZYME MECHANISMS: REDOX AND NONREDOX REACTIONS.....	1R01 GM22662-01	32,614
KAPRAL, FRANK A.....	STUDIES ON IN VIVO GROWTH OF STAPHYLOCOCCI.....	2R01 AI07826-08	39,630
KING, JAMES S.....	THE ROLE OF THE RED NUCLEUS IN MOTOR FUNCTION.....	5R01 NS08798-06	27,516
KOESTNER, ADALBERT.....	A MODEL OF PARAINFECTIONOUS DEMYELINATING ENCEPHALITIS.....	5R01 AI09022-08	64,704
KOESTNER, ADALBERT.....	NEUROONCOGENESIS BY RESORPTIVE CARCINOGENS.....	5R01 CA11224-08	88,434
KRUEGER, LESTER E.....	HIGHER LEVEL UNITS IN PERCEPTION.....	5R01 HD09282-02	17,322
KUNZ, ALBERT L.....	DYNAMICS OF O2 AND CO2 REGULATION.....	5R01 HL14870-05	32,687
KUWANA, THEODORE.....	SPECTROELECTROCHEMISTRY OF BIO-ELECTRON TRANSFERS.....	5R01 GM19181-05	40,084
LA PIDUS, JULES B.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07074-11	110,885
LIM, DAVID J.....	SEROUS OTITIS MEDIA: IMMUNOCHEMICAL AND EM STUDY.....	5R01 NS08854-06	59,824

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
LIM, DAVID J .....	SEROUS OTITIS MEDIA: IMMUNOCHEMICAL AND EM STUDY .....	5R01 NS08854-07	64,422
LIM, DAVID J .....	RECENT ADVANCES IN MIDDLE EAR EFFUSIONS .....	1R13 NS12822-01	4,000
MARTIN, GEORGE F .....	THE DEVELOPMENT OF 'EXTRAPYRAMIDAL SYSTEMS' .....	2R01 NS07410-09	46,202
MARZLUF, GEORGE A .....	CONTROL OF DIFFERENTIAL GENE ACTION AND MORPHOGENESIS .....	5R01 GM18642-05	14,617
MATTHEWS, RICHARD H .....	INHIBITION AND ISOLATION OF TUMOR TRANSPORT SYSTEMS .....	5R01 CA17925-02	48,544
MAYER, ROBERT M .....	STUDIES ON THE DEXTRAN SUCRASE OF STREPTOCOCCUS SANGUIS .....	5R01 DE03731-03	34,044
MILLER, DUANE D .....	STEREOCHEMICAL STUDIES OF ADRENERGIC DRUGS .....	5R01 NS09350-06	28,250
MILLER, DUANE D .....	DEVELOPMENT OF SELECTIVE BETA-ADRENORECEPTIVE AGENTS .....	5R01 NS10896-03	34,604
MINTON, JOHN P .....	CENTRAL ONCOLOGY GROUP .....	3R10 CA12287-05S1	39,308
NAGODE, LARRY A .....	VITAMIN D: ROLE OF INDUCED CA-ATPASE IN INTESTINE .....	5R01 AM17914-02	21,908
NAGODE, LARRY A .....	VITAMIN D: ROLE OF INDUCED CA-ATPASE IN INTESTINE .....	5R01 AM17914-03	19,963
NEREM, ROBERT M .....	WALL SHEAR STRESSES IN CORONARY VESSELS .....	3R01 HL16236-02S1	22,197
NEREM, ROBERT M .....	WALL SHEAR STRESSES IN CORONARY VESSELS .....	2R01 HL16236-03	23,801
NEWMAN, MELVIN S .....	SYNTHESIS OF CARCINOGENIC COMPOUNDS .....	5R01 CA07394-12	74,857
O'DORISIO, M S .....	CONTROL OF MACROPHAGE FUNCTION BY CAMP/CGMP IN NEOPLASIA .....	1R01 CA19705-01	68,432
OLSON, CARTER L .....	DEVELOPMENT OF NEW ASSAYS FOR ENZYMES AND INHIBITORS .....	3R01 GM15821-07S1	2,401
OLSON, CARTER L .....	DEVELOPMENT OF NEW METHODS TO ASSAY ENZYME REACTIONS .....	2R01 GM15821-08	41,032
PAPPAS, PETER W .....	BIOCHEMICAL ASPECTS OF HOST-PARASITE RELATIONSHIPS .....	5R01 AI1265-02	16,513
PAQUETTE, LEO A .....	POLYCONDENSED ALCYCLICS AND THEIR ANTIVIRAL ROLE .....	5R01 AI11490-03	60,521
PAQUETTE, LEO A .....	CHEMICAL STUDIES RELATED TO HYDROCARBON CARCINOGENESIS .....	5R01 CA12115-06	76,060
PARKS, LLOYD M .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05607-10	37,739
PATIL, POPAT N .....	IRIS COLOR AND OCULAR DRUG EFFECTS .....	5R01 EY01308-02	18,544
PATIL, POPAT N .....	DRUG-RECEPTOR RELATED STEREOSELECTIVITIES .....	5R01 GM17859-08	29,329
PERLMAN, PHILIP S .....	DELETIONS AND MITOCHONDRIAL GENETIC RECOMBINATION .....	1R01 GM21896-01A1	47,079
PIEPER, HEINZ P .....	ENERGY OUTPUT AND EFFICIENCY OF LEFT VENTRICLE .....	1R01 HL18933-01	32,314
RHEINS, MELVIN S .....	LYMPHOID LEUKEMIA: IMMUNE RNA THERAPY .....	2R01 CA13752-04	65,564
RHEINS, MELVIN S .....	LYMPHOID LEUKEMIA: IMMUNE RNA THERAPY .....	5R01 CA13752-05	63,012
RICHARDSON, KEITH E .....	OXALIC ACID METABOLISM AND PRIMARY HYPEROXALURIA .....	5R01 AM12960-07	25,252
RIESKE, JOHN S .....	FT-INFRARED SPECTROSCOPY OF HEART MUSCLE ENERGETICS .....	5R01 HL18304-02	30,001
ROYER, GARFIELD P .....	IMMOBILIZED ENZYMES, APPLICATIONS IN PROTEIN CHEMISTRY .....	5R01 GM19507-05	43,232
SAIDUDDIN, SYED .....	STUDIES ON THE EFFECT OF OBESITY ON REPRODUCTION .....	5R01 HD08576-02	18,332
SMECHTER, HAROLD .....	SYNTHESIS AND CHEMISTRY OF DIAZO COMPOUNDS .....	5R01 CA11185-08	51,062
SMITH, C ROGER .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05463-14	33,806
SPRECHER, HOWARD W .....	POLYUNSATURATED FATTY ACID INTERCONVERSIONS .....	5R01 AM09758-11	30,209
SPRECHER, HOWARD W .....	EFFECTS OF DIETARY CHANGE ON PHOSPHOLIPID METABOLISM .....	1R01 AM18844-01	33,566
ST PIERRE, RONALD L .....	MECHANISMS OF LYMPHOID CELL DIFFERENTIATION .....	1R01 CA19346-01	47,653
STONER, CLINTON D .....	STRUCTURE AND FUNCTION OF HEART MITOCHONDRIA .....	5R01 HL18038-02	59,147
VASKO, JOHN S .....	PHYSIOLOGY & HISTOPATHOLOGY OF ARTERIALIZED VEIN GRAFTS .....	5R01 HL17337-02	61,849
WEBB, THOMAS E .....	POST-TRANSCRIPTIONAL CONTROL IN EUKARYOTIC CELLS .....	5R01 CA12411-05	49,814
WEBB, THOMAS E .....	ABERRANT GENE EXPRESSION DURING CHEMOTHERAPY .....	2R01 CA13718-04	37,360
WILSON, HENRY E .....	SOUTHWEST ONCOLOGY GROUP .....	5R10 CA04920-17	96,843
WITIAK, DONALD T .....	HYPOCHOLESTEROLEMIC AGENTS: STEREOCHEMICAL STUDIES .....	5R01 HL12740-08	79,172
WITIAK, DONALD T .....	PSYCHOACTIVE, ANTICONVULSANT, ANTIPARKINSONISM DRUGS .....	5R01 NS10203-04	45,703
WOLFE, DOUGLAS A .....	NONPARAMETRIC PARTIALLY SEQUENTIAL PROCEDURES .....	1R01 GM23053-01	29,382
WYMAN, MILTON .....	CONGENITAL GLAUCOMA: A DEVELOPMENTAL STUDY .....	5R01 EY01184-03	71,046
YEARY, ROGER A .....	COMPARATIVE STUDIES IN PERINATAL TOXICOLOGY .....	2R01 HD03867-07	89,709
YOHN, DAVID S .....	CANCER CENTER SUPPORT GRANT .....	5P30 CA16058-03	792,420
ZWILLING, BRUCE S .....	IMMUNOPROPHYLAXIS AND IMMUNOTHERAPY OF LUNG CANCER .....	5R01 CA16342-03	28,803
ORGANIZATION TOTAL	98 6,628,188		

## DAYTON

### CHILDREN'S MEDICAL CENTER ZIP CODE 45404

ISRAEL, HARRY, III .....	SEQUENCES IN CRANIOFACIAL MALFORMATION .....	7R01 HD10861-01	48,441
ORGANIZATION TOTAL	1 48,441		

### UNIVERSITY OF DAYTON ZIP CODE 45469

SCHWELTZ, FAYE D .....	CYCLIC NUCLEOTIDES, ESPECIALLY CAMP, IN EUCLERA .....	1R01 GM22611-01	34,116
ORGANIZATION TOTAL	1 34,116		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
<b>WRIGHT STATE UNIVERSITY</b>	<b>ZIP CODE 45431</b>		
BATRA, PREM P.....	BIOSYNTHESIS OF CAROTENES IN MYCOBACTERIA.....	5R01 AI10517-03	25,161
BATTINO, RUBIN.....	SOLUBILITY OF GASES IN WATER AND CYCLIC SOLVENTS.....	5R01 GM14710-09	39,368
COLBERT, CHARLES.....	SYSTEM FOR ASSESSING SKELETAL HEALTH FROM RADIOGRAPHS.....	5R01 AM16475-03	117,319
COLBERT, CHARLES.....	RADIOLOGICAL BONE DENSITY CHANGES IN LEAD POISONING.....	2R01 ES00831-03	68,565
CUMMINGS, SUE C.....	REACTIONS OF POLYDENTATE THIOIMINATO METAL COMPLEXES.....	3R01 HL15640-03S2	8,779
CUMMINGS, SUE C.....	THERMODYNAMIC STUDIES ON MODEL OXYGEN CARRIERS.....	2R01 HL15640-04	65,476
HUTCHINGS, BRIAN L.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR07155-01	28,027
KANTOR, GEORGE J.....	EFFECTS OF RADIATION ON HUMAN CELLS CULTURED IN VITRO.....	5R01 CA16477-02	31,302
KEZDI, PAUL.....	BARORECEPTOR REGULATION IN CARDIOVASCULAR DISEASE.....	3R01 HL15004-03S1	4,641
STUHLMAN, ROBERT A.....	LABORATORY ANIMAL RESOURCES FACILITY IMPROVEMENT.....	1P40 RR01034-01	178,240
ORGANIZATION TOTAL	10	566,878	
<b>DELAWARE</b>			
<b>OHIO WESLEYAN UNIVERSITY</b>	<b>ZIP CODE 43015</b>		
BAHRICK, HARRY P.....	RECOGNITION AND RECALL DURING ACQUISITION AND RETENTION.....	3R01 HD00926-14S1	3,491
BAHRICK, HARRY P.....	RECOGNITION AND RECALL DURING ACQUISITION AND RETENTION.....	2R01 HD00926-15	33,974
ORGANIZATION TOTAL	2	37,465	
<b>GRANVILLE</b>			
<b>DENISON UNIVERSITY</b>	<b>ZIP CODE 43023</b>		
WINDLE, WILLIAM F.....	CENTRAL NERVOUS REGENERATION: HORMONAL INFLUENCES.....	3R01 NS11507-02S2	2,071
WINDLE, WILLIAM F.....	CENTRAL NERVOUS REGENERATION: HORMONAL INFLUENCES.....	5R01 NS11507-03	24,173
ORGANIZATION TOTAL	2	26,244	
<b>KENT</b>			
<b>KENT STATE UNIVERSITY</b>	<b>ZIP CODE 44240</b>		
DOANE, J WILLIAM.....	SELF AND RESTRICTED DIFFUSION IN THE BILAYER MEMBRANE.....	1R01 GM22599-01	45,023
ROE, BRUCE A.....	THE ROLE OF MODIFIED NUCLEOTIDES IN MAMMALIAN TRNA.....	5R01 GM21405-02	25,754
ORGANIZATION TOTAL	2	70,777	
<b>OBERLIN</b>			
<b>OBERLIN COLLEGE</b>	<b>ZIP CODE 44074</b>		
SEGAL, DAVID.....	EFFICIENCY ASPECTS OF URBAN SIZE: THE FEDERAL IMPACT.....	3R01 HD08943-01S1	4,055
SEGAL, DAVID.....	INTER-URBAN MIGRATION AND LABOR MARKET EFFICIENCY.....	2R01 HD08943-02	30,522
ORGANIZATION TOTAL	2	34,577	
<b>TOLEDO</b>			
<b>MEDICAL COLLEGE OF OHIO AT TOLEDO</b>	<b>ZIP CODE 43614</b>		
ASKARI, AMIR.....	CARDIAC GLYCOSIDES MECHANISMS OF CELLULAR ACTIONS.....	1R01 HL19129-01	65,967
ASKARI, AMIR.....	CARDIAC GLYCOSIDES MECHANISMS OF CELLULAR ACTIONS.....	5R01 HL19129-02	70,909
BRAND, PAUL H.....	LACTATE TRANSPORT IN ISOLATED PERFUSED RENAL TUBULE.....	1R01 AM19350-01	45,388
BUDD, GEOFFREY C.....	FLUOROPHOSPHATE-SENSITIVE ESTERASES IN THE LIVER.....	5R01 AM16537-03	60,318
CHAKRABORTY, JYOTSNA.....	NUCLEOTIDE CYCLASE ACTIVITY IN HUMAN AND MOUSE TESTES.....	1R01 HD10107-01	36,679
CLIFFORD, DONALD H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05700-07	57,659
FABER, LEE E.....	PROGESTERONE RECEPTORS.....	5R01 HD09367-02	66,512
FREIMER, EARL H.....	STREPTOCOCCI AND HEART: CELL-MEDIATED CROSS-REACTIONS.....	1R01 HL19234-01	56,980
HAUMAN, ROBERT L.....	ROLE OF ENZYMES IN CHOLECYSTITIS AND CHOLELITHIASIS.....	5R01 AM16049-03	27,829
HOWARD, JOHN M.....	STUDY OF PANCREATITIS AND ITS TREATMENT.....	5R01 AM17789-03	92,837
LONG, CALVIN L.....	METABOLIC RESPONSE TO TRAUMA.....	1P01 GM23065-01	287,902
MANNING, MAURICE.....	DESIGN AND SYNTHESIS OF NEUROHYPOPHYSIAL PEPTIDES.....	5R01 HD06351-05	64,425
MC CORQUODALE, D JAMES.....	REGULATORY MECHANISMS OF VIRAL INFECTIONS.....	5R01 AI13166-02	66,370
MC GRADY, ANGELE V.....	ELECTROPHYSIOLOGY OF SPERMATOZOAN DIFFERENTIATION.....	1R01 HD09710-01A1	38,537



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OHIO—Continued</b>			
MULROW, PATRICK J.....	PROSTAGLANDINS AND HYPERTENSION.....	7R01 HL19229-01	99,466
MULROW, PATRICK J.....	ETIOLOGICAL FACTORS IN HYPERTENSION.....	7R01 HL19644-01	108,797
NELSON, LEONARD.....	SUBMICROSCOPIC BASES OF MALE INFERTILITY.....	5R01 HD03266-08	77,509
PEARLMUTTER, ANNE F.....	HORMONE INTERACTIONS STUDIED BY RELAXATION TECHNIQUES.....	5R01 AM18383-02	31,376
PINHEIRO, MARILYN L.....	EEG AND BEHAVIORAL STUDIES OF AUDITORY PERCEPTION.....	5R01 NS12234-02	33,905
RAPP, JOHN P.....	BIOCHEMICAL PROBLEMS WITH ALDOSTERONE AND DOC.....	7R01 HL20176-01	154,173
REIMANN, ERWIN M.....	BIOCHEMICAL ROLE OF CYCLIC AMP IN THE GASTRIC MUCOSA.....	5R01 AM15611-05	50,100
REIMANN, ERWIN M.....	REGULATION OF GLYCOGEN SYNTHASE BY PROTEIN KINASES.....	1R01 AM19231-01	49,079
SAFFRAN, JUDITH.....	PROGESTERONE BINDING AND METABOLISM IN UTERINE NUCLEI.....	5R01 HD09359-02	67,580
SAFFRAN, MURRAY.....	CORTICOTROPIN-RELEASING FACTOR PREPARATION & PROPERTIES.....	1R01 AM18913-01	56,101
SCHLENDER, KEITH K.....	REGULATION OF THE RENAL GLYCOGEN SYNTHASE SYSTEM.....	5R01 AM14723-06	31,997
SKEEL, ROLAND T.....	IMMUNOTHERAPY OF ACUTE LEUKEMIA.....	7R01 CA21064-01	30,251
SOLOFF, MELVYN S.....	THE MECHANISM OF ACTION OF OXYTOCIN ON THE UTERUS.....	5R01 HD08406-03	42,186
TIDRICK, ROBERT T.....	CLINICAL CANCER EDUCATION.....	5R25 CA17989-02	45,938
TURNER, JOHN W, JR.....	HORMONAL CONTROL OF SEXUAL DIFFERENTIATION OF THE BRAIN.....	5R01 HD09429-02	31,335
WUJ, TING-CHI.....	PROPERTIES AND FUNCTIONS OF NEUROSECRETORY GRANULES.....	5R01 NS12183-02	40,071
ORGANIZATION TOTAL	30	1,988,176	
<b>WILBERFORCE</b>			
<b>CENTRAL STATE UNIVERSITY</b>	<b>ZIP CODE 45384</b>		
JOHNSON, MELVIN A, JR.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08052-05	36,708
ORGANIZATION TOTAL	1	36,708	
<b>WOOSTER</b>			
<b>COLLEGE OF WOOSTER</b>	<b>ZIP CODE 44691</b>		
HINTON, CLAUDE W.....	CHROMOSOME BEHAVIOR IN DROSOPHILA.....	5R01 GM16536-08	19,898
ORGANIZATION TOTAL	1	19,898	
<b>OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER</b>	<b>ZIP CODE 44691</b>		
BOHL, EDWARD H.....	IMMUNITY AGAINST ENTERIC VIRAL INFECTIONS.....	2R01 AI10735-04	49,603
ORGANIZATION TOTAL	1	49,603	
<b>YELLOW SPRINGS</b>			
<b>CHARLES F. KETTERING FOUNDATION—RESEARCH LABORATORY</b>	<b>ZIP CODE 45387</b>		
FLEISCHMAN, DARRELL E.....	CYCLIC NUCLEOTIDE FUNCTION IN PHOTORECEPTORS.....	2R01 EY00847-04	30,128
ORGANIZATION TOTAL	1	30,128	
<b>FELS RESEARCH INSTITUTE</b>	<b>ZIP CODE 45387</b>		
ARMSTRONG, MARVIN D.....	UNIDENTIFIED AMINO ACIDS IN HUMAN BLOOD PLASMA.....	1R01 GM22433-01	35,659
FALKNER, FRANK.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05537-14	47,976
ISRAEL, HARRY, III.....	SEQUENCES IN CRANIOFACIAL MALFORMATION.....	5R01 HD09154-02	8,939
MC CALL, ROBERT B.....	PERCEPTUAL-COGNITIVE DEVELOPMENT IN HUMAN INFANTS.....	5R01 HD07372-03	35,122
ROBERTSON, RICHARD T.....	STRUCTURE AND FUNCTION OF ASCENDING RETICULAR SYSTEMS.....	5R01 NS12233-02	28,188
ROCHE, ALEXANDER F.....	PATTERNS OF DENTOCRANIOFACIAL GROWTH AND MATURATION.....	5R01 DE03472-05	65,015
ROCHE, ALEXANDER F.....	ASSESSMENT OF SKELETAL MATURITY.....	5R01 HD04629-06	82,972
ROCHE, ALEXANDER F.....	SUBCUTANEOUS FAT, BLOOD LIPIDS AND HEALTH.....	1R01 HD10246-01	403,891
SIERVOGEL, ROGER M.....	GENETICS OF HYPERTENSION AND ASSOCIATED VARIABLES.....	1R01 HL19931-01	167,841
VARANDANI, PARTAB T.....	REGULATION OF INSULIN DEGRADATION.....	3R01 AM03854-15S1	36,045
VARANDANI, PARTAB T.....	REGULATION AND FUNCTION OF INSULIN DEGRADATION.....	2R01 AM03854-16	72,329
VARANDANI, PARTAB T.....	REGULATION AND FUNCTION OF INSULIN DEGRADATION.....	5R01 AM03854-17	106,162
ORGANIZATION TOTAL	12	1,090,139	
<b>YOUNGSTOWN</b>			
<b>YOUNGSTOWN STATE UNIVERSITY</b>	<b>ZIP CODE 44503</b>		
DEL BENE, JANET E.....	MOLECULAR ORBITAL STUDIES OF HYDROGEN BONDING.....	5R01 GM19032-03	25,696

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator		Project title	Grant number	Dollars
OHIO—Continued -				
ORGANIZATION TOTAL	1	25,696		
STATE TOTAL	461	35,930,950		
OKLAHOMA				
DURANT				
SOUTHEASTERN OKLAHOMA STATE UNIVERSITY ZIP CODE 74701				
ROBINSON, JACK L.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08003-05	111,176	
ORGANIZATION TOTAL	1	111,176		
NORMAN				
UNIVERSITY OF OKLAHOMA ZIP CODE 73069				
BASTIAN, JOSEPH A.....	SENSORY PROCESSING IN THE CEREBELLUM.....	5R01 NS12337-02	19,649	
BURR, JOHN G.....	BIOLOGICAL FUNCTION OF CHEMICALLY MODIFIED PYRIMIDINES.....	2R01 GM19362-07A1	37,001	
DRYHURST, GLENN.....	ELECTROCHEMISTRY AND INTERFACIAL BEHAVIOR OF PURINES.....	5R01 GM21034-03	34,822	
HAINES, HOWARD.....	EFFECT OF WATER RESTRICTION ON BODY FLUID OF MICE.....	5R01 AM16237-03	22,696	
HUTCHISON, VICTOR H.....	ERYTHROCYTE PHOSPHATES AND VERTEBRATE GAS TRANSPORT.....	1R01 HL18082-01	42,242	
KAUL, PUSHKAR N.....	NANO-ASSAY FOR AMITRIPTYLENE IN BLOOD.....	5R01 NS12004-02	18,636	
LARSH, HOWARD W.....	ISOLATION OF A SKIN TEST ANTIGEN FOR BLASTOMYCOSIS.....	5R01 AI11610-03	22,394	
LARSH, HOWARD W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07078-03	34,230	
SCHMITZ, FRANCIS J.....	ANTITUMOR AGENTS FROM MARINE ORGANISMS.....	5R01 CA17256-02	45,672	
SETO, FRANK.....	INBRED CHICKEN STRAINS FOR IN VIVO CULTURE STUDIES.....	5R01 AI12488-02	2,000	
THOMPSON, JAMES N. JR.....	FREQUENCIES OF MUTATOR FACTORS IN NATURAL POPULATIONS.....	1R01 ES01439-01	50,152	
VAN DER HELM, DICK.....	STRUCTURE OF ANTICANCER AGENTS BY X-RAY DIFFRACTION.....	5R01 CA17562-02	43,812	
VAN DER HELM, DICK.....	STRUCTURE OF SIDEROCHROMES AND PEPTIDE CHELATES.....	5R01 GM21822-02	53,183	
WEINHEIMER, ALFRED J.....	BIOACTIVE COMPOUNDS FROM MARINE ORGANISMS.....	5R01 GM20250-02	25,945	
ORGANIZATION TOTAL	14	452,434		
OKLAHOMA CITY				
OKLAHOMA MEDICAL RESEARCH FOUNDATION ZIP CODE 73104				
ALAUPOVIC, PETAR.....	COMPOSITION AND STRUCTURE OF PLASMA LIPOPROTEINS.....	5R01 HL06221-15	103,500	
BOTTOMLEY, RICHARD H.....	SOUTHWEST ONCOLOGY GROUP.....	5R10 CA16957-02	117,981	
BRADFORD, REAGAN H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05538-14	66,978	
CARPENTER, MARY P.....	METABOLISM OF THE TESTIS IN VITAMIN E DEFICIENCY.....	5R01 HD05641-14	37,211	
CARPENTER, MARY P.....	METABOLISM OF THE TESTIS IN VITAMIN E DEFICIENCY.....	5R01 HD05641-15	35,415	
CARUBELLI, RAOU L.....	PHYSIOLOGICAL ROLE OF MICROSOMAL SIALIC ACIDS.....	5R01 NS09176-13	23,292	
FLOYD, ROBERT A.....	CARCINOGEN FREE RADICALS IN ARYLAMINE METABOLISM.....	5R01 CA18591-02	41,148	
GANESAN, DEVAKI N.....	LIPID PROTEIN LIPASE AND RELATED LIPOLYTIC ACTIVITIES.....	5R01 HL15336-03	41,482	
JOHNSON, B CONNOR.....	GLYCOLIPID DERIVATIVES OF VITAMIN A.....	5R01 AM17211-03	41,151	
JOHNSON, B CONNOR.....	DIETARY CONTROL OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE.....	5R01 HL12138-06	54,868	
JOHNSON, B CONNOR.....	VITAMIN K AND HUMAN PROTHROMBIN.....	5R01 HL16515-03	34,059	
JOHNSON, B CONNOR.....	VITAMIN K ENZYME ACTIVATION OF FACTOR VII PRECURSOR.....	5R01 HL17619-02	38,922	
KOLLMORGEN, GERALD M.....	IMMUNOTHERAPY COMBINED WITH SURGERY AND CHEMOTHERAPY.....	5R01 CA14460-03	63,892	
LEE, DIANA M.....	STUDIES OF NORMAL AND ABNORMAL LOW DENSITY LIPOPROTEINS.....	5R01 HL14087-05	55,817	
MACK, DONALD O.....	DIETARY INDUCTION OF ATP-CITRATE LYASE.....	1R01 AM19072-01	35,143	
MC CAY, PAUL B.....	FATTY ACID METABOLISM IN TOCOPHEROL DEFICIENCY.....	3R01 AM06978-13S1	6,388	
MC CAY, PAUL B.....	LIPID PEROXIDATION: DIET ANTIOXIDANTS AND CARCINOGENS.....	2R01 AM06978-14	45,209	
MC CAY, PAUL B.....	OXIDASE INHIBITORS IN VITAMIN E DEFICIENCY.....	5R01 AM08397-16	42,636	
ONTKO, JOSEPH A.....	UPTAKE AND METABOLISM OF LIPIDS BY THE LIVER.....	2R01 HL13302-07	54,742	
TANG, JORDAN J.....	STUDIES OF THE COMPONENTS OF HUMAN GASTRIC JUICE.....	5R01 AM01107-20	67,040	
TANG, JORDAN J.....	STUDIES OF THE COMPONENTS OF HUMAN GASTRIC JUICE.....	5R01 AM01107-21	66,079	
TANG, JORDAN J.....	FACILITIES FOR THE STUDY OF THE PROPERTIES OF PROTEINS.....	5R01 AM06487-14	25,310	
TANG, JORDAN J.....	STRUCTURE AND FUNCTION OF MAMMALIAN CATHEPSIN D.....	5R01 GM20212-03	19,143	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OKLAHOMA—Continued</b>			
TANG, JORDAN J.	ACID PROTEASES, STRUCTURE-FUNCTION AND BIOLOGY	1R13 GM23661-01	5,000
WHAYNE, THOMAS F, JR.	STUDIES ON METABOLISM OF APOLIPOPROTEIN A	5R01 HL18178-02	45,369
ORGANIZATION TOTAL	25	1,167,775	
<b>UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER ZIP CODE 73190</b>			
ALLISON, JOHN E.	TUMORIGENESIS IN ANDROGEN INSENSITIVE RATS	1R01 CA17855-01A1	24,045
BOGARDUS, CARL R, JR.	RADIATION THERAPY ONCOLOGY GROUP	2R10 CA12250-05	48,255
BULMER, GLENN S.	PATHOGENESIS OF CRYPTOCOCCOSIS	2R01 AI05022-13	35,020
COLEMAN, RONALD L.	'METALLOTHIONEIN' IN PHYSIOLOGY AND TOXICOLOGY	5R01 ES00830-02	46,598
DELANEY, ROBERT	STRUCTURE OF RHIZOPUS CHINENSIS ACID PROTEASE	1R01 GM22902-01	39,075
ESMON, CHARLES T.	FACTOR V: ISOLATION, CHARACTERIZATION AND FUNCTION	1R01 HL19397-01	54,480
HOWES, ROBERT I, JR.	ROOT FORMATION IN LOWER VERTEBRATE TOOTH TRANSPLANTS	5R01 DE03709-03	16,228
HUMPHREY, G BENNETT	COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	5R10 CA11233-08	152,285
HUMPHREY, G BENNETT	SUPPORT FOR CANCER RESEARCH CENTER	1P30 CA19437-01	188,963
KEM, DAVID C.	INTRACELLULAR ACTION OF ALDOSTERONE IN HYPERTENSION	1R01 HL19279-01	107,181
MAYES, JARY S.	REGULATION OF GALACTOSE METABOLISM IN ANIMALS	5R01 AM13325-06	46,420
MC CALLUM, RODERICK E.	CARBOHYDRATE LOSS DURING EXPERIMENTAL ENDOTOXEMIA	5R01 AI11238-03	23,543
METCOFF, JACK	PRESERVATION AND REGENERATION OF ISOLATED KIDNEYS	3R01 AM15791-03S1	13,099
METCOFF, JACK	MATERNAL MALNUTRITION AND FETAL DEVELOPMENT	2R01 HD06915-04	236,750
POLLAY, MICHAEL	TRANSCAPILLARY EXCHANGE IN EXPERIMENTAL BRAIN TUMORS	7R01 CA21427-01	43,948
RILEY, HARRIS D, JR.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00062-14	488,127
SOKATCH, JOHN R.	METABOLISM OF BRANCHED CHAIN AMINO ACIDS	5R01 AI11019-03	25,055
SOKATCH, JOHN R.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05411-15	142,234
TAYLOR, FLETCHER B, JR.	THROMBOSIS AND PLASMA PROTEINS	5P01 HL17812-02	392,625
THURMAN, WILLIAM G.	EXPLORATORY STUDIES FOR CANCER RESEARCH	3P20 CA13749-02S2	33,484
ORGANIZATION TOTAL	20	2,157,415	
<b>STILLWATER</b>			
<b>OKLAHOMA STATE UNIVERSITY ZIP CODE 74074</b>			
BEAMES, CALVIN G, JR.	TRANSPORT MECHANISMS OF THE INTESTINE OF ASCARIS SUUM	5R01 AI12783-02	35,154
BERLIN, KENNETH D.	PROPERTIES OF CYCLIC P CPDS-POTENTIAL CARCINOSTATS	5R01 CA11967-12	36,470
BERLIN, KENNETH D.	HETEROSTEROIDS - ANTICANCER AGENT POTENTIATORS	5R01 CA14343-03	39,893
BUCKNER, RALPH G.	ANIMAL HEMOPHILIA RESOURCE COLONY	5R01 HL16622-09	49,481
CARRAWAY, KERMIT L.	GLYCOPROTEIN SHEDDING AND MAMMARY TUMOR METASTASIS	1R01 CA19985-01	63,224
EDMISON, MARVIN T.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07077-11	21,265
GARNER, DUANE L.	ENZYMOLOGY OF MAMMALIAN SPERM ACROSOMES	5R01 HD07481-05	41,254
JENNINGS, DAVID P.	SUPRAOPTIC NEUROENDOCRINE MECHANISMS AND CELL TYPES	5R01 NS11978-02	35,232
JONES, E WYNN	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05567-12	40,121
LIAO, TA-HSIU	STRUCTURE-FUNCTION RELATIONSHIPS OF DEOXYRIBONUCLEASE	1R01 GM22415-01	35,052
MAYER, GEORGE P.	CALCIUM HOMEOSTASIS: ENDOCRINE ASPECTS	5R01 AM16983-04	63,397
MONLUX, ANDREW W.	SUPPORT FOR REGISTRY OF ANIMAL NEOPLASMS	5R01 CA13184-05	107,617
NELSON, ELDON C.	THE METABOLISM OF THE VITAMINS A	5R01 AM09191-10	41,857
NELSON, ELDON C.	THE METABOLISM OF THE VITAMINS A	5R01 AM09191-11	43,845
NEWCOMER, WILBUR S.	HEREDITARY AUTOIMMUNE THYROIDITIS IN OBESE CHICKS	5R01 AM16918-03	22,258
ORTS, RICHARD J.	ANTIFERTILITY EFFECTS OF A PINEAL ANTIGONADOTROPIN	5R01 HD08745-02	30,621
SPIVEY, HOWARD O.	PROPERTIES OF CONCENTRATED ENZYME SOLUTIONS	5R01 GM16916-05	21,124
ORGANIZATION TOTAL	17	727,865	
<b>TAHLEQUAH</b>			
<b>NORTHEASTERN OKLAHOMA STATE UNIVERSITY ZIP CODE 74464</b>			
VAN DENBOS, GARY	MINORITY STUDENT SCIENCE RESEARCH PROGRAM	5S06 RR08123-03	77,632
ORGANIZATION TOTAL	1	77,632	
STATE TOTAL	78	4,694,297	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OREGON</b>			
<b>BEAVERTON</b>			
<b>OREGON GRADUATE CENTER FOR STUDY AND RESEARCH</b>		<b>ZIP CODE 97005</b>	
HAUSER, FRANK M.	POLYNUCLEAR ANTITUMOR ANTIBIOTICS: A NEW SYNTHESIS	1R01 CA18141-01	44,282
HURST, JAMES K.	FAST-KINETIC STUDIES OF ENZYME-CATALYZED REACTIONS	5R01 GM18458-05	29,982
HURST, JAMES K.	MECHANISMS OF BIOLOGICAL REDOX REACTIONS OF COPPER	5R01 GM20943-03	27,394
LOEHR, THOMAS M.	LASER RAMAN SPECTROSCOPY OF METALLOPROTEINS	5R01 GM18865-05	48,471
SWANSON, LYNNWOOD W.	A SCANNING FIELD ION MICROSCOPE	1R01 GM22972-01	66,457
ORGANIZATION TOTAL	5	216,586	
<b>CORVALLIS</b>			
<b>OREGON STATE HIGHER EDUCATION SYSTEM—OREGON STATE UNIVERSITY</b>		<b>ZIP CODE 97331</b>	
ANDERSON, SONIA R.	FLUORESCENCE STUDIES OF ENZYME STRUCTURE AND FUNCTION	5R01 AM13912-06	24,551
BAYNE, CHRISTOPHER J.	SCHISTOSOMIASIS: CELL BIOLOGY OF THE INTERMEDIATE HOST	1R22 AI13295-01	80,462
BEAUDREAU, GEORGE S.	METABOLIC CHANGES INDUCED BY TUMOR VIRUS	5R01 CA06999-13	66,498
BROWN, LYLE R.	RNA POLYMERASE GENES: STRUCTURE, FUNCTION, AND CONTROL	2R01 GM19617-04	63,087
CARDENAS, M JANET M.	INBORN ERRORS AND PYRUVATE KINASE ISOZYMES	5R01 AM15645-05	43,100
CARDENAS, M JANET M.	INBORN ERRORS AND PYRUVATE KINASE ISOZYMES	5R01 AM15645-06	46,389
DANIELS, MALCOLM	ROOM TEMPERATURE FLUORESCENCE OF NUCLEIC ACIDS & BASES	5R01 GM20610-03	15,218
DOST, FRANK N.	STEADY-STATE INTOXICATION BY SIMPLE HYDRAZINES	5R01 ES00841-03	42,258
FANG, SHENG C.	PHOTOREACTION AND HERBICIDE METABOLISM	5R01 ES00654-03	22,056
FREED, VIRGIL H.	TOXICOLOGY OF ENVIRONMENTAL CHEMICALS	5P01 ES00040-12	435,133
FREED, VIRGIL H.	ENVIRONMENTAL HEALTH SCIENCES CENTER	2P30 ES00210-09	800,840
GODWIN, ROBERT K.	MODELS OF POPULATION POLICY DETERMINANTS IN THE LDC'S	7R01 HD10660-01	16,111
ISENBERG, IRVIN	HISTONE INTERACTIONS AND CONFORMATION STUDIES	5R01 CA10872-09	92,491
JOHNSON, WALTER C, JR.	NUCLEIC ACIDS: THEIR CONFORMATION AND FUNCTION	5R01 GM21479-02	38,817
KRUEGER, JAMES H.	OXIDATION OF COORDINATED CYSTEINE AND CYSTEAMINE	5R01 GM22063-02	17,206
MILLS, DALLICE I.	RIBOSOME ACTIVITY AND TRANSCRIPTION DURING MEIOSIS	7R01 GM24040-01	38,125
NEUBURGH, ROBERT W.	BIOCHEMISTRY OF NEURAL DEVELOPMENT	2R01 NS09161-20	56,712
PAKS, LEO W.	ANALYSIS OF THE STEROL COMPONENTS OF YEAST	5R01 AM05190-15	38,601
PATTON, NEPHI M.	LABORATORY ANIMAL RESOURCES IMPROVEMENT PROGRAM	5P40 RR00914-02	33,855
PEARSON, GEORGE D.	REPLICATION MAP OF AN ONCOGENIC VIRUS	5R01 CA17699-02	56,155
QUATRANO, RALPH S.	BIOCHEMICAL BASIS FOR ESTABLISHMENT OF CELL POLARITY	5R01 GM19247-05	43,663
REED, DONALD J.	BIOCHEMISTRY OF PROCARBAZINE AND RELATED HYDRAZINES	5R01 CA08348-11	41,720
SCHAUP, HENRY W.	MOLECULAR BASIS FOR PROTEIN-NUCLEIC ACID INTERACTIONS	5R01 GM21380-03	20,039
SINNHUBER, RUSSELL O.	METABOLISM AND CARCINOGENICITY OF AFLATOXINS	5R01 ES00541-06	100,253
SINNHUBER, RUSSELL O.	METABOLISM AND COCARCINOGENICITY OF CYCLOPROPENES	5R01 ES00550-06	100,557
TERRIERE, LEON C.	DETOXICATION MECHANISMS IN INSECTS	5R01 ES00362-18	56,395
THIES, RICHARD W.	RING EXPANSION ROUTES TO 8,9,13,14-DISECOSTEROIDS	2R01 HD08550-03	31,039
VAN HOLDE, KENSAL E.	SUBUNIT STRUCTURE OF CHROMATINS	1R01 GM22916-01	43,746
VAN HOLDE, KENSAL E.	STRUCTURE AND FUNCTION OF RESPIRATORY PROTEINS	5R01 HL12326-09	54,063
WEDMAN, E EDWARD	DEVELOPMENT OF LABORATORY ANIMAL DIAGNOSTIC SERVICES	5P40 RR00726-03	24,146
WHANGER, PHILIP D.	EFFECTS OF DIETARY FACTORS ON METALLOTHIONEIN LEVELS	1R01 AM19285-01	71,634
WHANGER, PHILIP D.	METABOLIC RELATIONSHIPS OF SELENIUM IN MYOPATHIES	5R01 NS07413-09	56,530
WHITE, JAMES D.	SYNTHESIS OF MACROLIDE ANTIBIOTICS	2R01 AI10964-03	66,120
YOUNG, ROY A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07079-11	114,268
ORGANIZATION TOTAL	34	2,851,838	
<b>EUGENE</b>			
<b>OREGON RESEARCH INSTITUTE</b>		<b>ZIP CODE 97401</b>	
HOFFMAN, PAUL J.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05612-08	57,986
ORGANIZATION TOTAL	1	57,986	
<b>OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON</b>		<b>ZIP CODE 97403</b>	
ALLEN, DONALD M.	PHYSIOLOGY OF VISUAL PIGMENTS	7R01 EY01741-01	18,598
ALLEN, DONALD M.	PHYSIOLOGY OF VISUAL PIGMENTS	5R01 EY01741-02	21,834



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OREGON—Continued</b>			
BAJER, ANDREW S.....	STUDIES ON THE FUNCTION OF THE MITOTIC SPINDLE.....	5R01 GM21741-02	65,370
BERNHARD, SIDNEY A.....	KINETIC ANALYSIS OF ENZYME CATALYSIS.....	2R01 GM10451-12	55,309
BERNHARD, SIDNEY A.....	MOLECULAR INTERACTIONS IN SYNAPTIC TRANSMISSION.....	5R01 NS12240-02	26,177
BOEKLHEIDE, VIRGIL C.....	SYNTHESES OF POTENTIAL ANTITUMOR AND ANTIVIRAL AGENTS.....	5R01 CA15004-03	48,084
DORJAHN, VERNON R.....	POPULATION STUDY OF THE TEMPE OF SIERRA LEONE.....	1R01 HD09000-01	42,850
GORDON-LICKEY, BARBARA.....	SUPERIOR COLLICULUS AND THE CONTROL OF EYE MOVEMENTS.....	5R01 EY00125-07	47,235
GORDON-LICKEY, MARVIN.....	NEURAL MECHANISMS OF CIRCADIAN RHYTHMS.....	5R01 NS12374-02	44,599
GRIFFITH, O HAYES.....	SPIN LABELING AND MEMBRANE STRUCTURE.....	5R01 CA10337-10	82,426
GRIFFITH, O HAYES.....	PHOTOELECTRON MICROSCOPY OF MAMMALIAN MEMBRANES.....	2R01 CA11695-07	86,862
HERBERT, EDWARD.....	NEUROENDOCRINE STUDIES IN CELL CULTURE SYSTEMS.....	5R01 AM16879-03	57,230
HERSKOWITZ, IRA.....	PHAGE-HOST INTERACTIONS AND CONTROL OF PHAGE GROWTH.....	2R01 AI11344-04	58,079
HERSKOWITZ, IRA.....	GENETIC CONTROL OF MATING IN YEAST.....	1R01 AI13462-01	54,741
KEANA, JOHN F.....	NEW SPIN-LABELS FOR STUDYING BIOLOGICAL MEMBRANES.....	5R01 CA17338-02	30,686
LICHTENSTEIN, EDWARD.....	SMOKING TREATMENT FOLLOW-UP AND RESUMPTION PROCESSES.....	1R01 HL18437-01	5,992
MARROCCO, RICHARD T.....	PHYSIOLOGY OF VISUAL AFFERENT PATHWAYS.....	5R01 EY01286-03	26,176
MATTHEWS, BRIAN W.....	X-RAY STRUCTURAL STUDIES OF PROTEINS.....	2R01 GM20066-04	44,059
MATTHEWS, BRIAN W.....	STRUCTURE, FUNCTION AND STABILITY OF T4 PHAGE LYSOZYME.....	5R01 GM21967-02	61,844
MUNZ, FREDERICK W.....	GENETICS OF VISUAL PIGMENTS.....	5R01 EY00324-11	38,097
NOVICK, AARON.....	MOLECULAR BASIS OF CELLULAR REGULATORY MECHANISMS.....	2P01 GM15423-09	175,772
NOVICK, AARON.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07080-11	93,930
NOVITSKI, EDWARD.....	THE SYNTHESIS AND ANALYSIS OF CHROMOSOMES.....	5R01 GM18678-05	37,926
NOVITSKI, EDWARD.....	THE SYNTHESIS AND ANALYSIS OF CHROMOSOMES.....	5R01 GM18678-06	47,187
PETICOLAS, WARNER L.....	LASER RAMAN SCATTERING FROM BIOLOGICAL MACROMOLECULES.....	5R01 GM15547-09	55,505
PETICOLAS, WARNER L.....	LASER RAMAN SCATTERING FROM BIOLOGICAL MACROMOLECULES.....	5R01 GM15547-10	75,988
POSTLETHWAIT, JOHN H.....	GENE AND HORMONE CONTROL OF DROSOPHILA EGG PROTEINS.....	5R01 GM21548-02	51,796
SCHILLMAN, JOHN A.....	INTERACTIONS OF NUCLEOTIDES AND PROTEINS.....	5R01 GM20195-19	56,965
SEDEROFF, RONALD R.....	RNA SYNTHESIS DURING DIFFERENTIATION.....	7R01 GM23334-01	40,954
STAHL, FRANKLIN W.....	RECOMBINATIONAL INTERMEDIATES IN PHAGE LAMBDA.....	2R01 GM20373-03	24,858
STREISINGER, GEORGE.....	MOLECULAR MECHANISMS OF MUTATION.....	5R01 GM19795-04	47,203
STREISINGER, GEORGE.....	GENETIC STUDIES WITH ZEBRA FISH (BRACHYDANIO RERIO).....	1R01 GM22731-01	102,928
VON HIPPEL, PETER H.....	STRUCTURE AND RELATIONS OF PROTEINS AND NUCLEIC ACIDS.....	5R01 GM15792-10	85,852
WESTON, JAMES A.....	SURFACE MACROMOLECULAR CHANGES IN CELL TRANSFORMATION.....	5R01 CA16287-02	62,094
WESTON, JAMES A.....	EXTRACELLULAR MATRIX AND MORPHOGENESIS IN MUTANT MICE.....	1R01 DE04316-01	31,080
WOLFE, RAYMOND G, JR.....	CATALYTIC MECHANISM STUDIES, MALIC DEHYDROGENASE.....	5R01 GM21460-18	38,637
ORGANIZATION TOTAL	36	1,944,923	

## MONMOUTH

### OREGON STATE HIGHER EDUCATION SYSTEM—OREGON COLLEGE OF EDUCATION ZIP CODE 97361

BANDICK, NEAL R.....	SPONTANEOUS VASCULAR TONE DURING RENAL HYPERTENSION.....	3R01 HL14874-03S1	1,269
ORGANIZATION TOTAL	1	1,269	

## PORTLAND

### GOOD SAMARITAN HOSPITAL AND MEDICAL CENTER ZIP CODE 97210

BARMACK, NEAL H.....	THE PERIPHERAL COMPONENTS OF EYE MOVEMENT CONTROL.....	5R01 EY00848-05	65,678
BELL, CURTIS C.....	PHYSIOLOGICAL RELATIONS BETWEEN CEREBELLAR ELEMENTS.....	5R01 NS06728-08	48,499
DOW, ROBERT S.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05593-09	21,334
KAPLAN, MICHAEL W.....	OPTICAL STUDIES OF PHOTORECEPTOR FUNCTION.....	1R01 EY01779-01	62,188
NASHNER, LEWIS M.....	STUDIES ON CONTROL OF HUMAN POSTURE.....	1R01 NS12661-01	39,561
ORGANIZATION TOTAL	5	237,260	

### KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE ZIP CODE 97215

GLASS, ANDREW G.....	WESTERN CANCER STUDY GROUP.....	3R10 CA14415-03S2	7,933
ORGANIZATION TOTAL	1	7,933	

### MEDICAL RESEARCH FOUNDATION OF OREGON ZIP CODE 97225

BEATTY, CLARISSA H.....	EFFECTS OF PROSTAGLANDINS ON MYOMETRIAL METABOLISM.....	3R01 HD06069-04S1	7,950
BEATTY, CLARISSA H.....	EFFECTS OF PROSTAGLANDINS ON MYOMETRIAL METABOLISM.....	2R01 HD06069-05	36,836

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OREGON—Continued</b>			
BEATTY, CLARISSA H.....	SUBCELLULAR METABOLISM - FETAL AND ADULT MUSCLE.....	5R01 HD06425-05	46,343
BLUEMLE, LEWIS A, JR.....	SUPPORT FOR REGIONAL PRIMATE RESEARCH CENTER.....	5P40 RR00163-17	2,713,329
FAHRENBACH, WOLF H.....	ORGANIZATION OF VISUAL CENTERS IN THE LIMULUS BRAIN.....	5R01 EY00392-09	22,626
HOWARD, CHARLES F, JR.....	RISK FACTORS AND ATHEROSCLEROSIS IN DIABETIC MONKEYS.....	5R01 HL16661-03	67,867
KITTINGER, GEORGE W.....	ENDOCRINE CONTROL OF DEVELOPMENT IN THE RHESUS FETUS.....	1R01 HD09820-01	61,829
MALINOW, MANUEL R.....	DRUG EFFECTS ON CORONARY ATHEROSCLEROSIS.....	5R01 HL16587-02	95,009
MALLEY, ARTHUR.....	CLINICAL EVALUATION OF HAPTEN HYPOSENSITIZATION.....	5R01 AI09232-06	20,616
MONTAGNA, WILLIAM.....	THE BIOLOGY OF SKIN OF MAN AND OTHER PRIMATES.....	5P01 AM08445-12	234,720
MONTAGNA, WILLIAM.....	THE BIOLOGY OF SKIN OF MAN AND OTHER PRIMATES.....	5P01 AM08445-13	243,361
MONTAGNA, WILLIAM.....	ANNUAL SYMPOSIA ON BIOLOGY OF THE SKIN.....	5R13 AM09431-11	8,263
MONTAGNA, WILLIAM.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05694-07	120,933
NEURINGER, MARTHA D.....	BEHAVIORAL EFFECTS OF EARLY MALNUTRITION IN MONKEYS.....	5R22 HD07649-02	46,509
NORMAN, REID L.....	NEUROENDOCRINE CONTROL OF LH RELEASE IN THE HAMSTER.....	5R01 HD07499-02	32,259
NOVY, MILES J.....	ENDOCRINE AND VASCULAR RELATIONSHIPS IN PARTURITION.....	2R01 HD06159-04	78,625
PORTMAN, OSCAR W.....	EXPERIMENTAL VASCULAR SCLEROSIS.....	5R01 HL09744-12	125,914
RESKO, JOHN A.....	STEROID HORMONES AND FETAL DEVELOPMENT.....	5R01 HD07658-03	35,520
SPIES, HAROLD G.....	EVENTS THAT CONTROL FERTILIZATION.....	5P01 HD05965-06	499,429
SPIES, HAROLD G.....	NEURAL INFLUENCE ON HYPOPHYSEAL-GONADAL FUNCTION.....	5R01 HD07602-04	143,139
ORGANIZATION TOTAL	20	4,641,077	
<b>OREGON OPTOMETRIC CENTER ZIP CODE 97205</b>			
SCHOR, CLIFTON M.....	ABNORMAL EYE MOVEMENT IN STRABISMUS AND AMBLYOPIA.....	1R01 EY01692-01	45,114
ORGANIZATION TOTAL	1	45,114	
<b>OREGON STATE HIGHER EDUCATION SYSTEM—PORTLAND STATE UNIVERSITY ZIP CODE 97207</b>			
SMEJTEK, PAVEL.....	PESTICIDES AND TRANSPORT ACROSS BILAYER LIPID MEMBRANES.....	5R01 ES00937-03	39,162
ORGANIZATION TOTAL	1	39,162	
<b>OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON HEALTH SCIENCES CENTER ZIP CODE 97201</b>			
BENNETT, WILLIAM M.....	GENTAMICIN: NEPHROTOXICITY AND PHARMACOLOGY.....	1R01 GM22928-01	29,810
BENTLEY, J PETER.....	CANCER SPREADING FACTORS AS A TARGET FOR ZINC THERAPY.....	5R01 CA15290-03	55,467
BLACK, JOHN A.....	NATURE OF PYRUVATE KINASE ISOZYME CHANGE IN NEOPLASIA.....	5R01 CA15739-03	41,793
BLACK, JOHN A.....	THE ROLE OF PROTEIN DEGRADATION IN NEOPLASIA.....	5R01 CA16558-02	32,272
BROOKHART, JOHN M.....	NEURAL MECHANISMS OF POSTURAL CONTROL.....	5R01 NS04744-13	55,767
BRUMMETT, ROBERT E.....	KANAMYCIN-ETHACRYNIC ACID INDUCED COCHLEAR DAMAGE.....	1R01 NS12808-01	55,872
BURNS, ROBERT P.....	BIOCHEMICAL CYTOLOGY OF METABOLIC EYE DISEASES.....	3R01 EY00753-03S1	14,985
BURNS, ROBERT P.....	BIOCHEMICAL CYTOLOGY OF DISEASED AND HEALING CORNEA.....	2R01 EY00753-04	71,816
BURNS, ROBERT P.....	HEREDITARY CATARACT IN PEROMYSCUS.....	1R01 EY01726-01	28,734
CAMPBELL, ROBERT A.....	POLYAMINE RADIOIMMUNOASSAY IN CANCER.....	3R01 CA16328-02S2	15,431
CONNOR, WILLIAM E.....	DIETARY FACTORS, STEROL METABOLISM AND ATHEROSCLEROSIS.....	7R01 HL19130-01	277,083
CRITCHLOW, B VAUGHN.....	NEURAL REGULATION OF ANTERIOR PITUITARY.....	5R01 AM16794-04	59,325
CRITCHLOW, B VAUGHN.....	NEURAL REGULATION OF ANTERIOR PITUITARY.....	5R01 AM16794-05	57,963
DAWSON, PETER J.....	PATHOLOGY OF LYMPHOID NEOPLASMS DERIVED FROM T & B CELLS.....	5R01 CA15072-03	40,639
FABER, JAN J.....	PLACENTAL TRANSFER OF HYDROPHILIC MATERIALS.....	5R01 HD06689-04	24,611
FABER, JAN J.....	PRENATAL HEMODYNAMICS.....	5R01 HL13444-06	32,868
FEENEY, LYNETTE.....	SYNTHESIS AND PHAGOCYTOSIS IN OCULAR NEUROEPITHELIA.....	5R01 EY00715-05	45,314
FEENEY, LYNETTE.....	SULFATED GLYCOLIPIDS AND AQUEOUS HUMOR SECRETION.....	5R01 EY01638-02	38,360
FELLMAN, J H.....	AROMATIC AMINO ACID METABOLISM AND AROMATIC AMINES.....	5R01 NS01572-19	91,237
FIELDS, R WAYNE.....	PHYSIOLOGICAL BASIS OF DENTAL ELECTRICAL PAIN THERAPY.....	1R01 DE04281-01A1	48,949
FLETCHER, WILLIAM S.....	COOPERATIVE STUDY OF ONCOLOGY.....	3R10 CA12279-05S1	162,003
GABOUREL, JOHN D.....	IMMUNOSUPPRESSANT EFFECTS OF SEDATIVE HYPNOTIC DRUGS.....	3R01 CA14360-03S2	3,783
GREER, MONTE A.....	NEUROENDOCRINE AND THYROID PHYSIOLOGY.....	2R01 AM01447-21	138,970
HAMMERSTAD, JOHN P.....	AMINO ACIDS AS NEUROTRANSMITTERS.....	5R01 NS11264-03	34,570
HECHT, FREDERICK.....	CYTOGENETICS OF CLONAL NEOPLASIAS.....	5R01 CA16747-02	78,400
HECHT, FREDERICK.....	HUMAN CHROMOSOME STRUCTURE, FUNCTION AND BEHAVIOR.....	5R01 HD08236-02	68,464
HODGES, CLARENCE V.....	NATIONAL COLLABORATIVE STUDY OF CANCER OF THE BLADDER.....	5R26 CA15491-03	24,405
HOLMAN, CHARLES N.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00334-10	614,556
IGLEWSKI, WALLACE J.....	SELECTIVE INTOXICATION OF VIRUS TRANSFORMED CELLS.....	5R01 CA17271-02	47,981
JOHNSON, LARRY R.....	AIRWAY TURBULENCE AND PULMONARY OXYGEN EXCHANGE.....	1R23 HL20576-01	37,588
JONES, RICHARD T.....	HEMOGLOBIN: STRUCTURE, FUNCTION AND GENETIC CONTROL.....	5R01 AM17850-02	72,084

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OREGON—Continued</b>			
JONES, RICHARD T.	HEMOGLOBIN: STRUCTURE, FUNCTION AND GENETIC CONTROL	5R01 AM17850-03	70,593
KABAT, DAVID	CONTROL OF GENE EXPRESSION IN DIFFERENTIATING CELLS	5R01 HL14960-08	61,308
KENDALL, JOHN W.	NEURAL CONTROL OF ACTH RELEASE	5R01 AM08547-10	47,703
KENNAWAY, NANCY G.	UREA CYCLE. STUDY OF NORMAL AND MUTANT GENE PRODUCTS	1R01 AM17906-01A1	44,470
KOLER, ROBERT D.	GENETIC ALTERATIONS IN HUMAN RED CELLS	5R01 AM18006-02	37,081
KOLER, ROBERT D.	GENETIC ALTERATIONS IN HUMAN RED CELLS	5R01 AM18006-03	37,702
KOLER, ROBERT D.	POSTSYNTHETIC MODIFICATIONS OF HEMOGLOBIN IN DIABETICS	1R01 HL20393-01	32,895
KRIPPAEPHE, WILLIAM W.	EFFECT OF FUNCTION ON GRAFTS AND IMPLANTS OF COLLAGEN	2R01 HL14126-15	67,400
LESLIE, GERRIE A.	MODULATION OF IMMUNITY TO GROUP A STREPTOCOCCI	5R01 AI12273-03	33,282
LEUNG, BENJAMIN S.	PROLACTIN-ESTROGEN INTERACTION IN BREAST CARCINOMA	5R01 CA16130-02	32,841
LINMAN, JAMES W.	WESTERN CANCER STUDY GROUP	3R10 CA10186-09S1	76,240
LITT, MICHAEL	CONTROL OF TRANSFER RNA LEVELS IN MAMMALIAN CELLS	5R01 CA16557-02	42,183
LOVRIEN, EVERETT W.	GENETIC LINKAGE ANALYSIS IN SELECTED FAMILIES	5R01 HD08237-03	70,971
MAGENIS, R ELLEN	HUMAN CHROMOSOME MAPPING AND BEHAVIOR	5R01 HD07997-03	62,504
MAHLER, DAVID B.	CLINICAL BEHAVIOR OF DENTAL RESTORATIVE MATERIALS	2R01 DE02320-11	53,769
MAHLER, DAVID B.	MARGINAL FRACTURE OF DENTAL AMALGAM	5R01 DE02936-08	35,712
MASON, HOWARD S.	MECHANISMS OF OXYGEN METABOLISM	5R01 AM07180-14	105,501
METCALFE, JAMES.	EXERCISE HEMODYNAMICS AND RESPIRATION IN PREGNANCY	2R01 HD08025-03	48,769
METCALFE, JAMES.	RESPIRATION DURING DEVELOPMENT	1P01 HD10034-01	456,370
METCALFE, JAMES.	BLOOD OXYGEN AFFINITY AND MYOCARDIAL OXYGEN SUPPLY	1R01 HL18275-02	47,625
MEYER, ERNEST A.	COMPARATIVE CHARACTERISTICS OF GIARDIA TROPHOZOITES	1R01 AI13300-01	19,740
MORSE, STEPHEN A.	INTERACTION OF STEROIDS WITH NEISSERIA GONORRHOEA	1R01 AI12928-01	53,915
MORSE, STEPHEN A.	PHYSIOLOGY AND METABOLISM OF NEISSERIA GONORRHOEA	1R01 AI13571-01	64,848
PARKER, RICHARD B.	INTERACTIONS OF THE ORAL MICROBIOTA	5R01 DE01784-14	31,554
PIROFSKY, BERNARD	SELECTIVE ERYTHROCYTE REPOPULATION	5R01 AM16124-03	43,996
RAHIMTOOLA, SHAHBUDIN H.	CARDIOVASCULAR PROGRAM PROJECT	3P01 HL06336-15S1	86,633
RAHIMTOOLA, SHAHBUDIN H.	CARDIOVASCULAR PROGRAM PROJECT	5P01 HL06336-16	683,470
RITTENBERG, MARVIN B.	TOXIN CANCER CHEMOTHERAPY IN IMMUNOPROTECTED ANIMALS	5R01 CA17228-02	85,935
ROSCH, JOSEF	RETROGRADE PANCREATIC VENOGRAPHY—ANIMAL AUTOPSY STUDIES	1R26 CA19221-01	44,005
SAVARA, BHIM S.	SIGNIFICANCE OF VARIATION DURING CHILD GROWTH	5R01 HD00157-15	74,248
SAVARA, BHIM S.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05336-15	27,917
SEAMAN, GEOFFREY V.	AGING ERYTHROCYTES: BIORECOGNITION AND ELIMINATION	5R01 HL18284-02	65,486
SHEARER, THOMAS R.	METABOLIC EFFECTS OF SELENIUM ON DENTAL CARIES	5R01 DE03536-04	19,940
SHEARER, THOMAS R.	FLUORIDE-SELENIUM INTERACTION IN DENTAL CARIES	5R01 DE03856-03	20,018
SIEGEL, BENJAMIN V.	AUTOIMMUNITY AND NEOPLASIA IN NEW ZEALAND BLACK MICE	1R01 CA18149-01	45,562
SMITH, CATHERINE A.	STRUCTURE AND FUNCTION OF THE INNER EAR	5R01 NS08813-07	93,023
SMITH, CATHERINE A.	STRUCTURE AND FUNCTION OF THE INNER EAR	5R01 NS08813-08	98,766
STARR, ALBERT	LATE RESULTS OF VALVE REPLACEMENT: COMPUTER ANALYSIS	5R01 HL16461-03	129,002
STONE, ROBERT S.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05412-15	210,661
VAN BRUGGEN, JOHN T.	ROLE OF SOLUTE DRAG IN BIOLOGICAL TRANSPORT	5R01 AM18038-02	31,208
VERNON, JACK A.	INVESTIGATION OF AGENTS WHICH DAMAGE THE EAR	3P01 NS09889-04S2	33,504
VERNON, JACK A.	INVESTIGATION OF AGENTS WHICH DAMAGE THE EAR	2P01 NS09889-05A1	201,745
WALLOCH, RICHARD A.	BEHAVIORAL EVALUATION OF COCHLEAR IMPLANTS	1R01 NS12864-01	48,433
WEIMAR, VIRGINIA L.	REACTION OF CORNEAL CELLS TO INJURY	5R01 EY00238-15	93,431
WEIMAR, VIRGINIA L.	REACTION OF CORNEAL CELLS TO INJURY	5R01 EY00238-16	84,953
WEITLAUF, HARRY M.	METABOLIC CHANGES IN PREIMPLANTATION MOUSE EGGS	5R01 HD08496-03	31,740
WUEPPER, KIRK D.	EPIDERMAL TRANSLUTAMINASE: ROLE IN KERATINIZATION	5R01 AM17687-02	38,101
WUEPPER, KIRK D.	PURIFICATION AND FUNCTION OF HUMAN HMW KININOGEN	1R01 HL18618-01	42,172
WUEPPER, KIRK D.	PURIFICATION AND FUNCTION OF HUMAN HMW KININOGEN	5R01 HL18618-02	37,230
ORGANIZATION TOTAL	80	6,407,255	
<b>PROVIDENCE MEDICAL CENTER ZIP CODE 97213</b>			
SEAMAN, GEOFFREY V.	EVALUATION OF DIAGNOSTIC CLINICAL HEMORRHOLOGY	1R01 HL19255-01	68,200
ORGANIZATION TOTAL	1	68,200	
<b>REED COLLEGE ZIP CODE 97202</b>			
ARCH, STEPHEN W.	REGULATORY PHYSIOLOGY AND BIOCHEMISTRY IN NERVE CELLS	5R01 NS11149-03	21,297
BLOCH, WILL	USE OF HYBRID ENZYMES TO STUDY SUBUNIT INTERACTION	5R01 GM22077-02	24,354
GWILLIAM, GILBERT F.	NEURAL ACTIVITY AND BEHAVIOR	5R01 NS08610-06	21,194
KLEINHOLZ, LEWIS H.	NEUROSECRETION AND ENDOCRINE PHYSIOLOGY	5R01 NS02606-17	57,603



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>OREGON—Continued</b>			
RUBEN, LAURENS N.....	THE EVOLUTION AND DEVELOPMENT OF IMMUNE RESPONSES.....	5R01 AI12846-02	55,061
RUSSELL, PETER J.....	A RIBOSOME BIOSYNTHESIS MUTANT OF NEUROSPORA.....	1R01 GM22488-01A1	29,357
ORGANIZATION TOTAL	6 208,866		
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 97207</b>			
MASS, ROBERT E.....	WESTERN CANCER STUDY GROUP.....	3R10 CA14438-03S1	16,246
ORGANIZATION TOTAL	1 16,246		
STATE TOTAL	193 16,743,715		
<b>PENNSYLVANIA</b>			
<b>BETHLEHEM</b>			
<b>LEHIGH UNIVERSITY ZIP CODE 18015</b>			
CHENG, THOMAS C.....	DEFENSE MECHANISMS IN MOLLUSCS IN RELATION TO BIOCONTROL.....	5R01 AI12355-02	40,758
KRAWIEC, STEVEN S.....	CORRELATION OF THERMAL ENVIRONMENT AND RNA STRUCTURE.....	5R01 GM19856-03	13,014
O'CONNOR, JOHN J.....	RETRIEVAL OF ANSWER-PASSAGES FROM BIOMEDICAL PAPERS.....	1R01 LM02603-01A1	64,231
SCHAFER, STEPHEN W.....	TAURINE METABOLISM IN MAMMALIAN HEART.....	1R01 HL18554-01	30,180
SCHRAY, KEITH J.....	ANOMERIC SPECIFICITY AND 1- EPIMERASE ACTIVITIES.....	1R01 GM22378-01	30,740
YOUNG, THOMAS E.....	ELECTROCHEMICAL STUDIES OF MELANIN PRECURSORS.....	1R01 NS12608-01	33,856
ORGANIZATION TOTAL	6 212,779		
<b>BRYN MAWR</b>			
<b>BRYN MAWR COLLEGE ZIP CODE 19010</b>			
KANEY, ANTHONY R.....	GENETIC ANALYSIS OF CYANOPHYTES.....	5R01 GM17715-05	16,760
OLDS, PATRICIA J.....	STUDIES OF MAMMALIAN FERTILIZATION.....	5R01 HD09156-02	19,629
POWERS, ALICE S.....	VISUAL SYSTEM STRUCTURE AND FUNCTION.....	1R01 EV01657-01	20,476
WANNEMACHER, JILL T.....	PROCESSING STRATEGIES IN PICTURE-SENTENCE MATCHING.....	5R01 HD08628-02	17,629
ORGANIZATION TOTAL	4 74,494		
<b>DARBY</b>			
<b>MERCY CATHOLIC MEDICAL CENTER ZIP CODE 19023</b>			
DIERASSI, ISAAC.....	LEUKEMIA CENTER (PLATELET) PROGRAM.....	5R01 CA11630-06	311,467
DIERASSI, ISAAC.....	LEUKEMIA CENTER (PLATELET) PROGRAM.....	5R01 CA11630-07	240,797
MEYER, EDWARD C.....	THE ABSORPTION ROUTES OF PROTEIN FROM ALVEOLI.....	5R01 HL13596-06	71,580
MEYER, EDWARD C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05708-05	35,505
ORGANIZATION TOTAL	4 659,349		
<b>GLENSIDE</b>			
<b>BEAVER COLLEGE ZIP CODE 19038</b>			
CARR, WILLIAM J.....	ROLE OF PHEROMONES IN RODENT COMMUNICATION.....	5R01 HD07043-03	33,636
ORGANIZATION TOTAL	1 33,636		
<b>HAVERFORD</b>			
<b>HAVERFORD COLLEGE ZIP CODE 19041</b>			
FINGER, IRVING.....	SURFACE PROTEIN TRANSFORMATION.....	5R01 GM21016-03	37,580
GOFF, CHRISTOPHER G.....	MECHANISMS REGULATING GENE EXPRESSION IN YEAST.....	1R01 GM22756-01	38,782
KEYSLER, DIETRICH.....	ACTOMYOSIN AND CONTROL OF CELL MOVEMENTS IN MITOSIS.....	1R01 GM22924-01	38,019
ORGANIZATION TOTAL	3 114,381		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
<b>HERSHEY</b>			
<b>PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER ZIP CODE 17033</b>			
BAIRD, IRWIN L.	ANATOMICAL STUDIES OF THE INTERNAL EAR.....	5R01 NS07860-09	43,173
BAIRD, IRWIN L.	ANATOMICAL STUDIES OF THE INTERNAL EAR.....	5R01 NS07860-10	50,151
BARDIN, C WAYNE	ANDROGENS IN REPRODUCTION: PRODUCTION AND ACTIONS.....	5R01 HD05276-06	95,526
BHAVANANDAN, VEERASINGHAM.....	COMPLEX SACCCHARIDES OF NORMAL AND CANCER CELL NUCLEI.....	1R01 CA17686-01A1	53,868
BULLOCK, LESLIE P.	MECHANISM OF HORMONE ACTION IN ERYTHROPOIETIC CELL.....	1R01 AM19056-01	33,997
CARPENTER, MALCOLM B.	VESTIBULAR SYSTEM.....	7R01 NS13747-01	47,809
CARPENTER, MALCOLM B.	ANATOMY OF BASAL GANGLIA AND RELATED NUCLEI.....	7R01 NS13750-01	56,448
COMBS, JOHN W.	CELL POPULATION KINETICS OF TUMOR REGRESSION.....	5R01 CA17341-02	46,142
COMBS, JOHN W.	CELL POPULATION KINETICS OF TUMORS AND HOST TISSUES.....	1R01 CA20002-01	35,582
DAVIDSON, EUGENE A.	BIOCHEMISTRY OF MUCOPOLYSACCHARIDES.....	5R01 CA15483-09	149,548
DEMERS, LAURENCE M.	NUTRITION AND HORMONAL INFLUENCES ON LUNG MATURATION.....	2R01 HD06201-05	41,893
GLASER, M RONALD	INTERACTION OF DNA TUMOR VIRUSES AND CELL GENOMES.....	5R01 CA15038-03	52,158
HAMMOND, JAMES M.	PROLACTIN AND PROLACTIN RECEPTORS IN OVARIAN FUNCTION.....	1R01 HD10122-01	58,876
HARRISON, TIMOTHY S.	CARDIOVASCULAR DETERMINANTS OF CATECHOLAMINE RELEASE.....	7R01 HL18995-01	38,965
HARRISON, TIMOTHY S.	CARDIOVASCULAR DETERMINANTS OF CATECHOLAMINE RELEASE.....	5R01 HL18995-02	40,623
HASS, LOUIS F.	STUDIES ON THE CONTROL OF SICKLE CELL CRISIS.....	5R01 HL16647-03	105,546
HERNANDEZ, MILTON J.	CEREBRAL BLOOD FLOW AND METABOLISM IN ATHEROSCLEROSIS.....	5R01 NS11958-02	55,097
HILL, CHARLES W.	GENETICS AND BIOCHEMISTRY OF MISSENSE SUPPRESSION.....	2R01 GM16329-08	88,232
HILL, CHARLES W.	GENETICS AND BIOCHEMISTRY OF MISSENSE SUPPRESSION.....	5R01 GM16329-09	98,596
HYMAN, RICHARD W.	MALIGNANCY AND DNA HOMOLGY AMONG THE HERPES VIRUSES.....	5R01 CA16498-02	49,346
JACOB, SAMSON T.	MITOCHONDRIAL POLYADENYLATE POLYMERASE IN NEOPLASIA.....	5R01 CA15733-03	55,785
JACOB, SAMSON T.	MITOCHONDRIAL RNA POLYMERASE OF RAT LIVER AND TUMORS.....	5R01 CA16438-04	41,638
JEFFERSON, LEONARD S, JR.	REGULATION OF LIVER GROWTH AND FUNCTION.....	5R01 AM13499-08	55,230
JEFFERSON, LEONARD S, JR.	REGULATIONS OF SKELETAL MUSCLE METABOLISM.....	5R01 AM15658-05	52,306
JEFFERSON, LEONARD S, JR.	REGULATIONS OF SKELETAL MUSCLE METABOLISM.....	5R01 AM15658-06	53,729
KREIDER, JOHN W.	CELL DIFFERENTIATION AND NEOPLASIA.....	2R01 CA11097-07	79,436
LADDA, ROGER L.	GROWTH FACTORS: CONTROL OF ANIMAL CELL PROLIFERATION.....	5R01 AG00421-02	65,486
LANG, C MAX	LABORATORY ANIMAL DIAGNOSTIC RESOURCE.....	5P40 RR00469-08	103,634
LANOUÉ, KATHRYN F.	CONTROL OF ANION TRANSPORT IN MITOCHONDRIA.....	5R01 GM22158-02	49,308
LEAMAN, DAVID M.	NARCOTICS AND THE CIRCULATION.....	2R01 HL17954-02	34,193
LEURE-DU PREE, ALPHONSE E.	RETINAL ZINC: CELLULAR LOCATION AND VISUAL FUNCTION.....	5R01 EY01438-02	29,966
LIPTON, ALLAN	CONTROL OF GROWTH OF MALIGNANT CELLS BY SERUM FACTORS.....	5R01 CA15858-03	82,925
LIU, DAI K.	MODE OF ACTION OF ALDOSTERONE IN KIDNEY AND HEART.....	5R01 AM17644-02	50,039
LIU, DAI K.	CHEMICAL CARCINOGEN AND NUCLEAR RNASES OF RAT LIVER.....	1R01 CA18200-01	56,690
LLOYD, THOMAS A.	TYROSINE HYDROXYLASE: MECHANISM OF ACTIVATION.....	1R01 GM23134-01	68,730
MC CALLISTER, LAWRENCE P.	ULTRASTRUCTURAL CORRELATES OF MYOCARDIAL ISCHEMIA.....	1R01 HL18631-01	34,957
MC PHERSON, ALEXANDER	X-RAY CRYSTALLOGRAPHIC ANALYSES OF PROTEIN STRUCTURE.....	5R01 GM21398-02	47,695
MORGAN, HOWARD E.	MECHANISM OF CARDIAC HYPERTROPHY.....	5R01 HL11534-09	72,102
MORGAN, HOWARD E.	MECHANISM OF CARDIAC HYPERTROPHY.....	5R01 HL11534-10	78,080
MORGAN, HOWARD E.	METABOLIC REGULATION OF SUGAR TRANSPORT.....	5R01 HL13029-07	47,971
MORGAN, HOWARD E.	REGULATION OF PROTEIN DEGRADATION IN HEART.....	5R01 HL18258-02	70,008
MORGAN, HOWARD E.	REGULATION OF PROTEIN TURNOVER IN DIABETIC HEART.....	1R01 HL20388-01	76,951
MORTEL, RODRIGUE	GYNECOLOGIC ONCOLOGY GROUP.....	1R10 CA16386-01A1	35,452
MORTIMORE, GLENN E.	REGULATION OF PROTEIN TURNOVER IN LIVER.....	5R01 AM16356-04	78,231
MORTIMORE, GLENN E.	REGULATION OF PROTEIN TURNOVER IN LIVER.....	5R01 AM16356-05	80,516
MUNGER, BRYCE L.	HISTOPHYSIOLOGY AND PATHOGENESIS OF DIABETES MELLITUS.....	5R01 AM11407-10	87,791
NEELY, JAMES R.	REGULATION OF MYOCARDIAL FATTY ACID METABOLISM.....	5R01 HL13028-07	57,230
NEELY, JAMES R.	REGULATION OF METABOLISM IN OXYGEN DEFICIENT HEARTS.....	5R01 HL18206-02	71,162
NEELY, JAMES R.	EFFECTS OF DIABETES ON CARDIAC FUNCTION AND METABOLISM.....	1R01 HL20484-01	44,948
PATTERSON, JOHN I.	BIOMEDICAL COMPUTING RESOURCE.....	5P41 RR00576-05	82,237
PEGG, ANTHONY E.	PERSISTENCE OF ALKYLATED DNA IN CARCINOGENESIS.....	1R01 CA18137-01	55,836
PEGG, ANTHONY E.	MAMMALIAN POLYAMINE METABOLISM.....	1R01 CA18138-01	58,493
PIERCE, WILLIAM S.	LEFT VENTRICULAR BYPASS FOR MYOCARDIAL INFARCTION.....	5R01 HL13426-06	59,799
PIERCE, WILLIAM S.	LEFT VENTRICULAR BYPASS FOR MYOCARDIAL INFARCTION.....	5R01 HL13426-07	67,345
PRYSTOWSKY, HARRY	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05680-08	181,422
PURNELL, DALLAS M.	PRECURSORS OF HYPERPLASTIC NODULES OF MAMMARY GLAND.....	1R01 CA18654-01	43,094

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
RAPP, FRED.....	THE CHARACTERIZATION OF MEASLES VIRUS LATENCY .....	5R01 AI12203-03	55,549
RAPP, FRED.....	ETIOLOGY OF PROSTATE TUMORS.....	5R26 CA16365-03	94,433
RAPP, FRED.....	SUPPORT FOR SPECIALIZED CANCER RESEARCH CENTER.....	1P30 CA18450-01	176,272
ROARK, DENNIS E.....	BIOPHYSICAL STUDIES OF NUCLEOHISTONES.....	5R01 GM18456-05	44,290
ROSE, RICHARD C.....	INTESTINAL TRANSPORT OF WATER-SOLUBLE VITAMINS.....	1R01 AM19119-01	54,165
ROSENBERG, ABRAHAM G.....	COMPLEX GLYCOLIPIDS OF BRAIN AND RELATED SYSTEMS.....	5R01 NS08258-08	140,647
SEVERS, WALTER B.....	ANGIOTENSIN NEUROPHARMACOLOGY: RELATIONSHIP TO SODIUM.....	1R01 HL19320-01	62,918
SHIMAN, ROSS.....	REGULATION OF TYROSINE SYNTHESIS IN HEPATOMA CELLS.....	2R01 CA14881-04	78,672
SMITH, STEVEN J.....	EFFECTS OF CARCINOGENS ON PROCESSING OF RIBOSOMAL RNA.....	5R01 CA16804-02	47,290
SMITH, STEVEN J.....	EFFECTS OF CARCINOGENS ON PROCESSING OF RIBOSOMAL RNA.....	5R01 CA16804-03	48,079
TAYLOR, JOHN M.....	CONTROL OF ALBUMIN SYNTHESIS IN LIVER AND HEPATOMAS.....	5R01 CA16746-02	49,007
TAYLOR, JOHN M.....	CONTROL OF ALBUMIN SYNTHESIS IN LIVER AND HEPATOMAS.....	5R01 CA16746-03	47,174
TYERS, G FRANK.....	ELIMINATION OF REOPERATIVE CARDIAC PACEMAKER SURGERY.....	2R01 HL13988-05	81,948
TYERS, G FRANK.....	ELIMINATION OF REOPERATIVE CARDIAC PACEMAKER SURGERY.....	5R01 HL13988-06	86,789
VAN BUSKIRK, E MICHAEL.....	THE VERTEBRATE EYE: STUDIES OF AQUEOUS OUTFLOW.....	5R01 EY01563-02	49,951
VANNUCCI, ROBERT C.....	OXIDATIVE METABOLISM IN BRAINS OF PERINATAL ANIMALS.....	5R01 HD09109-02	39,217
VESELL, ELLIOT S.....	DRUG METABOLISM IN HUMAN LIVER TUMORS.....	5R01 CA16536-02	47,342
WEISZ, JUDITH.....	STEROID METABOLITES AND LIMBIC SYSTEM FUNCTION.....	5R01 HD09542-04	83,032
WEISZ, JUDITH.....	CATECHOL-ESTROGENS, CNS AND REPRODUCTION.....	1R01 HD09734-01	72,624
WEISZ, JUDITH.....	CATECHOL-ESTROGENS, CNS AND REPRODUCTION.....	5R01 HD09734-02	80,136
ZEIJS, ROBERT F.....	PERIPHERAL CIRCULATION IN HEART FAILURE.....	5R01 HL17853-02	29,098
ORGANIZATION TOTAL	77	5,020,624	
<b>HONEY BROOK</b>			
FEDERATED MEDICAL RESOURCES	ZIP CODE 19344		
WAMPLER, STANLEY N.....	ANIMAL RESOURCE CENTER PROGRAM.....	5P40 RR00843-03	32,533
ORGANIZATION TOTAL	1	32,533	
<b>LANCASTER</b>			
FRANKLIN AND MARSHALL COLLEGE	ZIP CODE 17604		
KING, DAVID B.....	THYROIDAL INFLUENCE ON SKELETAL MUSCLE GROWTH.....	5R01 AM10948-07	44,529
ORGANIZATION TOTAL	1	44,529	
LANCASTER CLEFT PALATE CLINIC	ZIP CODE 17602		
COOPER, HERBERT K, SR.....	STUDY OF ORAL-FACIAL-COMMUNICATIVE DISORDERS.....	5P01 DE02172-12	328,423
OKA, SEISHI W.....	A GENETIC STUDY OF HUMAN OROFACIAL CLEFTS.....	1R23 DE04537-01	10,765
ORGANIZATION TOTAL	2	339,188	
ST. JOSEPH HOSPITAL	ZIP CODE 17604		
COLEMAN, MARY P.....	INVESTIGATIONS OF VITAMIN B6 IN DOWN'S SYNDROME.....	5R01 NS10720-03	42,476
COLEMAN, MARY P.....	INVESTIGATIONS OF VITAMIN B6 IN DOWN'S SYNDROME.....	2R01 NS10720-04	38,393
EISENBERG, RITA B.....	INFANT PERCEPTION OF SPEECH AND NONSPEECH SOUNDS.....	5R01 HD00732-11	89,706
SUNDARESAN, P RAMNATHAN.....	METABOLISM OF RETINOL AND RETINOIC ACID.....	5R01 AM13557-06	48,960
ORGANIZATION TOTAL	4	219,535	
<b>LEWISBURG</b>			
BUCKNELL UNIVERSITY	ZIP CODE 17837		
HEINE, HAROLD W.....	THE REACTIONS AND SYNTHESIS OF DIAZIRIDINES.....	5R01 CA15880-03	19,849
WINSTEAD, MELDRUM B.....	SYNTHESIS AND SCINTIGRAPHIC STUDY OF 11C COMPOUNDS.....	5R01 GM20073-03	15,514
ORGANIZATION TOTAL	2	35,363	
<b>LINCOLN UNIVERSITY</b>			
LINCOLN UNIVERSITY	ZIP CODE 19352		
JOHNSON, WILLIAM T.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08002-05	113,389
ORGANIZATION TOTAL	1	113,389	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
<b>PHILADELPHIA</b>			
<b>ALBERT EINSTEIN MEDICAL CENTER      ZIP CODE 19141</b>			
FREEMAN-NARROD, MARION .....	TOXICITY OF METHOTREXATE AND ITS POSSIBLE PREVENTION .....	5R01 CA18814-02	37,551
GOLDNER, HERMAN .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05505-14	18,827
TABACHNICK, JOSEPH .....	SUPPRESSION OF FIBROSIS IN CHRONIC RADIODERMATITIS .....	5R01 AM15669-05	76,492
TABACHNICK, JOSEPH .....	SUPPRESSION OF FIBROSIS IN CHRONIC RADIODERMATITIS .....	5R01 AM15669-06	81,583
ORGANIZATION TOTAL	4      214,453		
<b>CHILDREN'S HOSPITAL OF PHILADELPHIA      ZIP CODE 19104</b>			
ASAKURA, TOSHIO .....	MECHANISM OF OXYGEN SUPPLY TO TISSUE .....	5R01 HL18226-02	41,081
BAKER, LESTER .....	HYPOGLYCEMIA IN SGA NEWBORNS .....	5R01 AM13518-14	70,084
BONGIOVANNI, ALFRED M. ....	HORMONAL FUNCTION IN GROWTH AND DEVELOPMENT IN CHILDHOOD .....	5R01 HD00371-22	70,199
BONGIOVANNI, ALFRED M. ....	HORMONAL FUNCTION IN GROWTH AND DEVELOPMENT IN CHILDHOOD .....	2R01 HD00371-23	90,404
CORTNER, JEAN A .....	GENETIC HETEROGENEITY OF ACID LIPASE-ATHEROSCLEROSIS .....	1R01 HL18723-01	93,904
CORTNER, JEAN A .....	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN .....	5M01 RR00240-12	422,729
D'ANGIO, GIULIO J .....	PEDIATRIC CANCER RESEARCH CENTER .....	2P01 CA14489-04	630,436
DONALDSON, MILTON H .....	CLINICAL CANCER .....	1R25 CA19372-01	127,443
EVANS, AUDREY E .....	CHILDREN'S CANCER STUDY GROUP A .....	5R10 CA11796-07	172,793
EVANS, AUDREY E .....	THE BIOLOGY OF HUMAN NEUROBLASTOMA .....	2R01 CA13451-04	79,061
EVANS, AUDREY E .....	PEDIATRIC CANCER RESEARCH CENTER .....	5P01 CA14489-03	346,239
EVANS, AUDREY E .....	MODERN CONCEPTS IN BRAIN TUMOR THERAPY .....	1R13 CA19291-01	64,882
GLICK, MARY C .....	GLYCOPROTEIN METABOLISM IN CYSTIC FIBROSIS .....	5R01 AM16859-03	66,598
GLICK, MARY C .....	MEMBRANE STRUCTURE RELATED TO ONCOGENESIS & CELL DIV. ....	5R01 CA14037-03	48,893
HARRIS, T N .....	AGING AND IMMUNE RESPONSES TO TRANSPLANTS AND TUMORS .....	5R01 AG00453-02	27,640
HARRIS, T N .....	EFFECTS OF ANTITUMOR ANTIBODIES ON TUMOR TRANSPLANTS .....	5R01 CA14487-04	61,449
HARRIS, T N .....	IMMUNE INJURY OF TUMOR CELLS: MECHANISM, APPLICATIONS .....	5R01 CA17181-02	40,436
HENLE, WERNER .....	RELATION OF EPSTEIN-BARR VIRUS TO HUMAN MALIGNANCIES .....	2R01 CA04568-18	149,035
HUMMELER, KLAUS .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05506-14	160,389
KATZ, SOLOMON H .....	ENVIRONMENTAL LEAD AND NEUROPSYCHOLOGICAL DEVELOPMENT .....	1R01 ES01335-01	55,347
KATZ, SOLOMON H .....	ANTECEDENTS OF ADOLESCENT HYPERTENSION .....	1R01 HL19869-01	209,419
KOLDOVSKY, OTAKAR .....	METABOLISM OF THE DEVELOPING SMALL INTESTINE .....	5R01 AM14531-06	78,571
PLOTKIN, STANLEY A .....	HUMAN CYTOMEGALOVIRUS-HOST CELL INTERACTIONS .....	5R01 AI2151-02	74,361
RASHKIND, WILLIAM J .....	NONSURGICAL TREATMENT OF CONGENITAL HEART DISEASE .....	2R01 HL12307-06	87,580
SCHWARTZ, ELIAS .....	HEME AND GLOBIN SYNTHESIS IN INFANTS AND CHILDREN .....	5R01 AM16691-05	78,198
SEGAL, STANTON .....	GENETIC METABOLIC DISEASES OF INFANCY AND CHILDHOOD .....	5R01 AM10894-10	161,383
SEGAL, STANTON .....	GENETIC METABOLIC DISEASES OF INFANCY AND CHILDHOOD .....	5R01 AM10894-11	182,439
SEGAL, STANTON .....	METABOLIC BASIS OF CYSTINE STORAGE DISEASE .....	5R01 AM13900-07	53,853
SEGAL, STANTON .....	CELLULAR MECHANISMS IN MENTAL RETARDATION .....	5P01 HD08536-02	541,013
SOUTH, MARY A .....	SECRETORY COMPONENT IN NEOPLASIA .....	1R01 CA18578-01A1	49,778
YAFFE, SUMNER J .....	DRUG DISPOSITION IN SICK INFANTS AND CHILDREN .....	7R01 HD10053-01	113,531
YAFFE, SUMNER J .....	DRUG DISPOSITION IN SICK INFANTS AND CHILDREN .....	5R01 HD10053-02	121,104
YAFFE, SUMNER J .....	REGULATION OF DRUG METABOLISM DURING DEVELOPMENT .....	7R01 HD10063-01	58,389
YAFFE, SUMNER J .....	REGULATION OF DRUG METABOLISM DURING DEVELOPMENT .....	5R01 HD10063-02	64,337
ORGANIZATION TOTAL	34      4,692,998		
<b>DREXEL UNIVERSITY      ZIP CODE 19104</b>			
BEARD, RICHARD B .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR07129-07	40,745
DAVIS, FRANKLIN A .....	SULFUR-NITROGEN COMPOUNDS IN CANCER CHEMOTHERAPY .....	5R01 CA14341-02	56,073
DI MEO, FRANK N .....	CARDIAC DEFIBRILLATION BY MULTIPLE STAGGERED SHOCKS .....	5R01 HL14627-04	48,898
FINEGOLD, LEONARD X .....	BIOPOLYMERS: THERMODYNAMICS STUDIES .....	1R01 GM22888-01	46,168
GRIFFITH, BELVER C .....	INFORMATION AND KNOWLEDGE IN BIOMEDICAL RESEARCH .....	5R01 LM00911-05	55,425
MODE, CHARLES J .....	COMPUTER MACROSIMULATION IN FAMILY PLANNING EVALUATION .....	1R01 HD09571-01	55,783
MODE, CHARLES J .....	COMPUTER MACROSIMULATION IN FAMILY PLANNING EVALUATION .....	5R01 HD09571-02	60,944
NATH, AMAR .....	MOSSBAUER STUDIES OF VITAMIN B12 AND ITS COENZYME .....	5R01 AM16447-03	67,401
NES, WILLIAM R .....	INFLUENCE OF STRUCTURE ON ISOPENTENOID METABOLISM .....	5R01 AM12172-09	107,426
ORGANIZATION TOTAL	9      538,863		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
<b>HAHNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA ZIP CODE 19102</b>			
ALTEVEER, ROBERT J.	METABOLISM OF SPLANCHNIC TISSUES DURING ENDOTOXIC SHOCK	1R01 GM22849-01	75,373
BRADY, LUTHER W.	RADIATION THERAPY ONCOLOGY GROUP	2R10 CA12252-05	110,792
BRADY, LUTHER W.	GYNCOLOGIC ONCOLOGY GROUP	2R10 CA12478-06	65,012
BRADY, LUTHER W.	RADIATION THERAPY CLINICAL AND RESEARCH CENTER	5P01 CA14043-02	71,155
BRODSKY, ISADORE	EASTERN COOPERATIVE ONCOLOGY GROUP	5R10 CA13611-04	101,969
BRODSKY, ISADORE	PROGRAM PROJECT—MEDICAL ONCOLOGY	5P01 CA17053-02	262,884
CROWELL, RICHARD L.	VIRAL INTERFERENCE IN CARRIER CULTURES	5R01 AI03771-16	78,673
DI PALMA, JOSEPH R.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05413-15	82,339
FLEISCHMAUER, RAUL	ALTERATIONS OF BLOOD VESSEL AND COLLAGEN IN SCLERODERMA	5R01 AM17918-02	88,597
FLEISCHMAUER, RAUL	ALTERATIONS OF BLOOD VESSEL AND COLLAGEN IN SCLERODERMA	5R01 AM17918-03	89,289
KAHN, SIGMUND B.	CANCER CENTER PROGRAM IN CLINICAL EDUCATION	5R25 CA17963-02	129,922
KALJA, MADHU	PULMONARY REFLEXES—CENTRAL PATHWAYS	5R01 HL17800-02	19,584
PRICE, HENRY L.	AUTONOMIC AND CIRCULATORY ACTIONS OF ANESTHETICS	2R01 HL15392-04	43,120
PRICE, HENRY L.	EFFECT OF ANESTHETICS ON MYOCARDIAL FUNCTION	5R01 HL15799-02	59,262
ROBINSON, STEPHEN E.	DEVELOPMENTAL FETAL ECG	5R01 HD09461-02	75,245
ROSE, LESLIE I.	METABOLIC STUDIES OF UTERINE NEOPLASMS	5R01 CA18737-02	62,601
SHOBER, WHARTON	EXPLORATORY STUDIES IN CANCER RESEARCH	1P20 CA18225-01	71,764
WEIDANZ, WILLIAM P.	MECHANISMS OF 'NONSTERILIZING IMMUNITY' IN MALARIA	5R01 AI12710-02	39,478
ORGANIZATION TOTAL	18	1,527,059	
<b>INSTITUTE FOR CANCER RESEARCH ZIP CODE 19111</b>			
BAYER, MANFRED E.	MULTIFUNCTIONAL ZONES ON THE BACTERIAL SURFACE	5R01 AI10414-03	69,895
BERMAN, HELEN	STRUCTURES OF NUCLEIC ACID AND PROTEIN COMPONENTS	5R01 GM21589-02	41,698
BOSMA, MELVIN J.	REGULATION OF IMMUNOGLOBULIN PRODUCTION	1R01 AI13323-01	98,248
BOSMA, MELVIN J.	INHERITANCE AND EXPRESSION OF IMMUNOGLOBULIN GENES	5R01 CA04946-16	44,726
BROWN, DARRELL Q.	DOSE-RATE DEPENDENCE OF TUMOR CURE IN RADIO THERAPY	5R01 CA15139-02	23,550
BROWN, DARRELL Q.	LUCANTHONE AS AN ADJUVANT IN RADIO THERAPY	1R01 CA20614-01	40,160
COHEN, LEONARD H.	HISTONE SPECIFICITY	5R01 CA12544-05	46,299
COHEN, LEONARD H.	HISTONE SPECIFICITY	5R01 CA12544-06	47,806
CREECH, HUGH J.	SUPPORT FOR THE JOURNAL OF CANCER RESEARCH	5R01 CA09247-24	167,370
ENGSTROM, PAUL F.	SUPPORT FOR A CANCER CONTROL OUTREACH PROGRAM	1R18 CA18993-01	555,057
ENGSTROM, PAUL F.	CLINICAL CANCER EDUCATION PROGRAM	1R25 CA19513-01	73,872
FREED, JEROME J.	GENETIC STUDIES ON HAPLOID CELLS IN CULTURE	5R01 CA05959-15	80,538
FREED, JEROME J.	GENETIC STUDIES ON HAPLOID CELLS IN CULTURE	5R01 CA05959-16	86,518
GLUSKER, JENNY P.	APPLICATION OF CRYSTALLOGRAPHIC TECHNIQUES	2R01 CA10925-27	186,461
GUPTA, RAJ K.	SPECTRAL STUDIES OF HEME- AND METAL PROTEINS	1R01 AM19454-01	33,604
HAMPTON, ALEXANDER	CHEMISTRY AND ENZYMOLOGY OF ANTICANCER PURINE ANALOGS	5R01 CA11196-08	113,378
HUNGERFORD, DAVID A.	CHROMOSOME STRUCTURE AND FUNCTION IN MAN	5R01 GM17551-15	55,470
KLINMAN, JUDITH P.	ENZYME CATALYZED HYDROGEN ABSTRACTION REACTIONS	5R01 GM20627-03	22,970
LOEB, LAWRENCE A.	THE CONTROL OF REPLICATION IN HUMAN LYMPHOCYTES	5R01 CA11524-06	92,674
LOEB, LAWRENCE A.	DNA POLYMERASES IN NORMAL AND LEUKEMIC LYMPHOCYTES	5R01 CA12818-05	59,877
MARCUS, ABRAHAM	INITIATION AND PEPTIDE SYNTHESIS IN VITRO	2R01 GM15122-09	77,891
MARCUS, ABRAHAM	MOLECULAR REGULATION OF CELL GROWTH IN CULTURE	5R01 GM20664-03	54,486
MASON, WILLIAM S.	REPLICATION OF ROUS SARCOMA VIRUS	5R01 CA16641-02	60,605
MELOCHE, H. PAUL	MICROENVIRONMENTAL GEOMETRY OF C-C LYASE ACTIVE SITES	5R01 GM18326-05	31,050
MILIDVAN, ALBERT S.	NMR STUDIES OF ENZYME-METAL-SUBSTRATE INTERACTIONS	5R01 AM13351-09	100,936
MILLMAN, IRVING	EFFECTS OF BACTERIA AND SUBFRACTIONS ON NEOPLASIA	5R01 CA17704-02	51,043
MINTZ, BEATRICE	GENE CONTROL OF MAMMALIAN DEVELOPMENT AND DISEASE	2R01 HD01646-17	199,507
NEMER, MARTIN J.	INFORMATIONAL MACROMOLECULES IN CELLULAR DIFFERENTIATION	5R01 HD04367-15	54,210
PREHN, RICHMOND T.	MECHANISMS OF CARCINOGENESIS	5R01 CA08856-10	345,280
PREHN, RICHMOND T.	HUMAN IMMUNE RESPONSE TO MALIGNANCY DURING IMMUNOTHERAPY	3R01 CA13456-03S2	50,669
PREHN, RICHMOND T.	HUMAN IMMUNE RESPONSE TO MALIGNANCY DURING IMMUNOTHERAPY	2R01 CA13456-04	141,355
ROSE, IRWIN A.	CARBOHYDRATE METABOLISM IN RED BLOOD AND TUMOR CELLS	5R01 AM17320-13	62,540
ROSE, IRWIN A.	ENZYME MECHANISMS OF C-H BOND ACTIVATION	5R01 GM20940-13	45,064
ROSE, ZELDA B.	ENZYMES OF 2,3-DIPHOSPHOGLYCERATE METABOLISM	2R01 GM19875-04	57,755
ROSE, ZELDA B.	ENZYMES OF 2,3-DIPHOSPHOGLYCERATE METABOLISM	5R01 GM19875-05	56,755
ROSS, MORRIS H.	REGULATION OF TUMOR SUSCEPTIBILITY	5R01 CA16442-02	53,478
SIMON, LEE D.	MOLECULAR MECHANISMS IN THE ASSEMBLY OF VIRUSES	5R01 AI11863-02	47,235



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
SOROF, SAM.....	MACROMOLECULES IN LIVER CARCINOGENESIS.....	2R01 CA05945-13	81,380
STRAWITZ, JOSEPH G.....	CENTRAL ONCOLOGY GROUP.....	3R10 CA14963-02S1	30,125
SUMMERS, JESSE W.....	CHARACTERIZATION OF VIRUS GENOMES IN TRANSFORMED CELLS.....	5R01 CA13506-05	61,167
TALBOT, TIMOTHY R, JR.....	SUPPORT FOR CLINICAL CANCER RESEARCH.....	5P01 CA06551-13	987,215
TALBOT, TIMOTHY R, JR.....	BIOLOGICAL AND BIOCHEMICAL PROGRAM IN CANCER RESEARCH.....	3P01 CA06927-13S1	2,825,099
TALBOT, TIMOTHY R, JR.....	BIOLOGICAL AND BIOCHEMICAL PROGRAM IN CANCER RESEARCH.....	2P30 CA05927-14	3,600,898
TALBOT, TIMOTHY R, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05539-14	181,215
TARTOF, KENNETH D.....	STRUCTURE AND FUNCTION OF GENES.....	5R01 GM19194-05	88,050
WEIGERT, MARTIN G.....	GENETIC CONTROL OF ANTIBODY STRUCTURE.....	5R01 GM20964-03	91,136
ZWEIDLER, ALFRED.....	HISTONES IN CELL DIFFERENTIATION AND CARCINOGENESIS.....	5R01 CA15135-03	59,166
ORGANIZATION TOTAL	47	11,435,481	
<b>LANKENAU HOSPITAL ZIP CODE 19151</b>			
CEVALLOS, WILLIAM H.....	UNSATURATED FATS—MODE OF HYPOCHOLESTEROLEMIC ACTION.....	5R01 HL17564-02	50,717
GABUZDA, THOMAS G.....	REGULATION IN DEVELOPING ERYTHROID CELLS.....	5R01 HL16654-04	66,592
HOLMES, WILLIAM L.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05585-10	22,568
REICHARD, GEORGE A, JR.....	METABOLIC SUBSTRATE UTILIZATION IN MAN.....	5R01 AM13527-06	93,741
REICHARD, GEORGE A, JR.....	GLUCOSE METABOLISM IN TRAUMA & DURING HYPERALIMENTATION.....	5R01 GM21549-02	59,995
ORGANIZATION TOTAL	5	293,613	
<b>MEDICAL COLLEGE OF PENNSYLVANIA ZIP CODE 19129</b>			
BANSAL, SUBHASH C.....	IMMUNE MANIPULATION IN RAT COLON TUMORS.....	5R26 CA16909-02	67,252
BANSAL, SUBHASH C.....	IMMUNE MANIPULATION IN RAT COLON TUMORS.....	5R26 CA16909-03	60,833
CAPUZZI, DAVID M.....	LIPID AND LIPOPROTEIN SYNTHESIS IN LIVER CELLS.....	7R01 HL20370-01	39,345
ELFVIN, MYRA J.....	ANALYSIS OF PARAMYOSIN-CONTAINING INVERTEBRATE MUSCLE.....	5R01 GM21956-02	45,644
ESKIN, BERNARD A.....	RADIOIODINE UPTAKE & IMAGING IN THE HUMAN BREAST.....	5R01 CA14705-03	31,645
FENICHEL, CAROL J.....	A COMPREHENSIVE BIBLIOGRAPHY ON WOMEN IN MEDICINE.....	3R01 LM02332-01S1	6,981
GABRIEL, KARL L.....	ANIMAL FACILITY IMPROVEMENT GRANT.....	1P40 RR01048-01	165,677
GOLDBERGER, MICHAEL E.....	AXONAL SPROUTING AND FUNCTIONAL RECOVERY IN THE CNS.....	5R01 NS1919-03	58,862
HOWARD, BARBARA V.....	THE METABOLISM OF LIPIDS IN CULTURED CELLS.....	7R01 HL19638-01	55,701
JOHNSON, EUGENE M, JR.....	A NEW APPROACH TO DRUG INDUCED SYMPATHECTOMY.....	5R01 HL16893-02	22,899
LEIGHTON, JOSEPH.....	BLADDER CANCER—MENISCUS GRADIENT AND MATRIX CULTURE.....	5R26 CA14137-05	77,548
LEIGHTON, JOSEPH.....	METAPLASIA AND NEOPLASIA IN THE HETEROTOPIC RAT BLADDER.....	5R26 CA17772-02	57,023
LEVISON, MATTHEW E.....	ROLE OF SHORT CHAIN FATTY ACIDS IN HEPATIC COMA.....	5R01 AM17549-03	19,289
MARSH, JULIAN B.....	STUDIES OF THE BIOSYNTHESIS OF PLASMA LIPOPROTEIN.....	1R01 HL19168-01	54,152
MAUSNER, JUDITH S.....	A CLINICAL AND ULTRASONIC STUDY OF VENOUS DISEASE.....	5R01 HL11774-08	37,286
MURPHY, E HAZEL.....	VISUAL DISCRIMINATION IN THE RABBIT.....	7R01 NS13663-01	20,315
MURRAY, MARION.....	GENERATION AND DEGENERATION OF AXONS.....	5R01 NS11644-03	42,551
ROBERTS, JAY.....	ROLE OF BIOLOGICAL MEMBRANES IN AGING PROCESSES.....	3P01 AG00003-04S1	32,920
ROBERTS, JAY.....	ROLE OF BIOLOGICAL MEMBRANES IN AGING PROCESSES.....	9P01 AG00003-05	153,362
ROBERTS, JAY.....	PHARMACOLOGY OF GENESIS OF CARDIAC RHYTHMICITY.....	3R01 HL13666-04S1	15,324
ROBERTS, JAY.....	PHARMACOLOGIC STUDIES OF CORONARY OCCLUSION ARRHYTHMIAS.....	5R01 HL16283-03	69,869
ROBERTS, JAY.....	PHARMACOLOGIC STUDIES OF CORONARY OCCLUSION ARRHYTHMIAS.....	5R01 HL16283-04	71,476
ROSS, LEONARD L.....	CYTOLOGICAL LOCALIZATION OF SEROTONIN.....	5R01 NS1364-04	68,181
ROTHBLAT, GEORGE H.....	STEROL METABOLISM IN TISSUE CULTURE CELLS.....	7R01 HL20608-01	110,651
RUBIN, WALTER.....	A FINE STRUCTURAL STUDY OF HUMAN GASTRIC EPITHELIA.....	5R01 AM14348-07	68,267
SCHICK, PAUL K.....	ISOLATION AND IDENTIFICATION OF PLATELET MEMBRANES.....	5R01 HL18249-02	44,151
SMITH, JANET D.....	CMV REPLICATION IN CHIMERIC AND HYBRID CELLS.....	5R01 AI12832-02	38,404
SUTNICK, ALTON I.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05418-15	104,138
WEISS, BENJAMIN.....	AGENTS INHIBITING PHOSPHODIESTERASES OF CANCER CELLS.....	5R01 CA15883-03	53,336
ORGANIZATION TOTAL	29	1,693,082	
<b>PENNSYLVANIA COLLEGE OF OPTOMETRY ZIP CODE 19141</b>			
HIGGINS, KENT E.....	SUPRATHRESHOLD SPATIAL INTERACTION IN PHOTOPIC VISION.....	5R01 EY00986-02	10,167
HIGGINS, KENT E.....	PERIPHERAL MECHANISMS IN FUNCTIONAL AMBLYOPIA.....	5R23 EY01473-02	9,039
ORGANIZATION TOTAL	2	19,206	
<b>PENNSYLVANIA HOSPITAL ZIP CODE 19107</b>			
BOGGS, THOMAS R, JR.....	PREMATURITY, VITAMIN E & RETROLENTAL FIBROPLASIA.....	1R01 EY01723-01	52,500
BOGGS, THOMAS R, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05590-12	32,286

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
JOHNSON, LOIS H.....	BILIRUBIN TOXICITY—METABOLIC EFFECTS OF PHOTOTHERAPY.....	5R01 HD06468-03	38,335
LERNER, HARVEY J.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	5R10 CA13613-04	62,068
LING, GILBERT N.....	NMR STUDY OF WATER IN CANCER AND IN NORMAL TISSUES.....	5R01 CA16301-02	51,767
LING, GILBERT N.....	CELL WATER, IONS AND CONTROL MECHANISMS.....	5R01 GM11422-12	73,400
SIMEONE, FREDERICK A.....	REGIONAL CEREBRAL METABOLISM AND BLOOD FLOW.....	5R01 NS11186-03	55,150
WALLACH, EDWARD E.....	INVESTIGATION OF THE MECHANICAL ASPECTS OF OVULATION.....	2R01 HD05948-03	73,600
ZACKS, SUMNER I.....	CONTROL OF PROTEIN SYNTHESIS IN MED MYOPATHY.....	5R01 NS09569-04	39,771
ORGANIZATION TOTAL	9 478,877		
<b>PENNSYLVANIA STATE DEPARTMENT OF PUBLIC WELFARE—EASTERN PENNSYLVANIA PSYCHIATRIC INSTITUTE ZIP CODE 19129</b>			
MUELLER, PAUL.....	RECONSTITUTION AND ANALYSIS OF MEMBRANE TRANSPORT.....	1R01 GM22655-01	36,000
MUELLER, PAUL.....	RECONSTITUTION AND ANALYSIS OF MEMBRANE TRANSPORT.....	5R01 GM22655-02	40,736
ORGANIZATION TOTAL	2 76,736		
<b>PHILADELPHIA COLLEGE OF PHARMACY AND SCIENCE ZIP CODE 19104</b>			
SUGITA, EDWIN T.....	METAL BINDING: DRUG ALLERGENICITY AND EFFECTIVENESS.....	5R01 AI11399-02	27,159
SUGITA, EDWIN T.....	METAL BINDING: DRUG ALLERGENICITY AND EFFECTIVENESS.....	5R01 AI11399-03	26,485
ORGANIZATION TOTAL	2 53,644		
<b>PHILADELPHIA GENERAL HOSPITAL ZIP CODE 19104</b>			
BASHEY, REZA I.....	BIOCHEMISTRY OF NORMAL AND DISEASED HEART VALVES.....	7R01 HL19128-01	51,314
BASHEY, REZA I.....	BIOCHEMISTRY OF NORMAL AND DISEASED HEART VALVES.....	5R01 HL19128-02	55,247
BOSEE, ROLAND A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05508-14	97,456
BRIGHTMAN, VERNON J.....	ATYPICAL FACIAL PAIN AND DISTURBED ORAL SENSATION.....	5R01 DE03764-03	46,851
KEFALIDES, NICHOLAS A.....	CHEMISTRY AND METABOLISM OF CONNECTIVE TISSUES.....	5P01 AM14526-07	324,920
MINOR, RONALD R.....	FACTORS IN LUNG DEVELOPMENT.....	5R01 HL17461-02	23,708
REIVICH, MARTIN.....	STROKE ACUTE CARE RESEARCH UNIT.....	5P50 NS151547-03	94,810
ROSENBLUM, JOEL.....	BIOCHEMICAL STEPS AND CONTROL OF COLLAGEN SYNTHESIS.....	5R01 AM14439-07	53,199
SELZER, MICHAEL E.....	EPILEPSY RELATED DRUGS AND CENTRAL SYNAPSES.....	5R01 NS12390-02	22,055
ORGANIZATION TOTAL	9 769,560		
<b>PHILADELPHIA GERIATRIC CENTER ZIP CODE 19141</b>			
ALTSCHULER, HENRY.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05611-09	23,437
ORGANIZATION TOTAL	1 23,437		
<b>PRESBYTERIAN-UNIVERSITY OF PENNSYLVANIA MEDICAL CENTER ZIP CODE 19104</b>			
BLOUGH, HERBERT A.....	TUMOR VIRUS LIPIDS: STRUCTURE AND BIOSYNTHESIS.....	5R01 CA15370-03	94,517
BLOUGH, HERBERT A.....	SURFACE CHEMISTRY OF THE CORNEA.....	3R01 EY01067-03S1	24,138
BURGESS, BENJAMIN F, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05610-10	51,103
LATIES, ALAN M.....	AUTONOMIC INNERVATION OF THE EYE.....	2R01 EY01194-04	108,049
ROCKEY, JOHN H.....	PRIMARY STRUCTURAL STUDIES OF VISUAL PIGMENTS.....	5R01 EY01193-04	55,435
ROCKEY, JOHN H.....	PRIMARY STRUCTURAL STUDIES OF VISUAL PIGMENTS.....	5R01 EY01193-05	61,936
ORGANIZATION TOTAL	6 395,178		
<b>ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN ZIP CODE 19133</b>			
AUERBACH, VICTOR H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05624-10	37,096
PUNNETT, HOPE M.....	GENETIC CONSTITUTIONS PREDISPOSING TO CANCER.....	1R01 CA19834-01	61,800
VAUGHAN, VICTOR C, III.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00075-13	479,150
ORGANIZATION TOTAL	3 578,046		
<b>TEMPLE UNIVERSITY ZIP CODE 19122</b>			
ADELMAN, RICHARD C.....	BIOCHEMICAL REGULATION OF AGING PROCESSES.....	5P01 AG00368-06	194,635
ADELMAN, RICHARD C.....	EFFECTS OF SENESCENCE ON ENZYME REGULATION.....	5R01 AG00431-05	32,374
BASERGA, RENATO L.....	STUDY OF FACTORS CONTROLLING CELLULAR PROLIFERATION.....	5R01 CA08373-12	76,225
BASERGA, RENATO L.....	A CORRELATED STUDY ON THE BIOLOGY OF NEOPLASIA.....	5P01 CA12923-04	360,604
BASERGA, RENATO L.....	A CORRELATED STUDY ON THE BIOLOGY OF NEOPLASIA.....	5P01 CA12923-05	344,405
BASERGA, RENATO L.....	SYNCHRONIZATION OF CELLS IN VIVO.....	2R26 CA14907-03	79,544
BASERGA, RENATO L.....	CHROMOSOMAL PROTEINS IN CELL PROLIFERATION.....	1R01 GM22359-01	69,939
BODEN, GUENTHER.....	INFLUENCE OF ENDOGENOUS SECRETIN ON INSULIN REGULATION.....	5R01 AM16348-03	61,067
BOVE, ALFRED A.....	CARDIAC FUNCTION IN HYPERTROPHY.....	1R01 HL19425-01	62,048

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
CAMPO, ROBERT D.	STUDIES ON ENDOCHONDRAL GROWTH	5R01 AM16270-03	47,814
CHANG, FONG N.	BACTERIAL RIBOSOME BIOSYNTHESIS AND RNA MINOR BASES	5R01 GM19302-05	37,100
CLARK, WALLACE H. JR.	BIOLOGY OF HUMAN CUTANEOUS MALIGNANT MELANOMA	5R01 CA11511-07	82,361
CLARK, WALLACE H. JR.	MALIGNANT MELANOMA CLINICAL COOPERATIVE GROUP	5R10 CA13669-04	71,976
CLARK, WALLACE H. JR.	MALIGNANT MELANOMA CLINICAL COOPERATIVE GROUP	5R10 CA13669-05	75,958
COHEN, ALLEN B.	A BIOCHEMICAL APPROACH TO PULMONARY EMPHYSEMA	1R01 HL18543-01	68,756
COHEN, ALLEN B.	A BIOCHEMICAL APPROACH TO PULMONARY EMPHYSEMA	5R01 HL18543-02	77,018
CONGER, ALAN D.	RADIOBIOLOGY RESEARCH PROGRAM	3R01 CA08231-10S2	4,382
CONGER, ALAN D.	RADIOBIOLOGY RESEARCH PROGRAM	5R01 CA08231-12	61,632
COULSON, LORNE R.	MYOCARDIAL ENERGETICS IN HYPERTROPHY AND HEART FAILURE	1R01 HL19461-01	86,338
DANCIS, BARRY M.	SEQUENCE ORGANIZATION IN HELA DNA	1R01 GM21671-01A2	37,889
EISENSTEIN, TOBY K.	PNEUMOCOCCAL AND SALMONELLA RIBOSOMAL VACCINES	5R01 AI11860-04	29,448
EISENSTEIN, TOBY K.	PNEUMOCOCCAL AND SALMONELLA RIBOSOMAL VACCINES	5R01 AI11860-05	37,690
ERNST, SUE C.	FUNCTION AND RENEWAL OF SURFACES IN SCHISTOSOMA	1R22 AI13350-01	27,416
FARBER, EMMANUEL	PATHOGENESIS OF LIVER CANCER	5R01 CA12218-06	156,037
FARBER, JOHN L.	PATHOGENESIS OF LIVER CELL NECROSIS	1R01 AM19154-01	52,508
FARBER, JOHN L.	CHROMATIN IN NORMAL AND PATHOLOGICAL LIVER CELLS	5R01 CA12073-05	33,819
HANSON, RICHARD W.	REGULATION OF GLUCONEOGENESIS IN MAMMALIAN LIVER	5R01 AM16009-05	50,028
HANSON, RICHARD W.	HORMONE REGULATION OF ENZYME LEVELS IN MAMMALIAN TISSUE	5R01 AM18034-02	58,628
HANSON, THOMAS E.	DEVELOPMENTAL TOPOLOGY OF VERTEBRATE VISUAL SYSTEMS	5R01 EY01469-02	28,372
HARRINGTON, GEORGE W.	ELECTROANALYTICAL STUDIES OF N-NITROSAMINES	5R01 CA18618-02	56,072
HARVEY, WILLIAM R.	PHYSIOLOGY OF INSECT DIAPIAUSE AND DEVELOPMENT	2R01 AI09503-07	84,390
HAVAS, HELGA F.	MECHANISM OF IMMUNOSUPPRESSION BY PLASMACYTOMAS	1R01 CA14300-01A3	53,901
HECKMAN, JAMES L.	THE DYNAMIC FUNCTION OF THE CARDIAC VALVES	1R01 HL19104-01	37,143
HIGGINS, MICHAEL L.	CELL DIVISION AND SURFACE GROWTH IN A 'MODEL' SYSTEM	5R01 AI10971-05	48,714
HILFER, S ROBERT	MUSCLE DIFFERENTIATION IN EMBRYONIC CHICK LIMB BUD	5R01 HD04669-06	72,454
HILLMAN, NINA W.	THE EFFECT OF RNA AND DNA ON CEPHALIC TERATA	5R01 HD00827-13	89,428
HILLMAN, NINA W.	STUDIES OF MOUSE SPERMATOGENESIS AND FERTILIZATION	1R01 HD09973-01	59,052
HILLMAN, RALPH	GENETIC TRANSLATION AS A CELLULAR CONTROL MECHANISM	5R01 GM18080-06	54,217
HOSTETLER, JOHN A.	FERTILITY PATTERNS IN AN AMERICAN ISOLATE SUBCULTURE	5R01 HD008137-02	114,014
JOHNSON, GEORGE	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 R07115-09	60,421
KIM, SANGDUK	ENZYMATIC MODIFICATION OF CARBOXYL RESIDUES IN PROTEIN	2R01 GM20594-04	79,986
KIRBY, EDWARD P.	STRUCTURE AND FUNCTION OF THE ANTIHEMOPHILIC FACTOR	3R01 HL15474-03S1	7,327
KIRBY, EDWARD P.	STRUCTURE AND FUNCTION OF BOVINE FACTOR VIII	2R01 HL15474-04	31,353
KROW, GRANT R.	THE SYNTHESIS OF ACTINOBOLIN AND RELATED MOLECULES	2R01 CA12020-04	20,504
KROW, GRANT R.	THE SYNTHESIS OF ACTINOBOLIN AND RELATED MOLECULES	5R01 CA12020-05	34,404
KROW, GRANT R.	SYNTHESIS OF THE ANTILEUKEMIC LIGNAN STEGANACIN	5R01 CA15759-03	43,922
KUNDEL, HAROLD L.	EARLY RADIOLOGIC DETECTION OF LUNG CANCER	5R01 CA16491-02	204,286
KUNDEL, HAROLD L.	VISUAL SEARCH AND FILM READER ERROR IN RADIOLOGY	5R01 GM21474-02	69,072
LARIMER, JAMES O.	OPPONENT-COLOR CODES: CANCELLATION & MAGNITUDE CODES	5R01 EY01172-04	29,893
LINNA, T JUHANI	INFLUENCE OF THE IMMUNE SYSTEM ON VIRAL TUMORIGENESIS	5R01 CA13347-05	71,559
LITWACK, GERALD	REACTION BETWEEN HORMONES AND TYROSINE OXIDASE SYSTEM	5R01 AM08350-13	34,119
LITWACK, GERALD	METABOLISM OF CORTISOL IN LIVER	5R01 AM13531-07	52,721
LO SCIUTO, LEONARD A.	FERTILITY-RELATED DECISION-MAKING AMONG MARRIED COUPLES	1R01 HD10685-01	134,109
LOTLIKAR, PRABHAKAR D.	MECHANISM OF CHEMICAL CARCINOGENESIS	5R01 CA10604-09	64,074
LYNCH, PETER R.	RADIOLOGY-PHYSIOLOGY CARDIOVASCULAR RESEARCH	3P01 HL08886-12S1	5,302
MAGEE, PETER	PATHOGENESIS OF LIVER CANCER	5R01 CA12218-07	165,591
MAIER, WILLIS P.	PRIMARY BREAST CANCER THERAPY GROUP	3R10 CA12034-04S1	2,538
MAYROVITZ, HARVEY N.	ROLE OF BIOELECTRIC POTENTIALS IN PLATELET ADHERENCE	1R01 HL19427-01	27,814
MC ELLIGOTT, JAMES G.	CEREBELLAR NEURONAL ACTIVITY AND MOTOR BEHAVIOR	2R01 NS10488-04A1	29,751
MILLER, ARTHUR S.	CLINICAL CANCER-DENTAL	1R25 CA19456-01	31,487
MILLER, RICHARD L.	STUDIES OF PRE-FERTILIZATION PHENOMENA IN ANIMALS	5R01 HD04543-06	29,683
MONSTER, ARIE W.	MOTOR UNIT BEHAVIOR IN VOLUNTARY MUSCLE CONTRACTION	1R01 NS11574-01A2	49,972
MOTE, MICHAEL I.	CELLULAR BASIS OF VISUAL INTEGRATION	5R01 EY00784-05	43,590
MOTE, MICHAEL I.	CELLULAR BASIS OF VISUAL INTEGRATION	5R01 EY00784-06	56,753
NICOLINI, CLAUDIO A.	COMPUTER-AIDED CELL SYNCHRONY IN ANIMALS	1R26 CA18258-01	135,264
NICOLINI, CLAUDIO A.	COMPUTER-AIDED CELL SYNCHRONY IN ANIMALS	5R26 CA18258-02	93,027
NIEWIAROWSKI, STEFAN	INTERACTION OF CELLS WITH POLYMERIZING FIBRIN	5R01 HL15226-04	35,937
NOVAL, JOSEPH J.	MECHANISM OF ANTITUMOR EFFECT OF PORTACAVAL SHUNT	5R01 CA15385-02	71,432
NOWOTNY, ALOIS H.	RELATION OF CHEMICAL STRUCTURE TO ENDOTOXIC ACTIVITY	5R01 CA16934-14	62,778



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
NOWOTNY, ALOIS H.....	ROLE OF BACTERIAL PRODUCTS IN PERIODONTAL DISEASE.....	5R01 DE03685-02	81,792
OWEN, OLIVER E.....	REGULATION OF KETOACID METABOLISM.....	5R01 AM16102-03	72,320
PAIK, WOON K.....	STUDIES ON PROTEIN METHYLATION IN NEOPLASTIC TISSUES.....	2R01 CA12226-06	70,369
PATEL, MULCHAND S.....	REGULATION OF METABOLIC PROCESSES IN DEVELOPING BRAIN.....	5R01 NS11088-04	44,160
PHILLIPS, STEVEN J.....	MORPHOMETRIC ANALYSIS OF THE SINUATRIAL NODE.....	1R01 HL19009-01	49,951
PIERINGER, RONALD A.....	BACTERIAL LIPID METABOLISM.....	5R01 AI05730-12	56,306
PLAUT, GERHARD W E.....	REGULATION OF PATHWAYS OF INTERMEDIARY METABOLISM.....	2R01 AM15404-06	88,385
RAJA, KODUNGALLORE G.....	IMMUNOLOGICAL STUDY OF LCAT IN MAMMALS.....	5R01 HL17431-02	44,310
REICHEL, FREDERICK A.....	PRE- AND POST-SHUNT HUMAN HEPATIC HEMODYNAMICS.....	5R01 AM18194-02	82,750
REICHEL, FREDERICK A.....	INFLUENCE OF PORTACAVAL SHUNT ON TUMOR GROWTH.....	5R01 CA14040-03	59,261
RUSY, BEN F.....	CARDIAC ENERGY UTILIZATION DURING ANESTHESIA.....	5R01 HL17919-02	14,442
SARMA, D S.....	STUDY OF LIVER DNA IN CHEMICAL CARCINOGENESIS.....	5R01 CA14689-03	25,598
SCHRAMM, VERN L.....	REGULATION OF ADENINE NUCLEOTIDE POOLS.....	5R01 GM21083-02	32,929
SCHWARTZ, ARTHUR G.....	ACTIONS OF CHEMICAL CARCINOGENS ON CULTURED CELLS.....	2R01 CA14661-04	41,014
SCHWARTZ, ARTHUR G.....	ACTIVATION OF CHEMICAL CARCINOGENS BY DIFFERENT SPECIES.....	1R01 CA19445-01	41,014
SEVY, ROGER W.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00349-10	425,976
SEVY, ROGER W.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	5P40 RR00816-03	9,467
SEVY, ROGER W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05417-15	261,305
SHERRY, SOL.....	SPECIALIZED CENTER FOR THROMBOSIS RESEARCH.....	3P50 HL14217-05S1	30,832
SHERRY, SOL.....	SPECIALIZED CENTER FOR THROMBOSIS RESEARCH.....	2P50 HL14217-06	1,191,008
SHOCKMAN, GERALD D.....	BIOSYNTHESIS OF BACTERIAL CELL WALLS AND MEMBRANES.....	5R01 AI05044-13	76,878
SHOCKMAN, GERALD D.....	INHIBITION OF HUMAN CARIOGENIC STREPTOCOCCI.....	5R01 DE03487-05	55,921
SMALLEY, RICHARD V.....	SOUTHEASTERN CANCER STUDY GROUP.....	5R10 CA07961-12	95,944
SMITH, COLLEEN M.....	REGULATION OF TOTAL COA LEVELS IN HEART AND LIVER.....	5R01 AM18045-02	34,040
SMITH, COLLEEN M.....	REGULATION OF TOTAL COA LEVELS IN HEART AND LIVER.....	5R01 AM18045-03	31,166
SODICOFF, MARVIN.....	PAROTID GLAND SECRETION FOLLOWING X-IRRADIATION.....	5R01 DE03666-03	25,919
SPANN, JAMES F, JR.....	EXPERIMENTAL CONGESTIVE HEART FAILURE AND HYPERTROPHY.....	5R01 HL17631-02	75,492
SPANN, JAMES F, JR.....	EXPERIMENTAL CONGESTIVE HEART FAILURE AND HYPERTROPHY.....	5R01 HL17631-03	109,282
SUHADOLNIK, ROBERT J.....	NUCLEOSIDE ANALOGS: BIOSYNTHESIS & ROLE IN THE CELL.....	5R01 AI12066-03	70,123
SWERN, DANIEL.....	BIOLOGICALLY ACTIVE FATTY ACID DERIVATIVES.....	3R01 CA07803-12S1	6,321
TRUEX, RAYMOND C.....	COMPARATIVE STUDY OF CARDIAC CONDUCTION SYSTEM.....	5R01 HL07047-15	61,924
URBACH, FREDERICK.....	THE BIOLOGIC EFFECTS OF ENVIRONMENTAL RADIATION.....	5P01 ES00269-10	280,769
VAN SCOTT, EUGENE J.....	CELL CONTROL IN INTEGUMENTAL CANCER.....	5P01 CA11536-07	418,456
VAN SCOTT, EUGENE J.....	CELL CONTROL IN INTEGUMENTAL CANCER.....	5P01 CA11536-08	417,845
WEINHOUSE, SIDNEY.....	METABOLISM OF NORMAL AND NEOPLASTIC TISSUES.....	5R01 AI01916-15	128,456
WEINHOUSE, SIDNEY.....	CORE PROGRAM IN CARCINOGENESIS.....	5P01 CA12227-06	934,887
WIEDEMAN, MARY P.....	THE MICROCIRCULATION AFTER INTRA-ARTERIAL BARBITURATES.....	5R01 HL17767-02	30,632
WILLIAMS, JOHN R.....	PHOTOSENSITIZATION DUE TO DRUGS.....	5R01 CA15348-03	33,775
WILLIAMS, JOHN R.....	THE SYNTHESIS OF POSTCOITAL ORAL CONTRACEPTIVES.....	5R01 HD09146-02	39,530
YAMAMOTO, NOBUTO.....	GENETIC EVOLUTION OF BACTERIOPHAGE.....	5R01 AI06429-11	69,553
ZISKIN, MARVIN C.....	EARLY RADIOLOGIC DIAGNOSIS OF CARDIAC FAILURE.....	1R01 HL18873-01	74,432
ORGANIZATION TOTAL	110	10,648,599	
<b>THOMAS JEFFERSON UNIVERSITY ZIP CODE 19107</b>			
BIANCHI, C PAUL.....	ELECTROLYTES IN NERVE AND MUSCLE FUNCTION.....	7R01 NS13601-01	56,336
BRENT, ROBERT L.....	PROBLEMS IN EXPERIMENTAL EMBRYOLOGY.....	5R01 HD00630-13	150,936
BRODOVSKY, HARVEY S.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	5R10 CA14215-04	94,120
BURKA, EDWARD R.....	MECHANISMS IN HEMOGLOBIN SYNTHESIS AND DESTRUCTION.....	5R01 AM13431-10	80,595
CHEPENIK, KENNETH P.....	BIOCHEMICAL EVENTS PRECEDING BIRTH DEFECTS.....	5R01 HD08433-03	72,786
COTTRELL, JOHN C.....	POTENTIAL CARCINOGENICITY OF CANNABIS.....	5R01 CA15050-03	25,945
D'ANGELO, SAVINO A.....	HYPOTHALAMIC-HYPOPHYSIAL-THYROID INTERACTION.....	5R01 AM00432-26	47,487
ERSLEV, ALLAN J.....	FEEDBACK BETWEEN RED CELL PRODUCTION & OXYGEN TRANSPORT.....	5R01 HL04612-17	120,197
ERSLEV, ALLAN J.....	FEEDBACK BETWEEN RED CELL PRODUCTION & OXYGEN TRANSPORT.....	5R01 HL04612-18	124,786
ERSLEV, ALLAN J.....	EXPANSION OF RESEARCH FACILITIES IN A HEMATOLOGIC CENTER.....	5P01 HL06374-16	83,644
GEE, MARLYS H.....	PULMONARY EPITHELIAL AND INTERSTITIAL ALBUMIN PATHWAY.....	1R23 HL19498-01	46,911
HAURANI, FARID I.....	ACUTE LEUKEMIA COOPERATIVE-STUDY GROUP B.....	2R10 CA05462-15	61,244
HAURANI, FARID I.....	ACUTE LEUKEMIA COOPERATIVE-STUDY GROUP B.....	5R10 CA05462-16	35,720
HERBISON, GERALD J.....	REINNERVATING MUSCLE IN ACTIVITY AND INACTIVITY.....	5R01 NS11656-02	52,884
JENSH, RONALD P.....	PRE- AND POSTNATAL EFFECTS OF MICROWAVE IRRADIATION.....	5R01 ES01121-02	99,574
KELLOW, WILLIAM F.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	5P40 RR00815-03	9,900



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
KELLOW, WILLIAM F.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05414-15	185,371
KING, LORRAINE C.....	HYPOTHALAMIC-HYPOPHYSIAL-THYROID INTERACTION.....	5R01 AM00432-27	55,180
KOCHHAR, DEVENDRA M.....	MECHANISMS UNDERLYING EXPERIMENTAL TERATOGENESIS.....	7R01 HD10935-01	85,853
KOSZALKA, THOMAS R.....	EMBRYOLOGIC ASPECTS OF CREATINE METABOLISM.....	2R01 HD06360-04	56,862
KRAMER, SIMON.....	RESEARCH AND CLINICAL RADIATION THERAPY CENTER.....	5P01 CA11602-07	618,684
KRAMER, SIMON.....	RADIATION THERAPY ONCOLOGY GROUP - HEADQUARTERS.....	2R10 CA12248-05	154,195
KRAMER, SIMON.....	COMMITTEE FOR RADIATION ONCOLOGY STUDIES.....	2R01 CA13212-05	269,130
KRAMER, SIMON.....	NEUTRON THERAPY PROJECT.....	1P01 CA19451-01	183,749
KRAMER, SIMON.....	RADIATION THERAPY ONCOLOGY GROUP.....	1R10 CA20235-01	94,565
LEEPER, DENNIS B.....	RECOVERY FROM RADIATION-INDUCED CYCLE DELAY.....	5R01 CA16110-03	67,614
LEFER, ALLAN M.....	INOTROPIC ACTIONS OF CORTICOSTEROIDS.....	5R01 HL17688-03	43,096
LEFER, ALLAN M.....	MYOCARDIAL DEPRESSANT FACTOR IN CIRCULATORY SHOCK.....	5R01 HL17745-02	50,948
LEFER, ALLAN M.....	MYOCARDIAL DEPRESSANT FACTOR IN CIRCULATORY SHOCK.....	5R01 HL17745-03	57,357
LEWIS, GEORGE C, JR.....	ADMINISTRATIVE OFFICE - GYNECOLOGIC ONCOLOGY GROUP.....	7R10 CA19189-01	266,077
LEWIS, GEORGE C, JR.....	HEADQUARTERS FOR GYNECOLOGIC ONCOLOGY GROUP.....	2R10 CA19189-02	747,766
LIBERTI, PAUL A.....	PHYSICOCHEMICAL STUDIES OF C1Q AND ITS INTERACTION.....	5R01 AI12655-10	67,293
MAURER, PAUL H.....	IMMUNOLOGICAL STUDIES WITH SYNTHETIC POLYPEPTIDES.....	5R01 AI07825-02	117,443
MOSKOWITZ, NORMAN.....	CONNECTIONS OF AUDITORY CORTEX.....	5R01 NS10806-03	42,191
MURPHY, SCOTT.....	EVALUATION OF PLATELET TRANSFUSIONS IN LEUKEMIA.....	7R01 CA20397-01	100,254
MURPHY, SCOTT.....	PLATELET PRESERVATION AND PHYSIOLOGY.....	5R01 HL19857-01	138,905
PANOS, CHARLES.....	HEMOLYTIC STREPTOCOCCI L-FORMS OF GROUP A, BETA.....	5R01 AI1161-05	53,671
PANOS, CHARLES.....	LIPID COMPONENTS OF CELL MEMBRANES OF MICROORGANISMS.....	5R01 AI11770-05	63,618
ROVETTO, MICHAEL J.....	MYOCARDIAL FUNCTION AND METABOLISM FOLLOWING ISCHEMIA.....	5R01 HL17895-02	40,885
SHABER, GARY S.....	LOW DOSE BREAST ELECTRON RADIOGRAPHY (IONOGRAPHY).....	1R01 CA19787-01	127,479
SHAPIRO, SANDOR S.....	CONTROL MECHANISMS IN HEMOSTASIS.....	5R01 HL09163-11	109,997
SHAPIRO, SANDOR S.....	CONTROL MECHANISMS IN HEMOSTASIS.....	5R01 HL09163-12	119,398
SIEGMAN, MARION J.....	CONTRACTION OF UTERINE AND INTESTINAL SMOOTH MUSCLE.....	5R01 HD06074-03	27,775
SILVER, MELVIN J.....	PLATELET PROSTAGLANDINS.....	5R01 HL14890-05	137,204
WEISS, ARTHUR J.....	CENTRAL ONCOLOGY GROUP.....	3R10 CA12294-05S1	102,270
WHEELOCK, E FREDERICK.....	SUPPRESSION OF ESTABLISHED LEUKEMIA VIRUS INFECTIONS.....	3R01 CA12461-04S1	10,600
WHEELOCK, E FREDERICK.....	SUPPRESSION OF ESTABLISHED LEUKEMIA VIRUS INFECTIONS.....	5R01 CA12461-05	108,869
WHEELOCK, E FREDERICK.....	STUDIES OF TUMOR DORMANCY AND EMERGENCE.....	1R01 CA18995-01	49,842
WILPIZESKI, CHESTER R.....	EVALUATION OF LASERS FOR OTOLOGIC MICROSURGERY.....	5R01 NS11688-02	70,053
YU, FU-LI.....	RIBOSOMAL RNA SYNTHESIS IN NORMAL AND CANCER CELLS.....	5R01 CA15905-03	78,974
ORGANIZATION TOTAL	50	5,666,233	
<b>UNIVERSITY OF PENNSYLVANIA ZIP CODE 19174</b>			
ADLER, NORMAN T.....	BIOPSYCHOLOGY OF REPRODUCTION.....	3R01 HD04522-06S1	9,807
ADLER, NORMAN T.....	BIOPSYCHOLOGY OF REPRODUCTION.....	2R01 HD04522-07	95,217
AGUIRRE, GUSTAVO D.....	CONE DEGENERATION-STRUCTURAL AND FUNCTIONAL STUDIES.....	2R01 EY01244-04	89,056
ASBURY, ARTHUR K.....	STUDIES OF NEUROMUSCULAR DISEASES.....	5P50 NS08075-08	458,801
BAGDASARIAN, ANDRANIK.....	KININ-FORMING PATHWAY IN NORMAL AND MALIGNANT TISSUES.....	5R01 CA16607-02	40,287
BAHN, ANITA K.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	1P20 CA18424-01	50,810
BARKER, CLYDE F.....	BIOLOGY OF TISSUE AND ORGAN TRANSPLANTATION.....	5R01 AI11051-03	50,087
BAUM, STANLEY.....	ANGIOGRAPHIC DIAGNOSIS AND CONTROL OF GI BLEEDING.....	7R01 AM19453-01	37,146
BECKMAN, ALEXANDER L.....	CNS THERMOREGULATORY MECHANISMS AND BIOGENIC AMINES.....	5R01 NS10597-04	32,627
BECKMAN, ALEXANDER L.....	CNS THERMOREGULATORY MECHANISMS AND BIOGENIC AMINES.....	5R01 NS10597-05	36,264
BIANCHI, C PAUL.....	ELECTROLYTES IN NERVE AND MUSCLE FUNCTION.....	5R01 NS03321-15	52,826
BLASIE, J KENT.....	STRUCTURE & FUNCTION OF MEMBRANES INVOLVED IN VISION.....	5R01 EY00673-05	50,069
BOETTIGER, DAVID E.....	GENETIC ANALYSIS OF RNA TUMOR VIRUSES.....	5R01 CA16502-02	48,302
BORA, F WILLIAM, JR.....	INHIBITION OF SCARS IN TENDON AND NERVE INJURY.....	5R01 AM16186-04	202,756
BOTELHO, STELLA Y.....	LACRIMAL GLAND: FACTORS INFLUENCING SECRETION.....	5R01 EY00119-06	49,979
BRACKETT, BENJAMIN G.....	RABBIT SPERM CAPACITATION AND FERTILIZATION.....	5R01 HD09406-02	81,744
BRENNAN, JAMES T.....	FINAL DEVELOPMENT OF A 14 MEV NEUTRON THERAPY SYSTEM.....	5R01 CA17698-02	223,266
BRIGHT, HAROLD J.....	MECHANISM OF ENZYME ACTION.....	5R01 GM11040-13	63,301
BRIGHTMAN, VERNON J.....	ATYPICAL FACIAL PAIN AND DISTURBED ORAL SENSATION.....	7R01 DE04756-01	60,376
BRIGHTON, CARL T.....	STIMULATION OF EXTREMITY GROWTH BY ELECTRICAL FIELDS.....	2R01 AM13812-07	116,111
BRIGHTON, CARL T.....	ARTICULAR CARTILAGE PRESERVATION AND TRANSPLANTATION.....	5R01 AM15091-06	71,363
BRIGHTON, CARL T.....	ACCELERATION OF FRACTURE HEALING BY ELECTRICAL FIELDS.....	5R01 AM18033-02	117,500
BRIGHTON, CARL T.....	ACCELERATION OF FRACTURE HEALING BY ELECTRICAL FIELDS.....	5R01 AM18033-03	127,050

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
BRINSTER, RALPH L.....	REGULATION OF CANCER CELL DEVELOPMENT.....	5R01 CA14676-03	43,028
BRINSTER, RALPH L.....	PROTEIN METABOLISM IN THE PREIMPLANTED MOUSE EMBRYO.....	5R01 HD08452-03	61,662
BRINSTER, RALPH L.....	CELL DIFFERENTIATION IN THE MOUSE EMBRYO.....	5R01 HD08539-02	46,714
BROOKS, FRANK P.....	VAGAL CONTROL OF GASTRIC SECRETION.....	5R01 AM14563-06	73,360
BUCHANAN, JAMES W.....	PATENT DUCTUS ARTERIOSUS AND PULMONARY HYPERTENSION.....	5R01 HL17581-02	60,863
CAGAN, ROBERT H.....	MECHANISMS OF TASTE FUNCTION.....	5R01 NS08775-07	47,324
CASILETH, PETER A.....	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA18106-02	154,176
CAVA, MICHAEL P.....	BENZYLISOQUINOLINE ALKALOID STUDIES.....	3R01 CA11445-07S2	14,687
CHANCE, BRITTON.....	THE REGULATION OF CELLULAR ENERGY METABOLISM.....	3P01 GM12202-12S1	24,189
CHANCE, BRITTON.....	OXYGEN DELIVERY TO TISSUE.....	5R01 HL17826-02	44,236
CHANCE, BRITTON.....	OXYGEN, ENERGY AND CONTRACTILITY IN CARDIAC TISSUE.....	1P01 HL18708-01	446,228
CHARALAMPOUS, FRIXOS C.....	PLASMA MEMBRANES OF NORMAL AND TUMOR CELLS.....	5R01 CA02228-22	59,741
CIVAN, MORTIMER M.....	TRANSPORT AND THE INTRACELLULAR FLUIDS.....	5R01 AM16586-03	61,973
COBURN, RONALD F.....	CARBON MONOXIDE PRODUCTION AND BODY CO STORES.....	2R01 HL10331-11	54,095
COHEN, D WALTER.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05337-15	94,554
COHEN, SIDNEY.....	PHYSIOLOGIC CHARACTERISTICS OF THE PYLORIC SPHINCTER.....	3R01 AM16280-03S1	16,231
COHN, MILDRED.....	NMR AND EPR STUDIES OF MUSCLE-ENZYME COMPLEXES.....	5R01 GM12446-12	70,174
COHN, MILDRED.....	NMR AND EPR STUDIES OF MUSCLE-ENZYME COMPLEXES.....	5R01 GM12446-13	84,404
COLMAN, ROBERT W.....	MOLECULAR BASIS OF ACTIVATION OF COAGULATION PROTEINS.....	3R01 HL16583-02S1	43,650
COLMAN, ROBERT W.....	MOLECULAR BASIS OF ACTIVATION OF COAGULATION PROTEINS.....	2R01 HL16583-03	30,577
COLMAN, ROBERT W.....	MOLECULAR BASIS OF ACTIVATION OF COAGULATION PROTEINS.....	5R01 HL16583-04	82,053
COLMAN, ROBERT W.....	BIOCHEMISTRY AND PATHOPHYSIOLOGY OF PLASMA KALLIKREIN.....	5R01 HL16642-03	120,868
COLMAN, ROBERT W.....	PLATELET-LIPOPROTEIN INTERACTIONS IN THROMBOGENESIS.....	1R01 HL18209-01A1	33,902
COOPER, DAVID Y.....	AEROBIC HYDROXYLASES IN STEROID AND DRUG METABOLISM.....	5R01 AM04484-16	84,478
COOPER, DAVID Y.....	AEROBIC HYDROXYLASES IN STEROID AND DRUG METABOLISM.....	5R01 AM04484-17	90,976
COOPER, DAVID Y.....	HEPATIC P-450 SYSTEMS INDUCED BY ARYL CARCINOGENS.....	5R01 CA17618-02	49,193
COOPER, RICHARD A.....	DISORDERS OF THE RED CELL MEMBRANE IN DISEASES.....	3R01 AM15441-04S1	17,192
COOPER, RICHARD A.....	DISORDERS OF THE RED CELL MEMBRANE IN DISEASES OF MAN.....	2R01 AM15441-05A1	73,616
COOPER, RICHARD A.....	MONOCYTE DETECTION OF THE HUMAN CANCER CELL SURFACE.....	5R01 CA15236-03	100,507
COOPER, RICHARD A.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	5R10 CA14888-03	26,081
COOPERMAN, BARRY S.....	PYROPHOSPHATASE MECHANISM-ADENYLATE AFFINITY LABELS.....	5R01 AM13212-08	35,041
COX, ROBERT H.....	ARTERIAL WALL STRUCTURE-FUNCTION RELATIONS.....	5R01 HL17840-02	52,553
COX, ROBERT H.....	ARTERIAL BARORECEPTORS IN CARDIOVASCULAR CONTROL.....	1R01 HL19256-01	50,979
D'ANGIO, GIULIO J.....	RADIATION THERAPY ONCOLOGY GROUP.....	2R10 CA13457-04	77,314
D'ANGIO, GIULIO J.....	CANCER CENTER SUPPORT GRANT.....	3P01 CA16520-01S1	19,440
D'ANGIO, GIULIO J.....	CANCER CENTER SUPPORT GRANT.....	5P30 CA16520-02	641,823
DAVIDOVITCH, ZEEV.....	BIOCHEMICAL ASPECTS OF TOOTH ERUPTION AND RESORPTION.....	5R01 DE03619-04	72,680
DETWEILER, DAVID K.....	COMPARATIVE CARDIOVASCULAR STUDIES UNIT.....	3P01 HL04885-16S2	35,681
DETWEILER, DAVID K.....	CRITICAL REVIEW OF ELECTROCARDIOGRAPH.....	3R01 LM01660-03S1	3,492
DONOHUE, JERRY.....	HYDROGEN BONDS IN BIOLOGICAL COMPOUNDS STRUCTURAL STUDY.....	5R01 GM20611-02	32,732
DOTY, RICHARD L.....	HORMONAL INFLUENCES UPON HUMAN NASAL CHEMORECEPTION.....	5R01 NS12239-02	23,958
EASTERLIN, RICHARD A.....	SOCIOECONOMIC STUDIES OF FERTILITY.....	5R01 HD05427-05	106,276
EASTERLIN, RICHARD A.....	SOCIOECONOMIC STUDIES OF FERTILITY.....	5R01 HD05427-06	117,788
ENGLANDER, S WALTER.....	PHYSICAL STUDIES OF BIOLOGICAL MACROMOLECULES.....	5R01 AM11295-11	101,438
EPSTEIN, ALAN N.....	THE NEUROLOGICAL BASES OF FEEDING AND DRINKING.....	5R01 NS03469-15	77,116
EPSTEIN, ALAN N.....	THE NEUROLOGICAL BASES OF FEEDING AND DRINKING.....	5R01 NS03469-16	64,420
ERULKAR, SOLOMON D.....	PHARMACOLOGICAL STUDIES ON CENTRAL SYNAPTIC TRANSMISSION.....	5R01 NS12211-02	63,844
EWENS, WARREN J.....	STOCHASTIC PROCESSES IN GENETIC POPULATIONS.....	5R01 GM21135-03	23,474
FARRELL, JAY P.....	IMMUNOLOGICAL ASPECTS OF VISCERAL LEISHMANIASIS.....	5R01 AI12663-02	36,138
FERGUSON, JAMES J, JR.....	POSTTRANSCRIPTIONAL-TRANSLATIONAL CONTROL MECHANISMS.....	1R01 GM22511-01A1	65,719
FERGUSON, JAMES J, JR.....	BIOCHEMISTRY OF SPERM AND OTHER REPRODUCTIVE TISSUES.....	5R01 HD05507-05	61,861
FERGUSON, JAMES J, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05415-15	261,305
FERRER, JORGE F.....	COMPARATIVE LEUKEMIA STUDIES UNIT.....	2P01 CA14193-04	267,644
FERRER, JORGE F.....	VIROLOGICAL STUDIES ON BOVINE LEUKEMIA.....	5R01 CA15195-02	62,354
FISCHER, GRACE M.....	EFFECT OF SEX HORMONES ON VASCULAR CONNECTIVE TISSUE.....	5R01 HL17721-02	57,371
FISHER, ARON B.....	LUNG OXIDATIVE METABOLISM AND ENERGY PRODUCTION.....	5R01 HL15013-05	45,623
FISHMAN, ALFRED P.....	CARDIOVASCULAR AND PULMONARY PERFORMANCE.....	5P01 HL08805-12	1,060,063
FISHMAN, ALFRED P.....	REGULATION OF VENTILATION AND PULMONARY CIRCULATION.....	2P01 HL08805-13	1,123,230
FISHMAN, ALFRED P.....	RESPONSE OF LUNG TO INJURY.....	5P50 HL15061-05	509,999
FLAKS, JOEL G.....	MECHANISMS OF ANTIBIOTIC ACTION AND RIBOSOME FUNCTION.....	2R01 AI03899-16	80,839

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
FORSMAN, WILLIAM C.....	RHEOLOGY OF PULMONARY SECRETIONS.....	2R01 HL15155-03	41,011
FORSMAN, WILLIAM C.....	RHEOLOGY OF PULMONARY SECRETIONS.....	5R01 HL15155-04	39,292
FORSTER, ROBERT E.....	MEASUREMENT OF RATES OF GAS UPTAKE BY HUMAN RED CELLS.....	3R01 HL04108-17S1	23,292
FORSTER, ROBERT E.....	MEASUREMENT OF RATES OF GAS UPTAKE BY HUMAN RED CELLS.....	5R01 HL04108-18	112,259
FRANKEL, FRED R.....	REPLICATION OF THE DNA OF T-EVEN BACTERIOPHAGES.....	5R01 AI05722-13	65,729
FRANKEL, FRED R.....	MAMMARY CANCER AND THE NUCLEAR ESTRADIOL ACCEPTOR.....	5R01 CA17301-02	65,758
FURTH, JOHN J.....	RNA METABOLISM IN MAMMALIAN CELLS.....	5R01 GM10390-14	50,105
GAMBETTI, PIERLUIGI.....	STUDIES ON SYNAPTOSOMES AND AXONS.....	5R01 NS08933-07	150,202
GARFINKEL, DAVID.....	COMPUTER MODELING OF METABOLIC SYSTEMS.....	2R01 GM16501-08	69,840
GARFINKEL, DAVID.....	COMPUTER SIMULATION IN CARDIOLOGY.....	5R01 HL15622-03	159,117
GASIC, GABRIEL J.....	ROLE OF PLATELETS AND CLOTTING IN METASTASIS.....	5R01 CA15728-03	92,204
GASSER, DAVID L.....	GENETIC CONTROL OF THE IMMUNE RESPONSE.....	5R01 CA15146-04	50,918
GELMAN, ROCHEL S.....	STUDIES IN COGNITIVE DEVELOPMENT.....	5R01 HD04598-07	40,937
GERSTEIN, GEORGE L.....	STUDIES OF INTERACTION BETWEEN NEURONS.....	5R01 NS05606-12	54,936
GINSBERG, MYRON D.....	BRAIN BLOOD FLOW AND METABOLISM IN HYPOXIA-ISCHEMIA.....	5R01 NS12294-02	57,876
GOLDBERG, MARTIN.....	ELECTROLYTE DISTURBANCES IN CARDIORENAL DISEASE.....	5R01 HL00340-27	302,510
GOLDBERG, MARTIN.....	ELECTROLYTE DISTURBANCES IN CARDIORENAL DISEASE.....	5R01 HL00340-28	350,342
GOLDBERG, MARTIN.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00040-16	702,988
GOLDFINE, HOWARD.....	STRUCTURE AND FUNCTION OF BACTERIAL LIPIDS.....	5R01 AI08903-08	68,452
GOLDFINE, HOWARD.....	STRUCTURE AND FUNCTION OF BACTERIAL LIPIDS.....	5R01 AI08903-09	73,823
GONATAS, NICHOLAS K.....	CELLULAR ASPECTS OF NEUROLOGIC DISORDERS.....	5R01 NS05572-12	184,333
GONATAS, NICHOLAS K.....	CELLULAR ASPECTS OF NEUROLOGIC DISORDERS.....	5R01 NS05572-13	194,205
GOODGAL, SOL H.....	STUDIES ON TRANSFORMATION IN HEMOPHILUS INFLUENZAE.....	5R01 AI04557-15	95,594
GOTS, JOSEPH S.....	BIOSYNTHESIS AND INTERCONVERSION OF PURINES.....	2R01 CA02790-21	66,540
HALLIWELL, RICHARD E.....	RHEUMATOID ARTHRITIS IN AN EXPERIMENTAL MODEL.....	1R01 AM18666-01	62,565
HAND, PETER J.....	CORTICAL-THALAMIC RELATIONSHIPS.....	2R01 NS06716-10A1	42,879
HAUGAARD, NIELS.....	REGULATION OF METABOLISM BY DRUGS AND HORMONES.....	2R01 HL01813-22	64,773
HAUGAARD, NIELS.....	REGULATION OF METABOLISM BY DRUGS AND HORMONES.....	5R01 HL01813-23	68,264
HAYES, WILSON C.....	MECHANICS OF NORMAL, ARTHRITIC AND PROSTHETIC KNEES.....	7R01 AM20135-01	32,395
HESS, MARILYN E.....	ROLE OF CALCIUM AND THYROXINE IN HEART FUNCTION.....	5R01 HL16436-02	25,141
HICKS, RICHARD E.....	PLATELET FUNCTION DURING EXTRACORPOREAL PERFUSION.....	1R01 HL19055-01	172,109
HIRSHELD, JOHN W, JR.....	LEFT VENTRICULAR FUNCTION IN AORTIC REGURGITATION.....	1R01 HL18683-01	67,442
HOCHSTRASSER, ROBIN M.....	PHOTOPROCESSES IN THE ORGANIC SOLID STATE.....	5R01 GM12592-12	46,181
HOGUE-ANGELETTI, RUTH A.....	STUDIES ON PROTEINS OF CATECHOLAMINE STORAGE VESICLES.....	1R01 NS13201-01	91,191
HOLTZER, HOWARD.....	CONVERSION OF EMBRYONIC CELLS INTO TRANSFORMED CELLS.....	1R01 CA18194-01	93,901
HOLTZER, HOWARD.....	CONVERSION OF EMBRYONIC CELLS INTO TRANSFORMED CELLS.....	5R01 CA18194-02	104,310
HOLTZER, HOWARD.....	MECHANISMS IN DIFFERENTIATION OF MESODERMAL TISSUES.....	5R01 HD00189-23	74,417
HORWITZ, ALAN F.....	DETERMINANTS OF MEMBRANE PHENOMENA IN MYOGENIC CELLS.....	1R01 GM23244-01	64,861
INOUE, SHINYA.....	STUDIES OF SUBMICROSCOPIC STRUCTURE OF LIVING CELLS.....	9R01 GM23475-11	185,009
JOULLIE, MADELEINE M.....	SYNTHESIS OF POTENTIAL DIURETIC AND HYPOLYCEMIC AGENTS.....	5R01 GM18028-03	30,321
KAJI, AKIRA.....	DRUG RESISTANCE FACTOR AND HOST PLASMID RELATIONSHIP.....	5R01 AI12337-02	25,043
KAJI, AKIRA.....	STUDIES ON THE REPLICATION OF RNA TUMOR VIRUSES.....	1R01 CA19497-01	70,406
KAJI, AKIRA.....	BIOCHEMICAL CONTROL OF MACROMOLECULE SYNTHESIS.....	5R01 GM12053-13	51,563
KALLENBACH, NEVILLE R.....	PROPERTIES, FUNCTIONS AND APPLICATIONS OF RNA LIGASES.....	5R01 GM22258-02	48,622
KARE, MORLEY R.....	2ND CONFERENCE ON THE CHEMICAL SENSES AND NUTRITION.....	1R13 DE04533-01	10,000
KARUSH, FRED.....	INTERACTIONS OF IMMUNOGLOBULINS.....	5R01 AI09492-16	130,910
KAUFFMAN, STUART A.....	ANALYSIS OF DETERMINATION DECISIONS IN DROSOPHILA.....	1R01 GM22341-01	61,245
KENNETT, ROGER H.....	GENETICS AND BIOCHEMISTRY OF HUMAN LEUKEMIA ANTIGENS.....	1R01 CA18930-01	55,015
KIM, SEUNG U.....	EXPERIMENTAL NEUROPATHOLOGY IN TISSUE CULTURE.....	5R01 NS10648-04	49,243
KIM, SEUNG U.....	EXPERIMENTAL NEUROPATHOLOGY IN TISSUE CULTURE.....	5R01 NS10648-05	22,116
KLEINZELLER, ARNOST.....	ACTIVE SUGAR TRANSPORT IN RENAL CELLS.....	5R01 AM12619-09	62,070
KLINMAN, NORMAN R.....	CLONAL ANALYSIS OF THE IMMUNE MECHANISM.....	5R01 AI08778-08	90,682
KOELLE, GEORGE B.....	NEUROHUMORAL TRANSMITTERS AND RELATED DRUGS.....	5R01 NS00282-24	101,693
KOHLER, ROBERT E.....	BIOCHEMISTRY, BIOMEDICINE AND THEIR PATRONS, 1914-1940.....	1R01 LM02630-01	10,559
KOHLER, ROBERT E.....	BIOCHEMISTRY, BIOMEDICINE AND THEIR PATRONS, 1914-1940.....	5R01 LM02630-02	12,023
KOZINSKI, ANDRZEJ W.....	INTERACTION OF VIRUSES WITH HOST CHROMOSOMES.....	5R01 CA10055-10	42,844
KRITCHEVSKY, DAVID.....	ACID AND ALKALINE LIPASES IN AORTAS OF VARIOUS SPECIES.....	2R01 HL13722-06	30,301
KRON, REUBEN E.....	FRESH BLOOD RHEOLOGY-RELATION TO CARDIOVASCULAR RISK.....	5R01 HL17408-02	60,564
KUHL, DAVID E.....	QUANTITATIVE SECTION SCANNING IN BRAIN TUMOR AND STROKE.....	5R01 GM16248-18	108,045
LAMBERTSEN, CHRISTIAN J.....	TOLERANCE TO RESPIRATORY GASES IN HEALTH AND DISEASE.....	5P01 HL08899-12	762,197



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
LANGENBERG, DONALD N.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07083-11	124,643
LANGFITT, THOMAS W.....	HEAD INJURY CLINICAL RESEARCH CENTER.....	5P50 NS08803-06	467,532
LANGFITT, THOMAS W.....	HEAD INJURY CLINICAL RESEARCH CENTER.....	2P50 NS08803-07	700,937
LASH, JAMES W.....	ANALYSIS OF CHONDROGENESIS.....	2R01 HD00380-18	139,663
LASH, JAMES W.....	ANALYSIS OF CHONDROGENESIS.....	5R01 HD00380-19	138,412
LEBOY, PHOEBE S.....	TRNA METHYLASES IN NORMAL AND NEOPLASTIC TISSUE.....	5R01 CA10586-09	52,883
LEHR, HERNDON B.....	MICROWAVE THAWING OF FROZEN TISSUE.....	1R01 AM17865-01A1	79,218
LEVINE, SANFORD.....	METABOLIC CONTROL OF VENTILATION.....	5R01 HL17562-02	20,545
LIEBMAN, PAUL A.....	MICROPHOTOMETRIC STUDIES ON RETINAL RODS AND CONES.....	5R01 EY00012-13	98,652
LIEBMAN, PAUL A.....	MICROPHOTOMETRIC STUDIES ON RETINAL RODS AND CONES.....	5R01 EY00012-14	102,211
LIEBMAN, PAUL A.....	VISION RESEARCH CENTER.....	5P30 EY01583-02	108,283
LITT, MITCHELL.....	PHYSICOCHEMICAL PROPERTIES OF TRACHEAL MUCUS.....	5R01 HL14271-04	50,825
LITT, MITCHELL.....	PHYSICOCHEMICAL PROPERTIES OF TRACHEAL MUCUS.....	5R01 HL14271-05	54,971
LO, CHAI-HO W.....	STUDIES OF THE PLASMA MEMBRANES OF GUSTATORY TISSUES.....	5R01 DE04348-02	52,782
LU, PONZY.....	NMR STUDY OF A REGULATORY PROTEIN.....	1R01 GM22623-01	43,122
MACK, ROBERT W.....	THE RELATIONSHIP OF INFANT GROWTH TO ADOLESCENT OBESITY.....	5R01 HD07924-03	136,390
MARSHAK, ROBERT R.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05464-14	141,388
MARSHALL, BRYAN E.....	CAUSES AND EFFECTS OF LUNG WATER ACCUMULATION.....	5R01 HL16916-02	81,259
MARSHALL, BRYAN E.....	CAUSES AND EFFECTS OF LUNG WATER ACCUMULATION.....	5R01 HL16916-03	97,036
MASTROIANNI, LUIGI, JR.....	A COORDINATED PROGRAM IN REPRODUCTIVE BIOLOGY.....	5P01 HD06274-05	572,126
MC ARTHUR, WILLIAM P.....	AVIAN ANTITUMOR IMMUNITY.....	5R01 CA16576-02	43,201
MC ARTHUR, WILLIAM P.....	AVIAN ANTITUMOR IMMUNITY.....	5R01 CA16576-03	47,101
MC DONALD, GEORGE G.....	MIDDLE ATLANTIC REGIONAL NMR FACILITY.....	5P41 RR00542-06	464,311
MELA, LEENA M.....	INTRACELLULAR CHANGES INDUCED BY SHOCK AND TRAUMA.....	2R01 GM19867-04	78,807
MELA, LEENA M.....	INTRACELLULAR CHANGES INDUCED BY SHOCK AND TRAUMA.....	5R01 GM19867-05	135,676
MELLMAN, WILLIAM J.....	HUMAN GENETICS CENTER.....	5P50 GM20138-03	581,286
MELLMAN, WILLIAM J.....	BIOCHEMICAL GENETICS OF CULTURED HUMAN CELLS.....	5R01 HD00588-14	84,330
MELLMAN, WILLIAM J.....	THE GENETICS OF GALACTOSE ENZYME DETERMINANTS IN MAN.....	5R01 HD04861-07	66,072
MERRITT, ALFRED M, II.....	DISSECTION OF GASTRIC SECRETORY CONTROL.....	5R01 AM16598-03	42,355
MIKUTA, JOHN J.....	GYNECOLOGIC ONCOLOGY GROUP.....	2R10 CA15977-03	48,460
MITRUKA, BRU M.....	GAS CHROMATOGRAPHY AS AN AID IN CLINICAL PATHOLOGY.....	5R01 GM21443-03	59,911
MONTGOMERY, PAUL C.....	MOLECULAR DIVERSITY OF SECRETORY ANTIBODIES.....	5R01 AI12314-02	47,283
MOORE, E NEIL.....	ELECTROPHYSIOLOGY OF FIBRILLATION.....	5R01 HL16076-03	64,064
MOORE, E NEIL.....	ELECTROPHYSIOLOGY OF FIBRILLATION.....	5R01 HL16076-04	106,623
MORAD, MARTIN.....	ELECTROPHYSIOLOGY OF PRENATAL TO ADULT MAMMAL HEARTS.....	5R01 HL16152-03	42,790
MORAD, MARTIN.....	ELECTROPHYSIOLOGY OF PRENATAL TO ADULT MAMMAL HEARTS.....	5R01 HL16152-04	43,012
MORAD, MARTIN.....	DYES AS ELECTROCHROMIC PROBES IN CARDIAC TISSUES.....	5R01 HL17702-02	39,873
MYERS, HOWARD M.....	CENTER FOR ORAL HEALTH RESEARCH.....	5P50 DE02623-10	1,455,027
NACHMIAS, VIVIANNE T.....	CYTOPLASMIC STREAMING AND CONTRACTILE PROTEINS.....	5R01 AM17492-04	40,753
NARASIMHULU, SHAKUNTALA.....	STEROID HORMONE SYNTHESIS AND ADRENAL MICROSOMAL P-450.....	5R01 AM18545-02	27,630
NASS, MARGIT M.....	MITOCHONDRIAL GENETIC SYSTEM IN NORMAL & CANCER CELLS.....	2R01 CA13814-04	75,478
NEGENDANK, WILLIAM.....	REGULATION OF CELL VOLUME IN DISEASE STATES.....	5R01 HL16201-03	37,427
NILSSON, ULF R.....	STRUCTURE AND FUNCTION OF HUMAN C5.....	5R01 AM13515-07	45,517
NOORDERGRAAF, ABRAHAM.....	COMPUTER STUDIES OF HUMAN CIRCULATORY SYSTEM.....	3R01 HL10330-08S2	32,034
NOORDERGRAAF, ABRAHAM.....	PHYSIOLOGICAL MECHANICS OF THE HEART AND ARTERIES.....	2R01 HL10330-09	57,091
NOWELL, PETER C.....	LEUKOCYTE REGULATORY MECHANISMS.....	5R01 CA12779-04	42,695
NOWELL, PETER C.....	LEUKOCYTE REGULATORY MECHANISMS.....	5R01 CA12779-05	49,407
OLJET, SEYMOUR.....	IMPROVEMENT IN CHARACTERISTICS AND USE OF GUTTA-PERCHA.....	5R01 DE04206-02	51,102
ORKAND, RICHARD K.....	LONG-TERM INTERACTIONS OF NEURONS AND GLIA.....	5R01 NS12253-03	81,659
OSTROW, J DONALD.....	ALTERNATE PATHWAYS OF BILIRUBIN METABOLISM.....	5R01 AM14543-06	28,227
PATTERSON, DONALD F.....	HEREDITARY DEFECTS IN CARDIOVASCULAR DEVELOPMENT.....	5R01 HL10995-09	90,153
PATTERSON, DONALD F.....	HEREDITARY DEFECTS IN CARDIOVASCULAR DEVELOPMENT.....	5R01 HL10995-10	97,049
PATTERSON, DONALD F.....	ETIOLOGY AND DEVELOPMENT OF CONGENITAL HEART DISEASE.....	1R01 HL18848-01	113,874
PIDDINGTON, RONALD L.....	THE ROLE OF GLUTAMINE SYNTHETASE IN NEUROGENESIS.....	5R01 HD05558-05	12,640
PIZER, LEWIS I.....	CONTROL MECHANISMS IN PRO- AND EUKARYOTIC CELLS.....	5R01 A03957-16	64,205
POLLACK, SOLOMON R.....	INTERNATIONAL BIOMATERIALS CONFERENCE 1976.....	1R13 DE04446-01	7,300
PRING, MARTIN.....	MEDICAL SCHOOL COMPUTER FACILITY.....	2P41 RR00015-14	301,506
REED, GEORGE H.....	NMR STUDIES OF PHOSPHOLIPASE A2—MICELLAR SYSTEMS.....	5R01 AM17517-03	30,591
REVICH, MARTIN.....	CBF AND METABOLISM IN STROKE AND SHOCK.....	5P50 NS10939-04	598,905
ROSAN, BURTON.....	MICROBIOLOGIC STUDIES OF THE HUMAN ORAL STREPTOCOCCI.....	5R01 DE03180-06	78,544



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Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
ROSENBERG, CHARLES E.....	HISTORY OF MEDICAL CARE IN AMERICA, 1790-1914.....	1R01 LM02826-01	13,374
RUTMAN, ROBERT J.....	MECHANISM OF ACTION OF ALKYLATING AGENTS.....	5R01 CA05295-16	149,474
SANGER, JOSEPH W.....	FLUORESCENT PROTEIN TRACERS FOR CELL MOTILITY STUDIES.....	5R01 GM22293-02	53,168
SCANDURA, JOSEPH M.....	MECHANISMS OF PROBLEM SOLVING IN CHILDREN.....	5R01 HD09185-02	65,234
SCHAD, GERHARD A.....	ARRESTED DEVELOPMENT OF LARVAL HOOKWORMS IN THE HOST.....	2R01 AI11852-03A1	53,634
SCHMAN, HERMAN P.....	ELECTRICAL & ACOUSTIC PROPERTIES OF BIOLOGIC MATERIAL.....	5R01 HL01253-24	93,723
SCHWARTZMAN, ROBERT M.....	GENETIC TRAITS IN ATOPIC SUBJECTS.....	5R01 AI12295-02	21,825
SHAFFER, THOMAS H.....	PULMONARY PHYSIOLOGY IN LIQUID VENTILATION.....	1R01 HL19402-01	46,753
SHAW, LESLIE M.....	ANALOGUE AND INHIBITOR STUDIES IN CLINICAL ENZYMOLOGY.....	5R01 GM17522-07	5,756
SILBERBERG, DONALD H.....	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS.....	5P50 NS11037-03	300,738
SILBERBERG, DONALD H.....	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS.....	2P50 NS11037-04	366,381
SILVERS, WILLYS K.....	THE LYMPHOCYTE AND CELLULAR IMMUNITY.....	5R01 CA18640-07	85,153
SINGER, IRWIN.....	RENAL ION TRANSPORT: FIXED-CHARGE MEMBRANE MODEL.....	5R01 AM17344-06	77,321
SMITH, AMOS B, III.....	METHYLENOMYCINS A AND B: POTENTIAL ANTITUMOR AGENTS.....	1R01 CA19033-01	46,851
SNYDER, PETER J.....	CONTROL OF FSH AND LH SECRETION IN MAN.....	5R01 HD08555-02	59,094
SOLOMON, GENE B.....	FORMATION OF GRANULOMATA BY A PARASITE.....	5R01 AI10898-05	42,345
SOLOWAY, ROGER D.....	SICKLE CELL DISEASE: GALLSTONES AND LIVER DYSFUNCTION.....	5R01 AM16549-03	89,071
SOMLYO, ANDREW P.....	STUDY OF MUSCLES RELATED TO HEART DISEASE.....	5P01 HL15835-03	1,021,745
SOMLYO, ANDREW P.....	STUDY OF MUSCLES RELATED TO HEART DISEASE.....	5P01 HL15835-04	1,066,633
SOULSBY, ERNEST J.....	HELMINTH IMMUNITY: IN VITRO AND IN VIVO CORRELATES.....	2R01 AI06262-12	87,109
SPEAR, JOSEPH F.....	ELECTROPHYSIOLOGY OF CARDIAC AUTOMATICITY.....	1R01 HL19045-01	45,566
SPRAGUE, JAMES M.....	VISUAL BEHAVIOR—ANATOMICAL AND FUNCTIONAL BASIS.....	3R01 EY00577-10S1	14,887
SPRAGUE, JAMES M.....	BRAIN MECHANISMS OF VISUAL LEARNING AND TRANSFER.....	2R01 EY00577-11	66,394
STEIN, THOMAS P.....	NITROGEN POOLS AND TURNOVER IN SURGICAL PATIENTS.....	5R01 AM16658-03	50,266
STEIN, THOMAS P.....	SURGERY AND ADJUVANT CANCER THERAPY.....	1R01 CA18575-01	76,630
STERLING, PETER.....	ANATOMY AND PHYSIOLOGY OF VISUOMOTOR SYSTEMS.....	5R01 EY00828-05	61,695
SUYAMA, YOSHITAKA.....	MULTIPLE ISOACCEPTING FORMS OF MITOCHONDRIAL TRNA.....	5R01 GM21386-03	36,033
TAICHMAN, NORTON S.....	LEUKOCYTES IN THE PATHOGENESIS OF PERIODONTAL DISEASE.....	5R01 DE03995-02	108,128
THORNTON, EDWARD R.....	GLYCOSPHINGOLIPID CHEMISTRY AND MEMBRANE STRUCTURE.....	1R01 GM22647-01	59,734
TSOU, KWAN C.....	CYTOCHEMICAL SUBSTRATES RELATED TO CANCER CHEMOTHERAPY.....	3R01 CA07339-11S1	75,357
UTIGER, ROBERT D.....	THYROID-STIMULATING HORMONES IN PLASMA.....	5R01 AM14039-08	65,865
VAN DE WALLE, ETIENNE.....	FERTILITY DECLINE IN A BELGIAN VILLAGE, 1846-1880.....	5R01 HD08760-02	35,522
VANDERKOOI, JANE M.....	OXYGEN DIFFUSION IN BIOLOGICAL MEMBRANES.....	5R01 GM21699-02	20,550
VOET, DONALD H.....	THE X-RAY STRUCTURE OF PYROPHOSPHATASE.....	5R01 GM20568-02	42,327
WALLACE, HERBERT W.....	SURGERY WITH ASSISTED AND TOTAL BYPASS: BLOOD CHANGES.....	5R01 HL15183-03	61,242
WALLACE, HERBERT W.....	LIQUID MEMBRANE BLOOD OXYGENATION.....	5R01 HL16595-02	151,563
WALLACE, HERBERT W.....	SURGERY AND PULMONARY TISSUE ALTERATIONS.....	5R01 HL18143-02	61,053
WAYLAND, BRADFORD B.....	DEVELOPMENT OF HEME MODEL COMPLEXES FOR STUDYING PROTEIN.....	5R01 AM17533-02	59,025
WEBER, ANNEMARIE A.....	FORCE AND SPEED IN SKELETAL AND CARDIAC MUSCLE.....	2R01 HL15692-04	84,870
WEBER, ANNEMARIE A.....	FORCE AND SPEED IN SKELETAL AND CARDIAC MUSCLE.....	5R01 HL15692-05	83,155
WEBER, KARL T.....	HEMODYNAMICS OF MYOCARDIAL OXYGEN CONSUMPTION.....	5R01 HL17441-02	48,941
WEBER, KARL T.....	HEMODYNAMICS OF MYOCARDIAL OXYGEN CONSUMPTION.....	5R01 HL17441-03	39,171
WEBER, KARL T.....	VENTRICULAR MECHANICS IN THE OVERLOADED HEART.....	1R01 HL18749-01	39,713
WEBER, WILFRIED T.....	LYMPHOCYTE FUNCTIONAL CAPACITIES.....	5R01 AM11693-09	30,988
WEISS, LEON P.....	ELECTRON MICROSCOPY OF THE RETICULOENDOTHELIAL SYSTEM.....	7R01 AM19920-01	120,231
WHITAKER, LINTON A.....	EXPERIMENTAL BASES FOR CRANIOFACIAL DYSJUNCTION.....	1R01 DE04110-01A1	91,567
WILLIAMSON, JOHN R.....	CONTROL OF METABOLISM IN NORMAL AND DISEASED STATES.....	2R01 AM15120-06	86,176
WILLIAMSON, JOHN R.....	CARDIAC METABOLISM IN HEART FAILURE.....	5R01 HL14461-05	109,664
WILLIAMSON, JOHN R.....	CARDIAC METABOLISM IN HEART FAILURE.....	5R01 HL14461-06	134,603
WILSON, DARCY B.....	IMMUNOLOGIC ASPECTS OF AGING AND NEOPLASIA.....	5R01 AI10961-04	63,632
WILSON, DARCY B.....	IMMUNOLOGIC ASPECTS OF AGING AND NEOPLASIA.....	5R01 AI10961-05	70,346
WILSON, DARCY B.....	IMMUNOBIOLOGY OF NORMAL AND NEOPLASTIC LYMPHOCYTES.....	5P01 CA15822-03	822,679
WILSON, DAVID F.....	OXIDATIVE PHOSPHORYLATION IN BIOLOGICAL MEMBRANES.....	2P01 GM12202-13	426,145
WILSON, DAVID F.....	OXYGEN DEPENDENCE OF MITOCHONDRIAL FUNCTION.....	5R01 GM21524-02	56,611
WINEGRAD, ALBERT I.....	STUDIES RELATED TO THE COMPLICATIONS OF DIABETES.....	2R01 AM04722-16	168,632
WINEGRAD, SAUL.....	CELLULAR BASIS OF CARDIAC CONTRACTILITY.....	5R01 HL16010-14	50,014
WINEGRAD, SAUL.....	INTERCELLULAR FACTORS IN FUNCTION OF CARDIAC CELLS.....	1R01 HL18900-01	46,907
WOLF, DON P.....	THE ROLE OF CORTICAL GRANULES IN FERTILIZATION.....	5R01 HD07635-02	69,887
WOLLMAN, HARRY.....	CENTER FOR RESEARCH IN ANESTHESIA.....	5P50 GM15430-09	786,623
YONETANI, TAKASHI.....	STRUCTURE AND FUNCTION OF RESPIRATORY HEMOPROTEINS.....	5R01 HL14508-08	112,278

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
ORGANIZATION TOTAL	263	32,847,734	
<b>WILLS EYE HOSPITAL</b>	<b>ZIP CODE 19130</b>		
BARBER, G WINSTON	LENS METABOLISM AND EXPERIMENTAL CATARACT	5R01 EY00225-15	73,337
FEDERMAN, JAY L	TUMOR-ASSOCIATED ANTIBODIES AGAINST OCULAR MELANOMAS	5R01 EY01467-02	28,312
PELTZ, RICHARD	CATARACT AND LENS DETERIORATION DUE TO MATURATION	5R01 EY00555-06	48,701
SERY, THEODORE W.	RESPONSE OF CORNEAL STROMA TO INJECTIONS OF PROTEINS	3R01 EY00195-18S1	12,469
SERY, THEODORE W.	RESPONSE OF CORNEAL STROMA TO INJECTIONS OF PROTEINS	2R01 EY00195-19	64,905
SERY, THEODORE W.	EXPERIMENTAL HERPES VIRUS CORNEAL INFECTIONS	5R01 EY01454-02	65,287
SERY, THEODORE W.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05510-13	41,360
SPAETH, GEORGE L	THE PATHOGENESIS OF VISUAL LOSS IN GLAUCOMA	5R01 EY00677-05	78,151
ORGANIZATION TOTAL	8	412,522	
<b>WISTAR INSTITUTE OF ANATOMY AND BIOLOGY</b>	<b>ZIP CODE 19104</b>		
BAIRD, WILLIAM M	MODIFIERS OF CHEMICAL CARCINOGENESIS IN CELL CULTURE	1R01 CA19948-01	47,072
BORUN, THADDEUS W	REGULATION OF HISTONE BIOSYNTHESIS IN HETEROPOLOID CELLS	1R01 CA17856-01	222,142
BUCK, CLAYTON A	MEMBRANE CHANGES CAUSED BY TUMOR VIRUS TRANSFORMATION	7R01 CA19144-01	82,043
BUCK, CLAYTON A	MEMBRANE CHANGES CAUSED BY TUMOR VIRUS TRANSFORMATION	5R01 CA19144-02	66,844
CRISTOFALO, VINCENT J	CELLULAR SENESECE AND CONTROL OF CELL PROLIFERATION	5P01 AG00378-05	555,233
CROCE, CARLO M	MAPPING OF TUMOR VIRUS GENOMES IN TRANSFORMED CELLS	5R01 CA16685-02	194,102
CROCE, CARLO M	ENZYME MARKERS IN THE MAPPING OF HUMAN GENES	5R01 GM20700-02	44,737
DIAMOND, LEILA	THE EFFECT OF CHEMICAL CARCINOGENS ON CELLS IN VITRO	3R01 CA08936-09S1	15,140
GOTZE, DIETRICH	CELLULAR ANTIGENS OF NORMAL AND MALIGNANT RAT TISSUES	5R01 CA10097-09	84,049
HALPERN, MICHAEL S	VIRAL PROTEIN IN AVIAN SARCOMA VIRUS-INFECTED CELLS	5R01 CA16047-03	51,656
KNOWLES, BARBARA B	ANTIGENICITY AND TUMORIGENICITY OF SOMATIC CELL HYBRIDS	1R01 CA18470-01	71,555
KOPROWSKI, HILARY	STUDY OF RABIES AND RABIES VIRUS ANTIGENS	2R22 AI09706-06	344,408
KOPROWSKI, HILARY	CONSOLIDATED BASIC CANCER RESEARCH PROGRAM	5P01 CA10815-08	1,880,919
KOPROWSKI, HILARY	CONSOLIDATED BASIC CANCER RESEARCH PROGRAM	5P01 CA10815-09	1,947,271
KOPROWSKI, HILARY	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS	5P50 NS11036-03	661,650
KOPROWSKI, HILARY	ETIOLOGY AND PATHOGENESIS OF MULTIPLE SCLEROSIS	2P50 NS11036-04	920,455
KOPROWSKI, HILARY	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05540-14	163,322
KRITCHEVSKY, DAVID	DIETARY EFFECTS ON CHOLESTEROL METABOLISM	5R01 HL03299-19	62,602
KRITCHEVSKY, DAVID	LIPID METABOLISM	5R01 HL05209-16	106,666
MANSON, LIONEL A	ROLE OF TRANSPLANTATION ANTIGENS IN MALIGNANT CELLS	5R01 CA07973-11	102,242
MAIL, GERD G	QUANTITATIVE STUDY OF NUCLEAR & ANNULATE LAMELLAE PORES	9R01 GM21615-02A2	36,542
PINCUS, THEODORE P	HUMAN SEROLOGICAL ACTIVITY WITH TYPE-C VIRUS PROTEINS	7R01 CA21658-01	73,377
ROTHBLAT, GEORGE H	STEROL METABOLISM IN TISSUE CULTURE CELLS	5R01 HL09103-12	154,340
ROVERA, GIOVANNI	REGULATORY MECHANISMS OF ERYTHROID DIFFERENTIATION	1R01 CA19454-01	32,138
SOLTER, DAVOR	BIOLOGY OF EXPERIMENTAL TERATOCARCINOMAS	5R01 CA17546-02	81,915
WARREN, LEONARD	THE SURFACE MEMBRANES OF NORMAL AND CANCER CELLS	7R01 CA19130-01	197,025
WARREN, LEONARD	THE SURFACE MEMBRANES OF NORMAL AND CANCER CELLS	5R01 CA19130-02	177,800
WEINMANN, ROBERTO	FUNCTION, REGULATION OF ADENOVIRUS CODED SMALL RNAS	1R01 AI13231-01	66,622
WHITTAKER, J RICHARD	EGG CYTOPLASMIC INFORMATION IN CELL DIFFERENTIATION	5R01 HD09201-02	71,323
ORGANIZATION TOTAL	29	8,515,190	
<b>ZOOLOGICAL SOCIETY OF PHILADELPHIA</b>	<b>ZIP CODE 19104</b>		
SNYDER, ROBERT L	ARTERIOSCLEROSIS IN ZOO ANIMALS ON CONTROLLED DIETS	5R01 HL01979-20	51,081
ORGANIZATION TOTAL	1	51,081	
<b>PITTSBURGH</b>			
<b>ALLEGHENY GENERAL HOSPITAL</b>	<b>ZIP CODE 15212</b>		
ACEVEDO, HERNAN F	NONESTERIFIED CHOLESTEROL, INDEX OF GENITAL CARCINOMA	5R01 CA12092-05	25,034
CONCANNON, JOSEPH P	CLINICAL RADIATION THERAPY RESEARCH CENTER	2P01 CA10438-10	475,883
CONCANNON, JOSEPH P	EXPLORATORY STUDIES IN CANCER RESEARCH	5P20 CA16248-02	79,839
CONCANNON, JOSEPH P	RADIATION THERAPY ONCOLOGY GROUP	1R10 CA17722-01A1	44,887
LESHER, SAMUEL W	COLORRECTAL CANCER: CELL KINETICS AND TREATMENT	1R26 CA20062-01	59,557
PUSCHETT, JULES B	STUDY OF ANIONIC TRANSPORT IN PROXIMAL TUBULE	5R01 AM17575-03	45,498
ROSENTHAL, ARTHUR	CHARACTERIZE HUMAN CHOLESTEROL BINDING PROTEIN	5R01 HL18203-02	17,632

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
SCHENKEN, LARRY L.....	COMBINED MODE (ECMRC) STUDIES IN VIVO: TUMOR/NORMAL.....	1R01 CA20328-01	143,576
SCHIFFER, LEWIS M.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05709-07	59,756
ORGANIZATION TOTAL	9 951,662		
<b>CARNEGIE-MELLON UNIVERSITY ZIP CODE 15213</b>			
BOTHNER-BY, AKSEL A.....	NUCLEAR OVERHAUSER EFFECT IN BIOMOLECULAR COMPLEXES.....	2R01 AM16532-04	76,942
CUSSLER, EDWARD L, JR.....	RATE PROCESSES INVOLVING BILE.....	2R01 AM16143-04	73,650
DETWILER, JOHN S.....	EVALUATION OF VARIABILITY IN THE PERINATAL HEART RATE.....	5R01 HD09084-02	35,756
ELIJSON, JOHN R.....	STRUCTURE AND FUNCTION OF HETEROCHROMATIN.....	2R01 GM20922-03	44,872
GOLDMAN, ROBERT D.....	NORMAL AND TUMOR-VIRUS TRANSFORMED CELL BEHAVIOR.....	5R01 CA17210-02	89,488
HARTSHORNE, DAVID J.....	BIOCHEMISTRY OF CONTRACTILE PROTEINS.....	5R01 HL09544-11	93,850
JONES, ELIZABETH W.....	GENETIC REGULATION OF TETRAHYDROFOLATE METABOLISM.....	5R01 AM18090-03	47,237
MAYFIELD, JOHN E.....	THE MOLECULAR ORGANIZATION OF EUKARYOTIC CHROMOSOMES.....	5R01 GM21271-03	34,398
NAGLE, JOHN F.....	BIOMEMBRANE TRANSITIONS: DENSITY MEASUREMENTS.....	5R01 GM21128-02	31,145
POWERS, GARY J.....	COMPUTER-AIDED PLANNING OF OPTIMAL DNA SYNTHESIS.....	5R01 GM22041-02	64,108
REICHERT, THOMAS A.....	A QUANTITATIVE STUDY OF GENETIC INFORMATION TRANSFER.....	5R01 GM18712-04	35,804
REICHERT, THOMAS A.....	AN OPTIMAL FETAL HEART MONITOR.....	3R01 HL16506-01S1	3,500
RICE, ROBERT V.....	BIOPHYSICAL STUDIES ON FIBROUS PROTEINS.....	5R01 AM02809-18	97,192
SCHATZ, EDWARD R.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07081-11	73,240
SCHULZ, RICHARD.....	INSTITUTIONAL ADAPTATION OF THE AGED.....	1R01 AG00525-01	44,081
SLESINSKI, RONALD S.....	MUTATION AND HYBRIDIZATION OF HUMAN LYMPHOBLAST CELLS.....	1R01 CA21030-01	43,830
WORTHINGTON, C R.....	MOLECULAR STRUCTURE OF SARCOPLASMIC RETICULUM.....	5R01 GM20804-03	18,109
WORTHINGTON, C R.....	MOLECULAR STRUCTURE OF NERVE AND PHOTORECEPTORS.....	5R01 NS09329-06	71,684
WORTHINGTON, C R.....	MOLECULAR STRUCTURE OF NERVE AND PHOTORECEPTORS.....	2R01 NS09329-07	85,082
ORGANIZATION TOTAL	19 1,063,968		
<b>CHILDREN'S HOSPITAL OF PITTSBURGH ZIP CODE 15213</b>			
ALBO, VINCENT C.....	CHILDREN'S CANCER STUDY GROUP.....	5R10 CA07439-13	84,786
FETTERMAN, GEORGE H.....	A STUDY OF IMMATURE KIDNEYS BY MICRODISSECTION.....	5R01 HD00659-17	34,422
FIREMAN, PHILIP.....	MECHANISMS OF HYPERSENSITIVITY.....	5R01 HD02662-09	33,979
FIREMAN, PHILIP.....	DEVELOPMENT OF IMMEDIATE HYPERSENSITIVITY.....	5R01 HD07850-03	22,196
GITLIN, DAVID.....	THE MATERNOFETAL BARRIER AND FETAL METABOLISM.....	5R01 HD01031-12	6,352
GITLIN, DAVID.....	THE MATERNOFETAL BARRIER AND FETAL METABOLISM.....	5R01 HD01031-13	6,125
OLIVER, THOMAS K, JR.....	GENERAL CLINICAL RESEARCH CENTER (CHILDREN'S).....	5M01 RR00084-14	393,148
OLIVER, THOMAS K, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05507-14	58,919
PARADISE, JACK L.....	INDICATIONS FOR TONSILLECTOMY AND ADENOIDECTOMY.....	2R01 HD07403-04	180,674
STEELE, MARK W.....	GENETICS OF X-CHROMOSOMES AND MALIGNANT HYBRIDIZATION.....	5R01 CA12113-06	51,404
ORGANIZATION TOTAL	10 872,005		
<b>DUQUESNE UNIVERSITY ZIP CODE 15219</b>			
CASTRIC, PETER A.....	PURIFICATION AND CHARACTERIZATION OF UREA AMIDOLYASE.....	5R01 GM20419-02	23,460
GAWRON, OSCAR.....	CHEMISTRY OF KREBS' CYCLE ENZYMES.....	5R01 GM06245-17	43,675
ORGANIZATION TOTAL	2 67,135		
<b>EYE AND EAR HOSPITAL OF PITTSBURGH ZIP CODE 15213</b>			
BROWN, STUART I.....	PRECORNEAL TEAR FILM.....	2R01 EY01489-02	85,598
BROWN, STUART I.....	COLLAGENOLYTIC SYSTEMS IN NORMAL AND DISEASED CORNEAS.....	5R01 EY01490-03	41,113
BROWN, STUART I.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR05779-01	24,611
CHURCH, ROBERT L.....	SOMATIC CELL GENETICS OF CONNECTIVE TISSUE PROTEINS.....	1R01 HD09727-01	69,565
CHURCH, ROBERT L.....	SOMATIC CELL GENETICS OF CONNECTIVE TISSUE PROTEINS.....	5R01 HD09727-02	72,522
DUNN, ROBERT F.....	ULTRASTRUCTURAL STUDIES ON VESTIBULAR NEURAL PATHWAYS.....	7R01 NS13518-01	13,211
HOPKINSON, NORMA T.....	OTOADMITTANCE SCREENING ON PRESCHOOL CHILDREN.....	5R01 NS12210-02	25,932
MYERS, EUGENE N.....	HISTOPATHOLOGY OF THE TEMPORAL BONES OF CHILDREN.....	5R01 NS12748-02	23,061
O'LEARY, DENNIS P.....	STUDY OF THE SEMICIRCULAR CANAL AFFERENT RESPONSES.....	5R01 NS12494-02	43,260
ORGANIZATION TOTAL	9 398,873		
<b>MAGEE-WOMEN'S HOSPITAL ZIP CODE 15213</b>			
HAYASHI, T TERRY.....	PLACENTAL AND FETAL RNA METABOLISM.....	5R01 HD04072-08	33,702
ORGANIZATION TOTAL	1 33,702		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
<b>MERCY HOSPITAL OF PITTSBURGH</b>	<b>ZIP CODE 15219</b>		
KATHO, ARTHUR K.....	ULTRASTRUCTURAL IMMUNOCHEMISTRY OF LENS CRYSTALLINS.....	5R01 EY00908-02	18,117
ORGANIZATION TOTAL	1 18,117		
<b>MONTEFIORE HOSPITAL</b>	<b>ZIP CODE 15213</b>		
ADIBI, SIAMAK A.....	BRANCHED AMINO ACID METABOLISM IN ALTERED NUTRITION.....	2R01 AM15855-04A1	72,042
ADIBI, SIAMAK A.....	INTESTINAL TRANSPORT AND METABOLISM OF PEPTIDES.....	5R01 AM15861-05	85,247
ADLER, SHELDON.....	RELATION OF POTASSIUM, METABOLISM, HORMONES TO CELL PH.....	5R01 AM17793-06	26,989
CAVALLO, TITO.....	GLOMERULAR PERMEABILITY STUDIES IN GLOMERULONEPHRITIS.....	5R01 AM18457-02	46,422
MENDELOW, HARVEY.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05592-06	30,180
NORDEN, CARL W.....	HEMOPHILUS INFLUENZAE TYPE B INFECTIONS.....	5R01 AI11932-03	20,978
SHADDUCK, RICHARD K.....	REGULATION OF GRANULOPOIESIS.....	5R01 CA15237-02	57,075
VAGNUCCI, ANTHONY H.....	MECHANISM OF RENAL CIRCADIAN CYCLES.....	5R01 HL12707-06	52,776
WINKELSTEIN, ALAN.....	IMMUNOSUPPRESSANTS AND LYMPHOCYTE FUNCTION.....	5R01 AI11739-02	37,320
WOLFSON, SIDNEY K, JR.....	BIOAUTOFUEL CELL: IMPLANTABLE DIRECT ENERGY CONVERTER.....	5R01 GM19419-05	68,237
ORGANIZATION TOTAL	10 497,266		
<b>MPC CORPORATION</b>	<b>ZIP CODE 15213</b>		
BOTHNER-BY, AKSEL A.....	NMR FACILITY FOR BIOMEDICAL STUDIES.....	2P41 RR00292-11	139,045
ORGANIZATION TOTAL	1 139,045		
<b>PITTSBURGH CHILD GUIDANCE CENTER</b>	<b>ZIP CODE 15213</b>		
SCHACHTER, JOSEPH.....	HYPERTENSION PRECURSORS: CHARACTERISTICS AT BIRTH.....	5R01 HL17436-02	59,072
ORGANIZATION TOTAL	1 59,072		
<b>UNIVERSITY OF PITTSBURGH</b>	<b>ZIP CODE 15260</b>		
ABOLA, JAIME E.....	X-RAY STRUCTURAL ANALYSIS OF TRANSFERRIN.....	1R01 GM23195-01	73,525
ABRAMS, RICHARD.....	MASS SPECTROMETRIC FACILITY FOR BIOMEDICAL RESEARCH.....	5P41 RR00273-11	85,730
ALARIE, YVES C.....	RESPIRATORY TRACT IRRITANTS: DESENSITIZATION.....	5R01 ES00872-03	29,436
ANDERSON, GARTH R.....	SPECIFIC CELLULAR SEQUENCES IN SARCOMA VIRUS GENOMES.....	1R01 CA19488-01	59,108
ANDERSON, JULIUS H, JR.....	HEPATIC UPTAKE OF PROPRANOLOL-DRUG INTERACTIONS.....	1R01 HL18609-01	22,871
ARNETT, EDWARD M.....	AN ABSOLUTE METHOD FOR THE STUDY OF INTERMOLECULAR FORCE.....	1R01 GM23086-01	53,856
AXELROD, ABE E.....	ROLE OF PANTOTHENIC ACID IN PROTEIN METABOLISM.....	5R01 HD08549-02	35,601
AXELROD, ABE E.....	ROLE OF PANTOTHENIC ACID IN PROTEIN METABOLISM.....	5R01 HD08549-03	37,894
BASFORD, ROBERT E.....	MITOCHONDRIAL PHOSPHATE CARRIER.....	5R01 GM21256-03	27,069
BASFORD, ROBERT E.....	REGULATION OF GLYCOLYSIS IN BRAIN.....	5R01 NS11773-03	45,441
BENNETT, MARVIN H.....	OLFACTORY DISCRIMINATION.....	5R01 NS10140-05	17,095
BENTLEY, RONALD.....	BIOCHEMICAL C-METHYLATION OF AROMATIC COMPOUNDS.....	5R01 GM20053-12	60,489
BILGER, ROBERT C.....	UNDERLYING CONSTRUCTS IN AUDITORY FUNCTION.....	5R01 NS04105-13	75,568
BLAINE, EDWARD H.....	RELATION OF RENAL ENDOCRINE FUNCTION TO HYPERTENSION.....	5R01 HL16483-03	37,741
BLAINE, EDWARD H.....	ANGIOTENSIN, HYPERTENSION AND THE CNS.....	1R01 HL19361-01	78,631
BOGGS, DANE R.....	KINETICS AND CONTROL OF NEUTROPHILIC GRANULOCYTES.....	5R01 AM14352-08	109,835
BOGGS, DANE R.....	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE.....	5P60 HL15165-05	397,804
BOGGS, DANE R.....	HEMATOPOIETIC CHIMERISM.....	1R01 HL19333-01	81,054
BOGGS, SALLIE S.....	FACTORS INFLUENCING LEUKEMIC TRANSFORMATION IN VIVO.....	5R01 CA16227-02	54,237
BORLE, ANDRE B.....	CELLULAR CONTROL OF CALCIUM METABOLISM.....	5R01 AM07867-13	79,800
BORLE, ANDRE B.....	CELLULAR CONTROL OF CALCIUM METABOLISM.....	5R01 AM07867-14	87,458
BYRNE, JOHN H.....	ANALYSIS OF THE NEURAL CONTROL OF BEHAVIOR.....	1R01 NS13511-01	58,311
CAMPBELL, IAIN M.....	NAPHTHOQUINONE METABOLISM IN PLANTS AND BACTERIA.....	5R01 AI11819-03	41,141
CAUNA, NIKOLAJS.....	FINE STRUCTURE AND CHEMISTRY OF NERVE ENDINGS.....	5R01 NS04147-14	32,248
CHAY, TERESA R.....	PROPERTIES OF HUMAN HEMOGLOBINS AND UNWINDING OF DNA.....	5R01 GM20569-03	18,151
CHEVRENICK, PAUL A.....	GROWTH AND MATURATION OF HEMATOPOIETIC STEM CELLS.....	5R01 CA14278-03	60,354
CHIU, TEH-HSING.....	LIPOTEICHOIC ACIDS—METABOLISM AND ROLE IN DENTISTRY.....	5R01 DE04225-02	24,855
CHUNG, ALBERT E.....	REGULATION OF COENZYME LEVELS IN BIOLOGICAL SYSTEMS.....	5R01 AM12104-09	40,907
CHUNG, ALBERT E.....	ISOCITRATE DEHYDROGENASE: CONTROL, STRUCTURE, ACTIVITY.....	5R01 GM19948-06	49,947
COFFEE, CAROLE J.....	STRUCTURE AND FUNCTION OF MUSCLE REGULATORY PROTEINS.....	2R01 AM16728-04	56,245
COHEN, THEODORE.....	THE BIOGENESIS OF CYCLOPROPANE RINGS.....	5R01 GM20707-03	37,713
COHEN, THEODORE.....	SYNTHETIC METHODS USING NEW COPPER-SULFUR TECHNOLOGY.....	1R01 GM22760-01	61,121
COLAVITA, FRANCIS B.....	NONAUDITORY FUNCTIONS OF AUDITORY CORTEX.....	5R01 NS09027-06	31,544

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
COOPER, TERRANCE G.	SYNTHESIS AND ASSEMBLY OF ENZYMES IN EUKARYOTES.....	5R01 GM19386-05	26,682
COOPER, TERRANCE G.	GENETICS AND ISOLATION OF A EUKARYOTIC CONTROL PROTEIN.....	5R01 GM20693-03	25,974
CORDER, CLINTON N.	KIDNEY ATPASE: ACTIVITY CONVERSION.....	1R01 AM18857-01	20,563
CRAVEN, BRYAN M.	CRYSTAL STRUCTURAL STUDIES OF HUMAN SERUM ALBUMIN.....	2R01 GM21164-03	55,205
CRAVEN, BRYAN M.	MOLECULES OF BARBITURATES IN CRYSTAL STRUCTURE.....	9R01 GM22548-15A1	49,488
CURTHOYS, NORMAN P.	CHARACTERIZATION OF RAT KIDNEY GLUTAMINASE ISOENZYMES.....	2R01 AM16651-04	50,065
CYPRESS, RAYMOND H.	IMMUNITY TO A PARASITIC NEMATODE.....	5R01 AI10490-05	42,445
DANISHEFSKY, SAMUEL J.	SYNTHESIS OF ANTITUMOR NATURAL PRODUCTS.....	5R01 CA12107-12	121,149
DANISHEFSKY, SAMUEL J.	SYNTHESIS OF ANTITUMOR NATURAL PRODUCTS.....	5R01 CA12107-13	118,798
DE GROAT, WILLIAM C.	NERVOUS CONTROL OF URINARY BLADDER AND LARGE BOWEL.....	2R01 NS07923-09	58,270
DOWD, PAUL.....	MODEL STUDIES OF VITAMIN B12.....	3R01 GM19906-01S2	20,326
DOWD, PAUL.....	MODEL STUDIES OF VITAMIN B12.....	5R01 GM19906-02	56,217
EDMONDS, MARY P.	BIOGENESIS OF MESSENGER RNA IN ANIMAL CELLS.....	1R01 CA18065-01	106,827
ERTEL, ROBERT J.	MYOCARDIAL CELLS: AUTONOMIC AND RHYTHMIC MECHANISMS.....	3R01 HL14832-03S1	2,210
ERTEL, ROBERT J.	MYOCARDIAL CELLS: AUTONOMIC AND RHYTHMIC MECHANISMS.....	2R01 HL14832-04	33,411
FEINGOLD, DAVID S.	STUDIES ON UDP GLUCOSE DEHYDROGENASE.....	5R01 AM15332-05	42,805
FEINGOLD, DAVID S.	5-EPIMERIZATION IN MUROPOLYSACCHARIDE SYNTHESIS.....	5R01 AM18160-02	57,452
FIELD, JAMES B.	EFFECTS OF TSH ON THYROID CARBOHYDRATE METABOLISM.....	5R01 AM06865-14	109,722
FIELD, JAMES B.	FACTORS INVOLVED IN INSULIN HOMEOSTASIS.....	2R01 AM12974-07	45,654
FIELD, JAMES B.	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00056-15	355,603
FISHER, BERNARD.....	BIOLOGICAL EFFECTS OF AUXILIARY LIVER TRANSPLANTS.....	5R01 AM13228-08	60,227
FISHER, BERNARD.....	PRIMARY BREAST CANCER THERAPY GROUP (NSABP).....	5R10 CA12027-05	333,686
FISHER, BERNARD.....	PRIMARY BREAST CANCER THERAPY GROUP (NSABP).....	5R10 CA12028-05	47,856
FISHER, BERNARD.....	SURGICAL MANAGEMENT OF THE REGIONAL LYMPH NODE IN CANCER.....	5R01 CA12102-06	52,161
FISHER, BERNARD.....	ROLE OF REGIONAL LYMPH NODES IN CANCER SURGERY.....	5R01 CA13289-04	80,897
FISHER, BERNARD.....	ROLE OF REGIONAL LYMPH NODES IN CANCER SURGERY.....	5R01 CA13289-05	86,530
FISHER, BERNARD.....	STUDY OF EFFECT OF REMOVAL OF PRIMARY TUMORS.....	5R01 CA14972-03	71,907
FISHER, BERNARD.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	1R10 CA18653-01	66,678
FLETCHER, RONALD D.	ADHESIVE STRENGTH BETWEEN CELLS AND INANIMATE MATERIALS.....	5R01 DE03983-02	45,501
FORREST, EDWARD J.	INTERDISCIPLINARY STUDIES IN CLEFT PALATE.....	5P01 DE01697-14	160,449
FORREST, EDWARD J.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05338-15	29,110
FRANZEN, JAMES S.	LIGAND BINDING TO ALLOSTERIC ENZYMES.....	5R01 GM19649-03	34,860
FRIED, VICTOR A.	BIOGENESIS AND ASSEMBLY OF THE LAC PERMEASE OF E. COLI.....	1R01 GM23288-01	38,898
FRIZZELL, RAYMOND A.	ION TRANSPORT BY MAMMALIAN COLON, IN VITRO.....	5R01 AM18199-02	18,960
FUCHS, FRANKLIN.....	ANALYSIS OF CELLULAR CALCIUM COMPARTMENTS IN MUSCLE.....	5R01 AM10551-11	32,828
GAIK, GERALDINE C.	QUAIL CELL GRAFTS AND THE CHICK TRIGEMINAL GANGLION.....	5R23 DE04135-02	5,000
GILBERTSON, JOHN R.	BIOCHEMISTRY OF LIPIDS IN GROWING NORMAL TISSUES.....	5R01 AM16837-03	24,697
GILBERTSON, JOHN R.	LIPID ROLE IN CARCINOGENESIS AND NORMAL TISSUE.....	5R01 CA14914-03	29,956
GILBERTSON, JOHN R.	STUDIES ON THE LIPIDS OF SALIVARY GLANDS.....	3R01 DE03774-01S1	2,919
GILL, THOMAS J. III.....	CHEMICAL GENETIC AND CELLULAR ASPECTS OF IMMUNOGENICITY.....	5R01 CA18659-06	63,170
GILL, THOMAS J. III.....	MATERNAL-FETAL INTERACTIONS AND THE IMMUNE RESPONSE.....	5R01 HD08662-02	87,909
GILL, THOMAS J. III.....	MATERNAL-FETAL INTERACTIONS AND THE IMMUNE RESPONSE.....	5R01 HD08662-03	94,449
GILL, THOMAS J. III.....	IMMUNOLOGICAL ASPECTS OF PREGNANCY IN HUMANS.....	1R01 HD09880-01	124,031
GLEW, ROBERT H.	GAUCHER'S DISEASE—ENZYMOLGY AND APPROACH TO THERAPY.....	5R01 AM17465-03	27,784
GLEW, ROBERT H.	MITOCHONDRIAL GLYCOPROTEINS—BIOSYNTHESIS AND STRUCTURE.....	5R01 GM19197-05	36,968
GLEW, ROBERT H.	MITOCHONDRIAL GLYCOPROTEINS—BIOSYNTHESIS AND STRUCTURE.....	5R01 GM19197-06	42,437
GOLDSTEIN, E. BRUCE.....	VISUAL ADAPTATION: PERIPHERAL AND CENTRAL MECHANISMS.....	5R01 EY00135-05	38,292
GOLDSTEIN, E. BRUCE.....	VELOCITY PREFERENCE OF NEURONS IN LGN & RETINA.....	1R01 EY01642-01	25,938
GRENVIK, AKE N.	NORMALIZING LOW PACO2 TO IMPROVE TISSUE OXYGENATION.....	5R01 HL17595-02	26,592
GRIECO, PAUL A.	TUMOR INHIBITORS: VERNOLEPIN, ERIOLANGIN, CORIOLIN.....	2R01 CA13689-04	72,406
GRIECO, PAUL A.	TUMOR INHIBITORS: VERNOLEPIN, ERIOLANGIN, CORIOLIN.....	5R01 CA13689-05	75,800
GRIFFIN, HERSCHEL E.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05451-15	30,494
HEATH, EDWARD C.	CHEMISTRY AND METABOLISM OF POLYSACCHARIDES.....	5R01 AM15684-05	130,688
HENDRIX, ROGER W.	ASSEMBLY AND STRUCTURE OF BACTERIOPHAGE LAMBDA HEADS.....	5R01 AI12227-02	31,687
HO, CHIEN.....	NMR STUDIES OF BIOLOGICAL MEMBRANES.....	5R01 GM18698-05	106,480
HO, CHIEN.....	PHYSICAL-CHEMICAL STUDIES OF HEMOGLOBINS.....	5R01 HL10383-10	86,751
HO, MONTO.....	CELL IMMUNITY: NATURAL INHIBITORS OF VIRAL ACTIVITY.....	5R01 AI02953-15	73,837
HO, MONTO.....	CELL IMMUNITY: NATURAL INHIBITORS OF VIRAL ACTIVITY.....	5R01 AI02953-16	80,158
HO, MONTO.....	LATENCY AND REACTIVATION OF CYTOMEGALOVIRUS INFECTION.....	5R01 AI11798-03	33,890
HO, MONTO.....	LATENCY AND REACTIVATION OF CYTOMEGALOVIRUS INFECTION.....	2R01 AI11798-04	83,062

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
HOFFEE, PATRICIA A.....	DR-5-P ALDOLASE: REGULATION AND MECHANISM OF ACTION.....	2R01 AM12152-09	56,831
HOFFMANN, KLAUS H.....	ACTH, ITS RECEPTORS, ANTAGONISTS AND MODE OF ACTION.....	5R01 AM01128-20	195,595
HOFFMANN, KLAUS H.....	HORMONAL CONTROL OF THE ADRENOCORTICAL CELL.....	2R01 AM01128-21	204,658
HOPPER, SARAH P.....	RIBONUCLEOTIDE REDUCTION IN MAMMALIAN CELLS.....	5R01 GM20759-03	32,613
HOWELL, JOHN N.....	SIALIC ACIDS IN MUSCLE MEMBRANE FUNCTION.....	5R01 AM15533-05	29,281
HSU, IN-DING.....	OSCILLATORY PHENOMENA IN CELLULAR DYNAMICS.....	1R01 GM23156-01	6,072
IHLER, GARRET M.....	ENZYME-LOADING OF RED BLOOD CELLS.....	5R01 CA16003-03	50,272
IHLER, GARRET M.....	ROLE OF DNA IN DNA, RNA AND PROTEIN SYNTHESIS.....	5R01 GM20813-03	33,732
IPPEN-IHLER, KARIN A.....	THE GENETICS OF PLASMID TRANSFER AND REPLICATION.....	5R01 AI10768-05	53,132
JACOBSON, LEWIS A.....	REGULATION OF PROTEIN SYNTHESIS IN GROWTH TRANSITIONS.....	5R01 GM20114-03	48,458
JOHNSON, SHARON L.....	NUCLEOPHILIC REACTIONS OF DPN AND ITS ANALOGUES.....	2R01 GM16856-07	65,390
KNAUER, THOMAS E.....	ACYL COENZYME A HYDROLASE(S) OF RAT SALIVARY GLANDS.....	1R23 DE04372-01	15,343
KNOBIL, ERNST.....	STUDIES ON REPRODUCTIVE PHYSIOLOGY IN THE MACAQUE.....	5R01 HD03968-16	129,527
KNOBIL, ERNST.....	CENTER FOR RESEARCH IN PRIMATE REPRODUCTION.....	5P30 HD08610-02	275,144
KULLER, LEWIS H.....	BLOOD PRESSURE OF CHILDREN AND YOUNG ADULTS.....	1R01 HL19864-01	221,451
LAUFFER, MAX A.....	BIOPHYSICAL STUDIES ON VIRAL STRUCTURE AND FUNCTION.....	5P01 GM10403-14	125,755
LAUFFER, MAX A.....	INTERACTIONS OF TOBACCO MOSAIC VIRUS AND ITS COMPONENTS.....	5R01 GM21619-02	73,907
LEE, ROBERT E.....	STRUCTURE AND COMPOSITION OF STORED LIPIDS.....	5R01 AM10809-09	49,486
LESTER, ROGER.....	METABOLISM OF PORPHYRIN, HEME AND BILE PIGMENT.....	5R01 AM17847-02	43,145
LESTER, ROGER.....	METABOLISM OF PORPHYRIN, HEME AND BILE PIGMENT.....	5R01 AM17847-03	37,808
LESTER, ROGER.....	NEONATAL NUTRITION: DEVELOPMENT OF FAT ABSORPTION.....	5R01 HD08954-03	83,691
LEWIS, JESSICA H.....	BLOOD COAGULATION AND HEMORRHAGIC DISEASE.....	3R01 HL02254-20S1	4,411
LEWIS, JESSICA H.....	BLOOD COAGULATION AND HEMORRHAGIC DISEASE.....	2R01 HL02254-21	65,957
LIEBERMAN, IRVING.....	MECHANISMS OF CONTROL OF MAMMALIAN CELL MULTIPLICATION.....	5R01 CA06663-15	94,027
LINEBERRY, CHARLES G.....	SIGNAL DETECTION ANALYSIS OF PAIN PERCEPTION.....	5R01 GM22339-02	34,701
LIU, CHUNG-CHIUN.....	AN IMMOBILIZED ENZYMIC-FUEL CELL GLUCOSE SENSOR.....	1R01 AM19331-01	86,426
LOMBARDI, BENITO.....	PATHOGENESIS OF EXPERIMENTAL FATTY LIVER.....	5R01 AM06334-14	67,351
LOMBARDI, BENITO.....	ACUTE HEMORRHAGIC PANCREATITIS WITH FAT NECROSIS.....	1R01 AM18664-01	60,370
MANCUSO, THOMAS F.....	DISABILITY AND MORTALITY AS MEASURES OF CANCER.....	5R01 CA13811-04	118,708
MAZUMDAR, SATI.....	AIR POLLUTION MORBIDITY MORTALITY STUDY.....	1R01 ES01129-01A1	68,228
MC BURNEY, DONALD H.....	A PSYCHOPHYSICAL STUDY OF GUSTATORY ADAPTATION.....	5R01 NS07873-09	37,158
NAKADA, DAISUKE.....	CONTROL OF PLASMID GENE EXPRESSION.....	5R01 AI12630-02	35,806
NAKADA, DAISUKE.....	CONTROL OF VIRUS GENE EXPRESSION.....	5R01 GM21504-02	54,750
NEMOTO, EDWIN M.....	BRAIN POST-ISCHEMIC NO-REFLOW: PATHOLOGY AND THERAPY.....	5R01 NS12150-02	29,520
ONTELL, MARCIA B.....	MUSCLE SATELLITE CELL REACTION TO DISEASE AND TRAUMA.....	7R01 NS13688-01	40,091
OVE, PETER.....	CONTROL OF DNA REPLICATION IN NORMAL AND TUMOR CELLS.....	5R01 CA11637-06	41,156
OVE, PETER.....	SERUM FACTOR ON GROWTH OF TUMOR AND NORMAL CELLS.....	5R01 CA17607-02	35,243
PHILLIPS, BRUCE A.....	ROLE OF VIRAL-MODIFIED MEMBRANES IN VIRUS MATURATION.....	5R01 AI08368-09	36,356
PHILLIPS, STEPHEN L.....	MESSANGER RNA METABOLISM IN YEAST MITOCHONDRIA.....	1R01 GM23120-01	48,462
PULSINELLI, PHILLIP D.....	STRUCTURAL BASIS OF REGULATORY FUNCTION IN HEMOGLOBIN.....	5R01 AM18065-02	60,817
RABIN, BRUCE S.....	IMMUNOLOGIC STUDY OF EXPERIMENTAL ULCERATIVE COLITIS.....	5R01 AM18321-02	37,068
REBEK, JULIUS.....	A NEW TEST FOR REACTIVE INTERMEDIATES.....	7R01 GM23709-01	64,071
REDGATE, EDWARD S.....	NEURAL CONTROL OF ACTH RELEASE.....	5R01 NS04095-12	27,704
ROBINSON, ALAN G.....	THE PHYSIOLOGY OF NEUROPHYSIN SECRETION.....	5R01 AM16166-03	25,649
ROSENBERG, JEROME L.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07084-11	119,738
RUSSELL, RICHARD L.....	GENETIC VARIANTS OF SYNAPTIC PROTEINS.....	7R01 NS13749-01	41,871
RYAN, GORDON A.....	DNA SYNTHESIS AND ANTITUMOR DRUGS.....	5R01 CA15616-03	27,801
RYAN, GORDON A.....	PROTEINS INVOLVED IN DNA REPLICATION.....	5R01 GM20485-03	59,113
SAFAR, PETER.....	TREATMENT OF POST-ISCHEMIC-ANOXIC ENCEPHALOPATHY.....	5R01 NS10974-02	72,065
SAFAR, PETER.....	PANEL ON TOTAL BRAIN ISCHEMIA.....	1R13 NS13448-01	2,550
SALVIN, SAMUEL B.....	HYPERSENSITIVITY-TUBERCULIN/DELAYED-CELLULAR IMMUNITY.....	5R22 AI08528-09	80,279
SALVIN, SAMUEL B.....	IMMUNOLOGIC ENHANCEMENT: MECHANISM AND REGULATION.....	5R01 AI11945-03	45,939
SAX, MARTIN.....	CRYSTAL STRUCTURE OF M-COMPONENTS.....	1R01 AM18827-01	61,991
SAX, MARTIN.....	CATALYTIC AND ALLOSTERIC ROLES OF PHOSPHATE COFACTORS.....	9R01 AM18898-12	7,637
SCHUBERT, JACK.....	TOXIC METAL SYNERGISM AND MIXED CHELATE THERAPY.....	5R01 ES00963-03	39,727
SCHULTZ, STANLEY G.....	ION TRANSPORT BY MAMMALIAN SMALL INTESTINE.....	5R01 AM16275-04	81,325
SCHULTZ, STANLEY G.....	ION TRANSPORT BY MAMMALIAN SMALL INTESTINE.....	5R01 AM16275-05	83,149
SHINOZUKA, HISASHI.....	EXPERIMENTAL PANCREATIC CARCINOGENESIS CELLULAR ANALYSIS.....	1R26 CA20116-01	44,912
SIEGEL, ALEXANDER W.....	THE DEVELOPMENT OF SPATIAL REPRESENTATIONS.....	1R01 HD09694-01	43,176
STEVENS, CHARLES L.....	THE INITIAL STAGES OF PROTEIN POLYMERIZATION.....	1R01 GM22558-01	35,661



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
STOLC, VIKTOR.....	ENDOCRINE FACTORS IN NORMAL AND LEUKEMIC LEUKOCYTES.....	5R01 CA13418-05	27,554
STRAUB, DAREL K.....	BONDING IN IRON PORPHYRINS.....	5R01 AM16995-03	42,249
TOMKO, DAVID L.....	QUANTITATION OF NEURAL ACTIVITY IN VESTIBULAR NUCLEI.....	5R01 NS12308-02	31,970
TONG, WINTON.....	METABOLISM AND ENDOCRINE FUNCTION OF THE THYROID.....	2R01 AM06439-13A1	63,560
TROY, WILLIAM C.....	OSCILLATORY PHENOMENA IN NERVE CONDUCTION EQUATIONS.....	5R01 NS12457-02	5,010
VAUGHAN, MAURICE H, JR.....	METABOLISM OF ANIMAL CELL RIBOSOMES.....	5R01 CA10922-07	58,985
WATSON, JOSEPH A.....	STUDY OF UPPER RESPIRATORY TRACT CLEARANCE.....	5R01 ES00421-12	47,976
WERNER, GERHARD.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05416-15	232,821
WIDNELL, CHRISTOPHER C.....	MEMBRANE FUNCTION IN AGING AND DEVELOPMENT.....	5R01 AG00439-05	78,638
WIDNELL, CHRISTOPHER C.....	PLASMA MEMBRANE STRUCTURE, FUNCTION AND BIOGENESIS.....	2R01 GM17724-06	113,030
WOOD, DAVID C.....	BIOCHEMICAL CHARACTERIZATION OF HABITUATION.....	5R01 NS09733-06	29,616
YOUNGNER, JULIUS S.....	STUDIES OF CELLULAR RESISTANCE TO VIRUS INFECTIONS.....	5R01 AI06264-12	133,584
YOUNGNER, JULIUS S.....	STUDIES OF CELLULAR RESISTANCE TO VIRUS INFECTIONS.....	5R01 AI06264-13	135,698
ORGANIZATION TOTAL	166 10,910,535		
<b>VETERANS ADMINISTRATION HOSPITAL ZIP CODE 15240</b>			
DE RUBERTIS, FREDERICK R.....	CYCLIC AMP IN CARCINOMA OF THE COLON.....	5R26 CA16908-02	20,300
ORGANIZATION TOTAL	1 20,300		
<b>SWARTHMORE</b>			
<b>SWARTHMORE COLLEGE ZIP CODE 19081</b>			
HENNING, SUSAN J.....	REGULATION OF INTESTINAL DEVELOPMENT.....	1R01 HD10042-01	41,063
ORGANIZATION TOTAL	1 41,063		
<b>UNIVERSITY PARK</b>			
<b>PENNSYLVANIA STATE UNIVERSITY ZIP CODE 16802</b>			
ALCOCK, HARRY R.....	POLYDIAMINOPHOSPHAZENES.....	2R01 HL11418-07	41,528
ARNETT, DAVID W.....	INTERACTIONS BETWEEN MAMMALIAN RETINAL GANGLION CELLS.....	1R23 EY01652-01	10,088
ARNETT, DAVID W.....	PROTOTYPE MODEL OF THE LATERAL GENICULATE.....	5R01 NS12380-02	21,328
ARONSON, NATHAN N, JR.....	NORMAL AND PATHOLOGICAL LYSOSOMAL METABOLISM.....	5R01 AM15465-05	60,513
BAKER, PAUL T.....	MIGRATION AND POPULATION BIOLOGY IN SOUTHERN PERU.....	5R01 HD09182-02	31,843
BALTES, PAUL B.....	COGNITIVE DEVELOPMENT AND MODIFIABILITY IN ADULTHOOD.....	1R01 AG00403-01	80,910
BARRON, GEORGE P.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07082-11	110,119
BENKOVIC, STEPHEN J.....	ANOMERIC SPECIFICITY IN GLYCOLYTIC METABOLISM.....	5R01 AM16464-04	42,524
BENKOVIC, STEPHEN J.....	ANOMERIC SPECIFICITY IN GLYCOLYTIC METABOLISM.....	5R01 AM16464-05	45,168
BENKOVIC, STEPHEN J.....	PHOSPHATE ACTIVATION MECHANISMS.....	2R01 GM13306-11	87,699
BRENCHLEY, JEAN E.....	CHARACTERIZATION OF T-RNA MATURATION MUTANTS.....	5R01 GM19423-05	48,684
BUSKIRK, ELSWORTH R.....	OBESEITY AND PHYSIOLOGICAL RESPONSE TO ENVIRONMENT.....	5R01 AM08311-12	86,099
BUSS, EDWARD G.....	INFLUENCE OF MUTANT GENE ON RIBOFLAVIN METABOLISM.....	2R01 GM07830-16	59,615
DAVIDS, NORMAN.....	ANALYSIS OF STRESS IN PULSATILE DYNAMICS.....	2R01 HL11289-10	43,897
DEERING, REGINALD A.....	DNA REPAIR IN SLIME MOLD.....	5R01 GM16620-07	53,237
FAHNESTOCK, STEPHEN R.....	DEFECTIVE PROTEIN SYNTHESIS BY MODIFIED RIBOSOMES.....	5R01 GM21080-03	36,637
GINOZA, WILLIAM.....	DEGRADATION OF T4 DNA OCCURRING EARLY IN INFECTION.....	5R01 AI11712-02	35,125
GUTHRIE, HELEN A.....	IRON DEFICIENCY HYPERLIPIDEMIA IN DEVELOPMENT.....	1R01 HL18712-01	44,832
HAMILTON, GORDON A.....	A MECHANISTIC STUDY OF SOME O2 OXIDOREDUCTASES.....	5R01 AM13448-06	59,654
HAMILTON, GORDON A.....	REAGENTS FOR SYNTHESIZING CARCINOGENIC ARENE OXIDES.....	5R01 CA17717-02	44,025
HAMMERSTEDT, ROY H.....	THE ROLE OF THE EPIDIDYMIS IN SPERMATOZOA MATURATION.....	5R01 HD05859-06	62,886
HARTZELL, CHARLES R.....	STRUCTURAL ELUCIDATION OF HEART CYTOCHROME C OXIDASE.....	5R01 HL17559-02	33,658
HIBBARD, EMERSON.....	VISUAL RESTORATION.....	2R01 EY01071-04	45,091
HOLLIS, THEODORE M.....	AORTIC HISTAMINE SYNTHESIS IN DIABETES.....	1R01 HL20460-01	33,499
JORDAN, JOSEPH.....	ELECTRON TRANSFER MECHANISMS AND HEMOPROTEIN MODELS.....	5R01 HL02342-20	55,239
KARAKAWA, WALTER W.....	ROLE OF SURFACE ANTIGENS IN STAPHYLOCOCCAL INFECTIONS.....	5R01 AI11598-03	53,258
KARAKAWA, WALTER W.....	ROLE OF SURFACE ANTIGENS IN STAPHYLOCOCCAL INFECTIONS.....	5R01 AI11598-04	55,831
KIRCHNER, ELIZABETH P.....	DEVELOPING MEASURES OF PARENTHOOD MOTIVATION.....	5R01 HD06258-03	43,105
LANG, L GEORGE.....	MOSSBAUER STUDIES OF RESPIRATORY HEMOPROTEINS.....	5R01 HL16860-02	65,636
LANG, L GEORGE.....	MOSSBAUER STUDIES OF RESPIRATORY HEMOPROTEINS.....	5R01 HL16860-03	34,256
MACCLUER, JEAN W.....	HUMAN POPULATION STRUCTURE: A COMPUTER SIMULATION.....	5R01 HD07618-02	39,495

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PENNSYLVANIA—Continued</b>			
MARTIN, ROY J.	METABOLIC REGULATION OF GROWTH AND DEVELOPMENT	5R01 HD07090-04	73,434
MASTRO, ANDREA M.	PHOSPHORYLATION OF CELL SURFACES	1R01 GM22953-01	36,645
MATTHEWS, CHARLES R.	REVERSIBLE UNFOLDING OF NATIVE AND MUTANT PROTEINS	1R01 GM23303-01	43,811
MC CARL, RICHARD L.	EFFECT OF AGING ON BEATING HEART CELLS IN CULTURE	5R01 HL10018-09	47,611
MUELLER, WERNER J.	MECHANISMS OF BONE RESORPTION AND ACCRETION IN VIVO	5R01 AM04362-15	65,348
OLOFSON, ROY A.	NEW METHODS OF PEPTIDE SYNTHESIS	5R01 GM13980-12	61,351
PATTON, STUART	STRUCTURE AND SYNTHESIS OF MILK LIPIDS	5R01 HL03632-18	64,133
PERSON, STANLEY	THE MECHANISM OF VIRUS INDUCED CELL FUSION	5R01 AI11513-03	54,513
PHILLIPS, ALLEN T.	COVALENT MODIFICATIONS REGULATING ENZYME FUNCTION	5R01 AM13198-08	46,800
RAVIZZA, RICHARD J.	BEHAVIORAL ANALYSIS OF CENTRAL HEARING MECHANISMS	5R01 NS11554-03	22,634
RHOADES, RODNEY A.	LACTATE METABOLISM IN THE LUNG	5R01 HL16528-03	17,059
SCHRAER, HARALD	HORMONES, BONE CELL INTERACTIONS AND BONE MINERALIZATION	5R01 DE01764-14	72,743
SCHRAER, HARALD	CELLULAR AND MOLECULAR ASPECTS OF MINERALIZATION	1R01 DE04345-01	63,398
SCHRAER, ROSEMARY S.	CARBONIC ANHYDRASE, CALCIUM METABOLISM AND DDT	5R01 AM17217-03	62,308
SHAMMA, MAURICE	ISOLATION AND SYNTHESIS OF ANTICANCER DRUGS	5R01 CA11450-06	56,364
SHAMMA, MAURICE	REACTIONS OF ALKALOIDS AND THEIR ANALOGS	5R01 HL12971-13	62,844
TAYLOR, WILLIAM D.	REACTION OF CARCINOGENS AND CELL EXTRACTS WITH RF-DNA	1R01 CA18970-01	66,984
TODD, PAUL W.	CELLULAR STUDIES RELATED TO HIGH LET RADIOTHERAPY	5R01 CA17536-02	52,283
UNDERWOOD, BARBARA A.	VITAMIN A: FORM AND DISTRIBUTION IN HEPATIC CELL TYPES	5R01 AM16578-03	40,068
VILAFRANCA, JOSEPH J.	CONCAVALIN A-SACCHARIDE STRUCTURAL STUDIES	5R01 CA16661-03	25,283
WARME, PAUL K.	ACTIVITY OF CYTOCHROME ANALOGS IN HEART MITOCHONDRIA	5R01 GM20742-02	27,361
ORGANIZATION TOTAL	52	2,628,454	
<b>VILLANOVA</b>			
<b>VILLANOVA UNIVERSITY</b>	<b>ZIP CODE 19085</b>		
EDWARDS, JOHN R.	BIOSYNTHESIS OF DEXTRANS BY CARIOGENIC STREPTOCOCCI	5R01 DE03101-05	44,381
WARD, INGEBORG L.	EFFECTS OF PREPUBERAL STRESS ON ADULT SEXUAL BEHAVIOR	5R01 HD04688-07	41,976
ORGANIZATION TOTAL	2	86,357	
<b>WILKES-BARRE</b>			
<b>LUZERNE COUNTY MEDICAL SOCIETY</b>	<b>ZIP CODE 18701</b>		
SMITH, HAROLD	EXPLORATORY STUDIES IN CANCER RESEARCH	3P20 CA16067-02S1	219,617
ORGANIZATION TOTAL	1	219,617	
STATE TOTAL	1,033	105,838,563	
<b>RHODE ISLAND</b>			
<b>KINGSTON</b>			
<b>GORDON RESEARCH CONFERENCES</b>	<b>ZIP CODE 02881</b>		
BALDWIN, ROBERT L.	1976 BIOPOLYMERS GORDON CONFERENCE	1R13 GM23315-01	6,500
BROWN, GEORGE B.	CONFERENCE: PURINES AND RELATED COMPOUNDS	1R13 GM22932-01	10,150
DAYTON, PETER G.	GORDON RESEARCH CONFERENCE ON DRUG METABOLISM, 1976	1R13 GM23017-01	4,403
DE HAAN, ROBERT L.	GORDON CONFERENCE ON RHYTHMIC ACTIVITY IN MUSCLE	1R13 HL18959-01	6,000
GETZ, GODFREY S.	GORDON RESEARCH CONFERENCE ON MOLECULAR PATHOLOGY	1R13 GM23392-01	6,313
HELLSTROM, INGEGERD E.	GORDON CONFERENCE ON TUMOR IMMUNOLOGY	2R13 CA14973-02	28,825
HOLTZMAN, ERIC	GORDON CONFERENCE ON LYSOSOMES	1R13 GM23142-01	1,000
MC CARTHY, BRIAN J.	GORDON CONF. -NUCLEAR PROTEIN/CHROMATIN/GENE REGULATION	1R13 GM23317-01	4,000
YANOFSKY, CHARLES	GORDON CONFERENCE ON BIOLOGICAL REGULATORY MECHANISMS	1R13 CA20087-01	14,118
ORGANIZATION TOTAL	9	81,309	
<b>UNIVERSITY OF RHODE ISLAND</b>	<b>ZIP CODE 02881</b>		
BELL, ROBERT G.	ANTICOAGULANTS AND METABOLISM OF VITAMIN K	5R01 HL14847-05	37,890
BROWN, PHYLLIS R.	HPLC STUDY OF BLOOD NUCLEOTIDES AND NUCLEOSIDES	5R01 CA17603-02	32,504

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>RHODE ISLAND—Continued</b>			
COHEN, PAUL S.	FUNCTIONAL VIRAL MRNA MADE WITHOUT PROTEIN SYNTHESIS	5R01 AI11518-02	18,582
COHEN, PAUL S.	FUNCTIONAL VIRAL MRNA MADE WITHOUT PROTEIN SYNTHESIS	5R01 AI11518-03	23,403
DAIN, JOEL A.	THE ENZYMIC SYNTHESIS OF GANGLIOSIDE DURING DEVELOPMENT	5R01 NS05104-11	26,189
DAIN, JOEL A.	THE ENZYMIC SYNTHESIS OF GANGLIOSIDE DURING DEVELOPMENT	5R01 NS05104-12	27,521
DE FEO, JOHN J.	BIOMEDICAL RESEARCH SUPPORT GRANT	1S07 RR05777-01	18,644
FULLER, GEORGE C.	COLLAGEN SYNTHESIS IN CONNECTIVE TISSUE DISEASE	5R01 AM16063-03	31,596
FULLER, GEORGE C.	REGULATION OF SMOOTH MUSCLE CELLS IN ARTERIOSCLEROSIS	1R01 HL16904-01A1	28,594
HARTMAN, KARL A, JR	THE MOLECULAR STRUCTURE OF RNA VIRUSES	5R01 AI11856-02	20,665
HARTMAN, KARL A, JR	THE MOLECULAR STRUCTURE OF RNA VIRUSES	5R01 AI11856-03	18,712
HOCHSTADT, JOY	TRANSPORT BY MEMBRANE VESICLES OF CULTURED TUMOR CELLS	7R01 CA21693-01	98,805
LAUX, DAVID C.	TUMOR-MEDIATED SUPPRESSION OF IMMUNE REACTIVITY	5R01 CA16704-02	26,765
LAUX, DAVID C.	TUMOR-MEDIATED SUPPRESSION OF IMMUNE REACTIVITY	5R01 CA16704-03	27,649
STEPANISHEN, PETER R.	DIAGNOSTIC ULTRASONICS WITH TWO DIMENSIONAL ARRAYS	1R01 GM23104-01	29,000
TREMBLAY, GEORGE C.	PYRIMIDINE METABOLISM IN HUMAN AND RAT TISSUES	5R01 CA17131-09	38,130
TURCOTTE, JOSEPH G.	CYTOTOXIC AGENTS AFFECTING CELL MEMBRANE BIOGENESIS	5R01 CA15898-03	29,841
TURCOTTE, JOSEPH G.	SYNTHESIS OF RENIN INHIBITORS AND ANALOG PHOSPHATIDES	5R01 HL13587-05	34,235
TURCOTTE, JOSEPH G.	SYNTHESIS OF PHOSPHOLIPID LUNG SURFACTANTS	5R01 HL16207-03	31,321
WOOD, NORRIS P.	BIOMEDICAL RESEARCH SUPPORT GRANT	1S07 RR07086-01	21,004
ORGANIZATION TOTAL	20	621,050	
<b>PAWTUCKET</b>			
MEMORIAL HOSPITAL	ZIP CODE 02860		
STEINER, MANFRED.	STUDIES ON ERYTHROLEUKEMIA AND SIDEROBLASTIC ANEMIA	5R01 AM17327-03	31,096
STEINER, MANFRED.	STUDIES OF PLATELET MICROTUBULE PROTEIN	1R01 HL19323-01	44,888
ORGANIZATION TOTAL	2	75,984	
<b>PROVIDENCE</b>			
BROWN UNIVERSITY	ZIP CODE 02912		
BRAY, PHILIP J.	NUCLEAR RESONANCE STUDIES OF MOLECULAR SYSTEMS	2R01 GM19018-12	83,325
BUTCHER, FRED R.	ROLE OF CYCLIC NUCLEOTIDE IN PAROTID GLAND FUNCTION	1R01 AM18751-01	52,236
CANE, DAVID E.	RESONANCE ANALYSES OF ISOPRENOID BIOSYNTHESIS	5R01 GM22172-02	37,100
CHA, SUNGMAN.	NUCLEOTIDE METABOLISM IN MURINE LEUKEMIA CELLS	2R01 CA12531-04A1	39,115
CHA, SUNGMAN.	NUCLEOTIDE METABOLISM IN MURINE LEUKEMIA CELLS	5R01 CA12531-05	41,600
CHASE, HERMAN B.	DEVELOPMENTAL GENETICS OF ANOPHTHALMIA	5R01 EY01274-02	48,771
CHURCH, RUSSELL M.	CONTROL PROCESSES IN TIMING	1R01 GM23247-01	44,555
CSERR, HELEN F.	THE FUNCTIONAL SIGNIFICANCE OF CEREBROSPINAL FLUID	2R01 NS11050-04	45,661
CZECH, MICHAEL P.	INSULIN ACTION ON THE FAT CELL SURFACE MEMBRANE	5R01 AM17893-02	39,488
CZECH, MICHAEL P.	INSULIN ACTION ON THE FAT CELL SURFACE MEMBRANE	5R01 AM17893-03	41,866
DAHLBERG, ALBERT E.	POLYSOMES & SUBUNITS: STRUCTURE-FUNCTION RELATIONSHIPS	2R01 GM19756-04	56,191
DAHLBERG, ALBERT E.	POLYSOMES & SUBUNITS: STRUCTURE-FUNCTION RELATIONSHIPS	5R01 GM19756-05	56,128
EBNER, FORD F.	ANATOMICAL ANALYSES OF CORTICAL SYSTEMS	5R01 NS06551-11	36,828
EBNER, FORD F.	STRUCTURE-FUNCTION ANALYSIS OF SINGLE CORTICAL NEURONS	1R01 NS13031-01	77,295
EDWARDS, JOHN O.	METHYL VIOLOGEN AND THE PHOTOSYNTHETIC PROCESS	1R01 GM23082-01	44,580
EIMAS, PETER D.	DEVELOPMENTAL STUDIES OF SPEECH PERCEPTION	5R01 HD05331-06	43,843
EIMAS, PETER D.	DEVELOPMENTAL STUDIES OF SPEECH PERCEPTION	2R01 HD05331-07	58,552
FAIN, JOHN N.	HORMONAL CONTROL OF LIPID METABOLISM	2R01 AM10149-11	70,966
FAIN, JOHN N.	ORAL ANTIDIABETIC DRUGS AND CELLULAR METABOLISM	5R01 AM14648-06	38,233
FAIN, JOHN N.	ORAL ANTIDIABETIC DRUGS AND CELLULAR METABOLISM	5R01 AM14648-07	39,442
FAUSTO-STERLING, ANNE	EARLY EMBRYOGENESIS IN DROSOPHILA MELANOGASTER	5R01 HD07918-02	35,687
FAUSTO, NELSON.	POLYAMINES AND RNA SYNTHESIS DURING LIVER REGENERATION	5R01 AM14706-05	52,050
FAUSTO, NELSON.	POLYAMINES AND RNA SYNTHESIS DURING LIVER REGENERATION	5R01 AM14706-06	54,764
GALLETTI, PIERRE M.	SYNTHESIS OF ARTIFICIAL LUNG AND KIDNEY SYSTEMS	2R01 HL11945-08	135,685
GALLETTI, PIERRE M.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05664-09	74,923
GERBI, SUSAN A.	FINE STRUCTURE OF RIBOSOMAL RNA	5R01 GM20261-03	21,995
GERBI, SUSAN A.	CHROMOSOMES: GENETIC UNITS IN THE HETEROCHROMATIN	1R01 GM22882-01	35,921
GIBBS, JULIAN H.	STATISTICAL MECHANICS OF BIOLOGICAL MACROMOLECULES	5R01 GM10906-15	45,132
GIBBS, JULIAN H.	STATISTICAL MECHANICS OF BIOLOGICAL MACROMOLECULES	2R01 GM10906-16	41,549



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>RHODE ISLAND—Continued</b>			
GOLDSTEIN, LEON	RENAL AMMONIA METABOLISM	5R01 AM12443-08	38,341
GROSS, RICHARD J.	COMPENSATORY PULMONARY HYPERTROPHY	5R01 HL16336-03	33,363
HODOSH, MILTON	THE POROUS V.C.-P.M.M.A. REPLICA IMPLANT	5R01 DE04045-02	44,593
JACKSON, DONALD C.	RESPIRATORY CONTROL AND BODY TEMPERATURE	5R01 HL16653-03	27,030
KLING, JULIUS W.	SENSORY PROPERTIES OF ELECTRICAL BRAIN STIMULATION	5R01 NS12290-02	36,352
KNOFF, PAUL M.	PATHWAYS LEADING TO EXPRESSION OF IMMUNOGLOBULIN	5R01 AI11169-03	38,850
LANDY, ARTHUR	CONTROL OF SYNTHESIS AND FUNCTION OF NUCLEIC ACID	5R01 CA11208-08	60,384
LEDUC, ELIZABETH H.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07085-11	64,148
LIEBERMAN, PHILIP	DEVELOPMENTAL STUDIES OF SPEECH PRODUCTION	5R01 HD09197-02	49,871
LUSK, JOAN E.	MEMBRANE PERMEABILITY OF COLICIN-TREATED CELLS	2R01 GM20171-04	42,323
MARSHALL, JEAN M.	PROPERTIES OF SMOOTH MUSCLE	5R01 HD06963-11	50,389
MASSOVER, WILLIAM H.	FORM AND FUNCTION OF NORMAL AND NEOPLASTIC FERRITINS	1R01 CA18530-01	75,424
MC ILWAIN, JAMES T.	CORTICAL CONTROL OF SUPERIOR COLLICULUS	5R01 NS09997-04	21,929
MONTEIRO, LOIS A.	WOMEN'S ROLE AND ABORTION: ATTITUDE CHANGES 1971-75	2R01 HD09258-02	13,791
MORTON, THOMAS H.	OPTICAL ACTIVITY OF A CHIRAL SKEW BUTADIENE	1R01 GM23256-01	7,267
PALATT, PAUL J.	PREVENTION OF THROMBOSIS BY APPLIED ELECTRIC FIELDS	1R01 HL19350-01	15,473
PARKER, KATHLYN A.	SYNTHESIS OF HIGHLY OXYGENATED COMPOUNDS	5R01 CA16524-03	26,042
PARKS, ROBERT E., JR.	COENZYMES CONTAINING PURINE AND PYRIMIDINE ANALOGS	5R01 CA07340-13	113,800
PIERRE-SORRENTINO, R.	LOUDNESS SCALING	5R01 NS12349-02	36,265
POTTER, ROBERT G.	MOMENTUM OF GROWTH IN HUMAN POPULATIONS	1R01 HD10091-01	36,466
PRUSCH, ROBERT D.	ACTIVE AMMONIUM TRANSPORT	5R01 AM17957-02	17,425
PYSH, EUGENE S.	CHARACTERIZATION OF BIOPOLYMERS BY CIRCULAR DICHROISM	1R01 GM22347-01	35,142
QUEVEDO, WALTER C., JR.	RESPONSE OF PIGMENT CELLS TO X- AND UV-RADIATIONS	5R01 CA06097-15	48,094
RIEGER, PHILIP H.	AQUEOUS SOLUTION STUDIES OF ARSENATES AND VANADATES	5R01 ES00894-03	32,577
RIGGS, LORRIN A.	HUMAN VISUAL RESPONSES IN RETINA AND CORTEX	5R01 EY00744-05	36,706
RIGGS, LORRIN A.	THE ACCURACY OF RETINAL IMAGE STABILIZATION	1R01 EY01871-01	34,111
ROTMAN, M. BORIS	RECESSIVE GENES CONTROLLING IMMUNOCOMPETENCE	5R01 AI12626-02	58,632
ROTMAN, M. BORIS	BIOCHEMICAL COMPONENTS OF A TRANSPORT SYSTEM	2R01 AM11194-09	54,624
SCHRIER, ALLAN M.	SUPPORT FOR PRIMATE LABORATORY NEWSLETTER	2R01 RR00419-09	19,470
SHEPP, BRYAN E.	DEVELOPMENTAL STUDIES IN LEARNING AND ATTENTION	5R01 HD04320-08	56,192
SHIPP, WILLIAM S.	BIOCHEMICAL GENETICS OF MEMBRANE-ASSOCIATED ENZYMES	5R01 AI08595-08	29,013
SHIPP, WILLIAM S.	BIOCHEMICAL GENETICS OF MEMBRANE-ASSOCIATED ENZYMES	5R01 AI08595-09	24,160
SIQUELAND, EINAR R.	EXPERIENTIAL DETERMINANTS OF EXPLORATION IN PREMATURES	5R01 HD03386-08	76,621
STEIN, JOSEPH M.	BIOPHYSICAL STUDIES OF BIOMEMBRANES AND MODEL SYSTEMS	2R01 GM20545-04	41,840
WOOTEN, BILLY R.	RETINAL MOSAICISM IN FEMALES CARRYING COLOR BLINDNESS	5R01 EY01512-02	26,126
ORGANIZATION TOTAL	64	2,916,315	
<b>MIRIAM HOSPITAL ZIP CODE 02906</b>			
HOPKINS, ROBERT W.	STUDIES OF CLINICAL AND EXPERIMENTAL SHOCK	5R01 GM19930-05	48,820
MORRIS, DAVID J.	THE METABOLISM AND ENDOCRINE ACTION OF ALDOSTERONE	1R01 AM19179-01A1	36,248
WELTMAN, JOEL K.	ENZYMATIC TESTS FOR CARCINOEMBRYONIC ANTIGEN	3R26 CA15261-03S1	10,875
ORGANIZATION TOTAL	3	95,943	
<b>RHODE ISLAND HOSPITAL ZIP CODE 02902</b>			
LEONE, LOUIS A.	ACUTE LEUKEMIA GROUP B	5R10 CA08025-12	107,842
MARTIN, HORACE F.	IMPAIRMENT OF STEROID SYNTHESIS BY SPIRONOLACTONE	5R01 AM18365-02	30,067
SCHWARTZ, ROBERT	CARBOHYDRATE METABOLISM IN THE NEWBORN	5R01 HD08977-03	53,670
ORGANIZATION TOTAL	3	191,579	
<b>ROGER WILLIAMS GENERAL HOSPITAL ZIP CODE 02908</b>			
CALABRESI, PAUL	SUPPORT FOR CLINICAL CANCER RESEARCH CENTER	2P30 CA13943-04	646,072
CALABRESI, PAUL	CLINICAL PHARMACOLOGICAL STUDIES OF ANTINEOPLASMS	1P01 CA20892-01	337,761
CALABRESI, PAUL	DERMATOPHARMACOLOGIC STUDIES IN PSORIASIS	5R01 GM21535-03	50,709
CALABRESI, PAUL	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05765-02	68,697
CHU, MING Y.	DRUG DEVELOPMENT—HUMAN LEUKEMIC CELL GROWTH FACTORS	5R01 CA15909-03	36,279
CUMMINGS, FRANCIS J.	EASTERN COOPERATIVE ONCOLOGY GROUP	5R10 CA15947-03	22,934
HEPPNER, GLORIA H.	IMMUNE REACTIVITY AND MAMMARY NEOPLASIA	5R01 CA17074-02	77,661
ORGANIZATION TOTAL	7	1,240,113	
STATE TOTAL	108	5,222,293	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>SOUTH CAROLINA</b>			
<b>CHARLESTON</b>			
<b>MEDICAL UNIVERSITY OF SOUTH CAROLINA      ZIP CODE 29401</b>			
AINSWORTH, STERLING K.	STRUCTURAL BASIS OF NEPHRON FILTRATION	5R01 HL16490-02	52,834
BAGGETT, BILLY	NUCLEOTIDE METABOLISM IN THE DECIDUAL UTERUS	5R01 HD06362-05	67,691
BANK, HARVEY L.	CRYOBIOLOGY OF ISOLATED ISLETS OF LANGERHANS	5R01 AM18115-02	41,917
BROSTOFF, STEVEN W.	THE ROLE OF MYELIN PROTEINS IN EXPERIMENTAL NEURITIS	5R01 NS11867-03	50,771
BUSE, MARIA G.	FACTORS THAT MODIFY INSULIN ACTION	5R01 AM02001-19	57,394
COLES, WILLIAM H.	TOXIC AND TRAUMATIC EFFECTS ON CORNEAL ENDOTHELIUM	5R01 EY01439-02	27,571
COLWELL, JOHN A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05420-15	136,276
CROUCH, ROSALIE K.	RETINAL DISEASE AND ARTIFICIAL VISUAL PIGMENTS	1R01 EY01612-01A1	32,442
CUNNINGHAM, EARLENE B.	INTERACTIONS OF ENZYMES OF THE ERYTHROCYTE MEMBRANE	1R01 GM22819-01	45,724
EURENIUS, KARL	GRANULOCYTES AND THE INFECTED BURN WOUND	5R01 GM21758-02	26,767
FISH, WAYNE W.	MECHANISM OF IRON STORAGE AND MOBILIZATION BY FERRITIN	1R01 HL19491-01	23,832
FITTS, CHARLES T.	LYMPHOCYTE DEPLETION FOR IMMUNOSUPPRESSION	5R01 AI10035-06	52,545
FITZHARRIS, TIMOTHY P.	CONTROL MECHANISMS IN REGENERATION AND POLARITY	5R01 NS11831-02	49,321
FRAYSER, REGINA	EXPERIMENTAL EMPHYSEMA	5R01 HL15755-02	22,260
FUDENBERG, H. HUGH	GENETIC MECHANISMS IN IMMUNOLOGIC DEFICIENCY STATES	7R01 AI13484-01	100,208
FUDENBERG, H. HUGH	ANTICOLLAGEN ANTIBODIES, MM FACTORS AND CAMP IN RA	7R01 AM19201-01	26,722
FUDENBERG, H. HUGH	ANTICOLLAGEN ANTIBODIES, MM FACTORS AND CAMP IN RA	5R01 AM19201-02	41,656
FUDENBERG, H. HUGH	GENETIC CHILDHOOD DISEASES AND AGING	2P01 HD09938-02	272,211
GAFFNEY, THOMAS E.	INTERDISCIPLINARY PROGRAM IN PHARMACOLOGY/TOXICOLOGY	5P50 GM20387-04	481,622
GALE, GLEN R.	PLATINUM COMPOUNDS IN CHEMOTHERAPY OF L1210 LEUKEMIA	5R01 CA11811-11	40,586
HASKILL, JOHN S.	ANALYSIS OF THE HOST RESPONSE WITHIN SOLID TUMORS	5R01 CA17694-02	63,772
HEMPLING, HAROLD G.	PERMEABILITY OF THE LEUCOCYTE AND THE NEOPLASTIC CELL	2R01 CA12956-05	27,485
HEMPLING, HAROLD G.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05767-02	23,360
HOGAN, EDWARD L.	MOLECULAR PATHOLOGY OF LEUCODYSTROPHY	2R01 NS12044-02	74,116
HOHN, ARNO R.	HYPERTENSIVE PROGENY: PHYSICAL/HUMORAL PRECURSOR SEARCH	1R01 HL19870-01	130,846
HYNES, JOHN B.	SYNTHESIS AND EVALUATION OF NEW FOLATE ANTAGONISTS	5R01 CA14615-03	38,032
JOHNSON, ROBERT C.	RADIOSENSITIZATION BY SPECIFIC DNA REPAIR CONTROL	1R01 CA18205-01A1	28,185
KARAM, JIM D.	GENETIC CONTROL OF PHAGE T4 DNA REPLICATION	5R01 GM18842-05	29,929
KARAM, JIM D.	GENETIC CONTROL OF PHAGE T4 DNA REPLICATION	5R01 GM18842-06	31,072
LE ROY, E. CARWILE	STUDY OF SCLERODERMA (SYSTEMIC SCLEROSIS)	5R01 AM18904-02	67,688
LEDFOED, BARRY E.	SERUM PROTEIN SYNTHESIS BY MOUSE HEPATOMA CELLS	5R01 CA17037-03	34,860
LINDENMAYER, GEORGE E.	MEMBRANE RELATIONSHIPS OF THE SODIUM-POTASSIUM PUMP	1R01 AM18747-01	44,855
MARGOLIUS, HARRY S.	KALLIKREIN-KININ SYSTEM IN HYPERTENSION	5R01 HL17705-02	64,094
MILLS, JOHN H.	AUDITORY EFFECTS OF LONG EXPOSURE TO LOW LEVELS OF NOISE	5R01 ES01301-02	62,994
MORGAN, SAMUEL K.	SOUTHWEST ONCOLOGY GROUP	5R10 CA16388-02	36,935
NEWMAN, WALTER H.	MECHANICS OF COMPENSATORY VENTRICULAR HYPERTROPHY	3R01 HL14545-03S1	11,398
NEWMAN, WALTER H.	MECHANICS OF COMPENSATORY VENTRICULAR HYPERTROPHY	2R01 HL14545-04A1	41,796
OGAWA, MAKIO	CHEMOTHERAPY OF MYELOMA WITH PLATINUM COMPOUNDS	5R01 CA16488-02	42,594
OGAWA, MAKIO	CHEMOTHERAPY & GRANULOCYTIC & LEUKEMIC CELLS IN CULTURE	5R01 CA17002-02	35,576
ONDO, JEROME G.	HYPOTHALAMIC-PITUITARY FUNCTION AND MAMMARY NEOPLASIA	5R01 CA15574-03	19,205
ONDO, JEROME G.	AMINO ACID NEUROTRANSMITTERS AND REPRODUCTION	1R01 HD10132-01	33,866
PENNINGTON, RAYMOND C.	SMALL VESSEL PATHOPHYSIOLOGY IN DIABETES MELLITUS	3R01 HL15811-03S1	1,603
PEROT, PHANOR L, JR.	FUNDAMENTAL STUDIES IN SPINAL CORD INJURY	5P01 NS11066-03	196,681
PRITCHARD, JOHN B.	RENAL HANDLING OF DDA AND ITS IMPLICATIONS	5R01 ES00974-03	21,344
SCHWABE, CHRISTIAN	PROTEIN TURNOVER IN DENTAL PULP AND PERIODONTAL TISSUES	5R01 DE03470-05	41,877
SPECTOR, MYRON	POROUS HIGH DENSITY POLYETHYLENE TOOTH ROOTS	1R23 DE04414-01	12,606
SPICER, SAMUEL S.	CELL ULTRASTRUCTURE AND FUNCTION	5R01 AM10956-10	69,630
SPICER, SAMUEL S.	CELL ULTRASTRUCTURE AND FUNCTION	5R01 AM10956-11	73,687
SPICER, SAMUEL S.	MORPHOCHEMICAL STUDIES, LIGHT & ELECTRON MICROSCOPY	5R01 AM11028-10	43,398
SWANSON, ARNOLD A.	PROTEOLYSIS IN NORMAL AND SENILE CATARACT LENS	5R01 EY00429-08	43,985
WANG, AN-CHUAN	STRUCTURE, GENETICS AND EVOLUTION OF IMMUNOGLOBULINS	7R01 AI13388-01	30,223
WANG, AN-CHUAN	STRUCTURE, GENETICS AND EVOLUTION OF IMMUNOGLOBULINS	5R01 AI13388-02	31,974
WHEELER, DARRELL D.	AGING AND MEMBRANE TRANSPORT IN THE NERVOUS SYSTEM	5R01 NS12292-02	8,744
WISE, WILLIAM C.	AMINO ACID TRANSPORT IN NORMAL AND NEOPLASTIC CELLS	2R01 CA13529-04	49,854
YOUNG, FRANKLIN A, JR.	ARTIFICIAL TOOTH ROOTS	5R01 DE03497-04	36,382
YOUNG, FRANKLIN A, JR.	ARTIFICIAL TOOTH ROOTS	5R01 DE03497-05	35,024

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>SOUTH CAROLINA—Continued</b>			
ZEMP, JOHN W.....	FOLIC ACID DEFICIENCY AND BRAIN DEVELOPMENT .....	5R01 NS09471-04	41,755
ORGANIZATION TOTAL	57 3,331,775		
<b>SOCIETY OF GENERAL PHYSIOLOGISTS ZIP CODE 29401</b>			
LASH, JAMES W.....	CELL AND TISSUE INTERACTIONS—A SYMPOSIUM .....	1R13 GM22934-01	6,500
ORGANIZATION TOTAL	1 6,500		
<b>CLEMSON</b>			
<b>CLEMSON UNIVERSITY ZIP CODE 29631</b>			
HILDERMAN, RICHARD H.....	STUDIES ON THE AMINOACYL-TRNA SYNTHETASE COMPLEX .....	1R01 GM22718-01	62,471
POWELL, GARY L.....	ACYL COA INTERACTION WITH HEART CITRATE SYNTHASE .....	1R01 GM22788-01	41,810
ZIMMERMAN, JAMES K.....	STUDIES ON PYRUVATE KINASE USING DIRECT GEL SCANNING .....	5R01 GM19550-03	25,201
ORGANIZATION TOTAL	3 129,482		
<b>COLUMBIA</b>			
<b>BENEDICT COLLEGE ZIP CODE 29204</b>			
FINLAY, MARY F.....	POLLUTION ANALYSIS WITH STUDENT PARTICIPATION .....	5S06 RR08117-02	140,024
FINLAY, MARY F.....	POLLUTION ANALYSIS WITH STUDENT PARTICIPATION .....	5S06 RR08117-03	128,380
ORGANIZATION TOTAL	2 268,404		
<b>UNIVERSITY OF SOUTH CAROLINA ZIP CODE 29208</b>			
ALLEN, DONALD O.....	THE ROLE OF ADRENOCORTICOIDS IN LIPOLYSIS .....	7R01 AM19472-01	22,529
AMMA, ELMER L.....	MECHANISM OF DNA INHIBITION BY METAL IONS .....	5R01 GM20562-02	26,099
BRYSON, THOMAS A.....	SYNTHESIS, ACTIVITY AND REACTIVITY OF 9-BORASTERIODS .....	1R01 AM18802-01	28,143
BRYSON, THOMAS A.....	HARRINGTONINE AND RELATED ANTICANCER DRUG SYNTHESIS .....	5R01 CA17490-02	36,723
BRYSON, THOMAS A.....	SESQUITERPENE AND ALKALOID ANTICANCER DRUG SYNTHESIS .....	5R01 CA18349-02	22,443
DUNLAP, R BRUCE.....	THE MECHANISM OF ACTION OF THYMIDYLATE SYNTHETASE .....	5R01 CA12842-05	50,878
ELJIS, PAUL D.....	NMR STUDIES OF FOLATE-ENZYME INTERACTIONS .....	5R01 CA15645-03	52,915
FELDER, MICHAEL R.....	MALATE DEHYDROGENASE ISOZYMES IN HEPATOMA .....	5R01 CA16184-02	25,935
FISHER, RONALD R.....	MITOCHONDRIAL PYRIDINE DINUCLEOTIDE TRANSHYDROGENASE .....	5R01 GM22070-02	41,682
JAMES, ERIC.....	TRANSLATION IN VITRO OF MOLONEY LEUKEMIA VIRUS RNA .....	5R01 CA17830-02	56,199
MACON, A R.....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	1S07 RR07160-01	43,152
MISHRA, NAWIN C.....	GENETIC EFFECTS OF EXOGENOUS NUCLEIC ACIDS .....	5R01 GM21520-02	24,811
SARGENT, ROGER G.....	A STUDY ON PHYSICAL FITNESS AND INTRAOCULAR PRESSURE .....	1R01 EY01629-01A1	13,333
VODKIN, MICHAEL H.....	PRODUCTS OF THE DOUBLE-STRANDED RNA'S OF YEAST .....	5R01 GM21438-02	23,178
WATABE, NORIMITSU.....	ULTRASTRUCTURAL STUDIES OF CALCIFICATION .....	5R01 DE03424-05	48,517
WUTHIER, ROY E.....	ROLE OF MATRIX VESICLES IN CALCIFICATION .....	1R01 AM18983-01	104,204
WUTHIER, ROY E.....	CALCIFICATION OF BONE AND CARTILAGE .....	7R01 AM19161-01	18,806
ORGANIZATION TOTAL	17 639,547		
<b>ORANGEBURG</b>			
<b>SOUTH CAROLINA STATE COLLEGE ZIP CODE 29115</b>			
DATTA-GUPTA, NIRMALENDU.....	SYNTHETIC PORPHYRINS BIOCHEMICAL & BIOLOGICAL STUDIES .....	5S06 RR08060-05	72,738
ORGANIZATION TOTAL	1 72,738		
<b>SPARTANBURG</b>			
<b>INDIVIDUAL AWARD—HUDSON, MONIE S. ZIP CODE 29302</b>			
HUDSON, MONIE S.....	TREE SAP EXTRACTS FOR CANCER CHEMOTHERAPY SCREENING .....	2R01 CA12359-05	34,900
ORGANIZATION TOTAL	1 34,900		
STATE TOTAL	82 4,483,346		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>SOUTH DAKOTA</b>			
<b>BROOKINGS</b>			
<b>SOUTH DAKOTA STATE UNIVERSITY</b>	<b>ZIP CODE 57006</b>		
GRANHOLM, NELS H.....	CELL SURFACE CHANGES DURING VERTEBRATE DEVELOPMENT.....	5R01 HD06918-02	27,246
GRANHOLM, NELS H.....	IMPLANTATION FAILURE IN THE LETHAL YELLOW MOUSE.....	5R01 HD08631-02	26,062
ORGANIZATION TOTAL	2	53,308	
<b>VERMILION</b>			
<b>UNIVERSITY OF SOUTH DAKOTA</b>	<b>ZIP CODE 57069</b>		
BRADY, FRANK O.....	FUNCTION OF METALLOTHIONEIN IN HEAVY METAL METABOLISM.....	1R01 ES01288-01	63,684
BRADY, FRANK O.....	FUNCTION OF METALLOTHIONEIN IN HEAVY METAL METABOLISM.....	5R01 ES01288-02	34,606
MARSHALL, FINLEY D, JR.....	HOMOCARNOSINE METABOLISM IN BRAIN.....	5R01 NS06137-09	23,805
MARSHALL, FINLEY D, JR.....	HOMOCARNOSINE METABOLISM IN BRAIN.....	5R01 NS06137-10	24,191
NEUHAUS, OTTO W.....	CONTROL OF HEPATIC BIOSYNTHESIS OF PLASMA PROTEINS.....	5R01 AM11146-09	54,803
PEANASKY, ROBERT J.....	PURIFICATION OF PROTEINS WITH BIOLOGICAL ACTIVITY.....	5R01 AI10992-07	20,179
PEANASKY, ROBERT J.....	PURIFICATION OF PROTEINS WITH BIOLOGICAL ACTIVITY.....	5R01 AI10992-08	21,556
READ, WILLARD O.....	METABOLIC PATHWAY OF TAURINE SYNTHESIS IN HEART MUSCLE.....	1R01 HL19196-01	20,318
SMALL, GARY D.....	DNA METABOLISM IN EUKARYOTES.....	5R01 GM21095-02	26,373
THOMAS, JOHN A.....	MECHANISM OF OXIDATIVE PHOSPHORYLATION.....	1R01 GM22845-01	33,576
WELTY, JOSEPH D, JR.....	AMINO ACIDS OF CONTRACTILE PROTEINS OF FAILING HEARTS.....	3R01 HL09234-10S1	6,290
WELTY, JOSEPH D, JR.....	AMINO ACIDS OF CONTRACTILE PROTEINS OF FAILING HEARTS.....	2R01 HL09234-11	18,648
ORGANIZATION TOTAL	12	348,029	
STATE TOTAL	14	401,337	
<b>TENNESSEE</b>			
<b>KNOXVILLE</b>			
<b>INDIVIDUAL AWARD—LA BERGE, ANN F.</b>	<b>ZIP CODE 37920</b>		
LA BERGE, ANN F.....	A HISTORY OF PUBLIC HEALTH IN FRANCE, 1815-1848.....	1R01 LM02587-01	15,750
LA BERGE, ANN F.....	A HISTORY OF PUBLIC HEALTH IN FRANCE, 1815-1848.....	5R01 LM02587-02	16,300
ORGANIZATION TOTAL	2	32,050	
<b>KNOXVILLE COLLEGE</b>	<b>ZIP CODE 37921</b>		
JAMES, JESSE.....	BIOMEDICAL RESEARCH PROGRAM.....	5S06 RR08055-04	23,651
JAMES, JESSE.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	2S06 RR08055-05	100,735
ORGANIZATION TOTAL	2	124,386	
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE AT KNOXVILLE</b>	<b>ZIP CODE 37916</b>		
BAGBY, ROLAND M.....	SMOOTH MUSCLE CELL ORGANIZATION AND (CA20+) CONTROL.....	5R01 HL18077-02	37,166
BECKER, JEFFREY M.....	PEPTIDE TRANSPORT IN MICRO-ORGANISMS.....	5R01 GM22087-02	25,130
CHEN, JAMES P.....	RADIOIMMUNOASSAY OF HYPER- AND HYPOCOAGULABLE STATES.....	7R01 HL20014-01	28,983
CHERNOFF, AMOZ I.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05541-11	51,336
COGGIN, JOSEPH H.....	CHARACTERIZATION OF FETAL ANTIGENS IN TUMORS.....	5R01 CA16278-02	78,142
DANIEL, JOSEPH C, JR.....	UTERINE PROTEINS IN MAMMALIAN EMBRYOGENESIS.....	5R01 HD06226-04	52,005
FARKAS, WALTER R.....	GUANYLATION OF TRNA.....	5R01 GM20546-02	42,649
FUHR, JOSEPH E.....	SICKLE CELL ANEMIA AND HEMOGLOBIN SYNTHESIS.....	5R01 AM16610-03	38,858
GREENAWALT, JOHN W.....	MITOCHONDRIAL MAO: ROLE IN BIOGENIC AMINE METABOLISM.....	5R01 NS12747-02	60,803
JEON, KWANG W.....	ENDOSYMBIONTS AS REQUIRED CYTOPLASMIC COMPONENTS.....	5R01 GM21224-03	25,970
JONES, JIMMY B.....	HEMATOPOIETIC STUDIES OF CYCLIC NEUTROPENIA.....	5R01 HL15647-04	68,371
KITCHEN, HYRAM.....	HEME METABOLISM IN FETUSES, NEWBORN AND ADULTS.....	7R01 HD10066-01	52,065
KRAUSS, STEPHEN.....	SOUTHEASTERN CANCER STUDY GROUP.....	5R10 CA13237-05	51,427
LANGE, ROBERT D.....	CONTROL MECHANISMS OF HUMAN AND NONHUMAN HEMATOPOIESIS.....	5R01 AM18314-02	42,787
LANGE, ROBERT D.....	ERYTHROPOIETIN: IMMUNOASSAY AND CHARACTERIZATION.....	3R01 HL10567-10S2	195
LANGE, ROBERT D.....	ERYTHROPOIETIN: IMMUNOASSAY AND CHARACTERIZATION.....	5R01 HL10567-11	81,411

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TENNESSEE—Continued</b>			
LONGWORTH, JAMES W.	IMMUNOPROTEINS FROM PLASMA CELL TUMORS.....	5R01 CA15173-03	36,936
LOZZIO, BISMARCK B.	HEREDITARILY ATHYMIC-ASPLENIC MICE: TUMOR GROWTH.....	1R01 CA18185-01	68,737
MACCABE, JEFFREY A.	MECHANISMS IN EMBRYONIC LIMB MORPHOGENESIS.....	2R01 HD07282-03	52,214
MACHADO, EMILIO A.	ESTABLISHMENT OF A DIAGNOSTIC PATHOLOGY LABORATORY.....	5P40 RR00874-03	62,014
MC DONALD, TED P.	THROMBOPOIETIN: IMMUNOASSAY AND CHARACTERIZATION.....	5R01 HL14637-03	43,227
NABELEK, ANNA K.	BINAURAL HEARING AIDS IN NOISE AND REVERBERATION.....	2R01 NS12035-02	72,383
OLINS, DONALD E.	PHYSICAL PROPERTIES OF ISOLATED NUCLEI AND CHROMOSOMES.....	5R01 GM19334-04	32,680
OLINS, DONALD E.	PHYSICAL PROPERTIES OF ISOLATED NUCLEI AND CHROMOSOMES.....	5R01 GM19334-05	32,370
SLAGA, THOMAS J.	METABOLISM OF POLYCYCLIC HYDROCARBONS IN SKIN.....	7R01 CA20076-01	68,880
SMITH, HILTON A.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07088-09	50,330
SOLOMON, ALAN	PROTEINS IN MULTIPLE AND RELATED BLOOD DISEASES.....	2R01 CA10056-11	130,680
TYNDALL, RICHARD L.	GALLIUM-67 UPTAKE IN ENBRYOGENESIS AND ONCOGENESIS.....	5R01 CA18673-02	35,334
VAN HOOK, WILLIAM A.	AQUEOUS SOLVENT ISOTOPE EFFECTS; HYDROPHOBIC BONDING.....	2R01 GM19991-04	45,554
WUST, CARL J.	MYELOGENOUS LEUKEMIA-ASSOCIATED ANTIGENS.....	5R01 CA17533-02	62,143
ORGANIZATION TOTAL	30	1,530,780	
<b>MEMPHIS</b>			
<b>BAPTIST MEMORIAL HOSPITAL</b>	<b>ZIP CODE 38146</b>		
RIGHTSEL, WILTON A.	CULTIVATION STUDIES OF MYCOBACTERIUM LEPRAE.....	5R22 AI08051-08	24,232
ORGANIZATION TOTAL	1	24,232	
<b>ST. JUDE CHILDREN'S RESEARCH HOSPITAL</b>	<b>ZIP CODE 38101</b>		
ADLER, LOUISE T.	IMMUNOGLOBULIN ALLOTYPES: SUPPRESSION AND RELEASE.....	5R01 AI13159-02	45,164
AUR, RHOMES J.	COMBINATION THERAPY OF CHILDHOOD LEUKEMIA.....	5R01 CA13050-05	69,995
BRENT, THOMAS P.	THE ROLE OF A HUMAN CELL ENDONUCLEASE IN REPAIR OF DNA.....	5R01 CA14799-02	31,114
CHEUNG, WAI Y.	REGULATORY ASPECTS OF CYCLIC AMP METABOLISM IN CNS.....	2R01 NS08059-08	63,859
FISHMAN, MARVIN	ACCESSORY FUNCTIONS OF MACROPHAGES IN IMMUNOGENESIS.....	7R01 AI13180-01	67,059
FISHMAN, MARVIN	ACCESSORY FUNCTIONS OF MACROPHAGES IN IMMUNOGENESIS.....	5R01 AI13180-02	65,170
FRIDLAND, ARNOLD	DNA REPLICATION IN DRUG TREATED HUMAN LYMPHOBLASTS.....	1R01 CA18446-01A1	31,174
GANGULY, PANKAJ	PLATELET PROTEINS.....	5R01 HL15090-05	52,786
GANGULY, PANKAJ	PLATELET AGGREGATION.....	1R01 HL16720-01A2	34,307
GRANOFF, ALLAN	STUDIES ON LUCKE TUMOR ASSOCIATED VIRUSES.....	5R01 CA07055-14	185,481
GUNASEKARAN, MUTHUKUMARAN	GAS CHROMATOGRAPHY FOR DETECTION OF FUNGAL INFECTION.....	1R01 CA20917-01	42,431
JACKSON, CARL W.	EFFECTS OF ERYTHROPOIESIS ON PLATELETS AND HEMOSTASIS.....	1R01 HL19270-01	50,142
KANG, ELLEN S.	REYE'S SYNDROME: STUDIES OF MEMBRANE FUNCTION.....	5R01 HD09469-02	40,796
KINGSBURY, DAVID W.	MULTIPLICATION OF PARAMYXOVIRUSES.....	2R01 AI05343-13	95,400
MARTEN, GEORGE W.	PSYCHOLOGICAL ADAPTATIONS TO CHILDHOOD LEUKEMIA.....	5R18 CA17881-02	69,163
MAUER, ALVIN M.	CHILDHOOD CANCER RESEARCH CENTER.....	5P01 CA08480-11	1,683,287
MAUER, ALVIN M.	CHILDHOOD CANCER RESEARCH CENTER.....	5P01 CA08480-12	1,814,589
MAUER, ALVIN M.	A STUDY OF LEUKOKINETICS IN ACUTE LEUKEMIA WITH DFP32.....	5R01 CA15956-03	92,078
MAUER, ALVIN M.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05584-12	111,369
MORRISON, MARTIN	STRUCTURE AND FUNCTION OF RED CELL MEMBRANES.....	1R01 AM18106-01A1	53,389
PHILLIPS, DAVID R.	PLATELET MEMBRANE PROTEINS IN AGGREGATION.....	5R01 HL15616-02	38,935
PORTNER, ALLEN	BIOSYNTHESIS OF PARAMYXOVIRUSES.....	5R01 AI1949-02	63,721
ROBERTS, BUFORD D.	PHARMACOLOGICAL RESPONSE TO ONCOLYTIC DRUGS.....	5R01 CA12732-05	59,581
THOMAS, EDWIN L.	PEROXIDASE IN SALIVA AND PREVENTION OF ORAL DISEASE.....	1R01 DE04235-01A1	38,292
WALKER, WILLIAM S.	MACROPHAGE FUNCTIONS IN TUMORIGENESIS.....	5R01 CA16652-02	47,008
WEBSTER, ROBERT G.	STUDIES ON THE ORIGIN OF PANDEMIC INFLUENZA VIRUSES.....	5R01 AI08831-08	79,529
YEH, YU-YAN	REGULATION OF KETONE METABOLISM IN NEWBORN RATS.....	5R01 HD08568-02	37,071
ORGANIZATION TOTAL	27	5,062,890	
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES</b>	<b>ZIP CODE 38163</b>		
ARANT, BILLY S. JR.	PATTERNS OF FUNCTIONAL MATURATION: THE NEONATAL KIDNEY.....	5R01 HD09061-02	36,306
ARNESON, RICHARD M.	MEMBRANE LIPIDS IN NEUROBLASTOMA DIFFERENTIATION.....	5R01 CA16927-03	42,395
BEACHEY, EDWIN H.	MUCOSAL CELL-BINDING OF PYOGENIC BACTERIA.....	1R01 AI13550-01	38,907
BLANCHARD, EDWARD B.	BEHAVIORAL TACTICS FOR CLINICAL CARDIAC CONTROL.....	7R01 HL18814-01	30,905
BLATTES, CLARK M.	ENVIRONMENTAL STRESS AND TUMORIGENESIS.....	1R01 CA20964-01	33,559
BRADHAM, LAURENCE S.	REGULATION OF ADENYLATE CYCLASE.....	5R01 NS12122-02	31,143

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TENNESSEE—Continued</b>			
BROWN, CHARLES R.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05423-15	196,961
BROWN, FOUNTAINE C.	CYSTATHIONINE METABOLISM IN BRAIN	5R01 NS04454-14	47,314
CALDWELL, ROBERT W.	THE IMPORTANCE OF AMINOSUGARS IN DIGITALIS ACTIVITY	5R01 HL17796-02	42,738
CARDOSO, SERGIO S.	CIRCADIAN MITOTIC RHYTHM GUIDE FOR ANTIMETABOLITES	5R01 CA11332-05	33,226
CHANG, FREDERIC C.	CHEMICAL STUDY OF PLANTS OF PHARMACOLOGICAL INTEREST	2R01 CA11507-07	50,808
CHESNEY, CAROLYN M.	PLATELET COLLAGEN INTERACTION	1R01 HL18650-01	37,088
COX, CLAIR E.	NATIONAL BLADDER CANCER COLLABORATIVE GROUP A	5R26 CA15934-03	59,154
COX, CLAIR E.	CHEMOTHERAPY FOR ADVANCED PROSTATIC CANCER	1R26 CA20618-01	105,810
COX, RAY	DNA REPAIR AND CARCINOGENESIS	5R01 CA15189-03	10,443
COX, RAY	DNA REPAIR AND CARCINOGENESIS	2R01 CA15189-04	37,317
DABBOUS, MUSTAFA K.	ENZYMATIC AND IMMUNOLOGIC STUDIES OF INVASIVE TUMORS	5R01 CA15677-03	37,440
DABBOUS, MUSTAFA K.	STRUCTURAL CHANGES OF COLLAGEN IN PERIODONTAL DISEASE	5R01 DE03843-02	34,058
DABBOUS, MUSTAFA K.	GINGIVAL MATRIX PROTEINS AND PERIODONTAL DISEASE	5R01 DE04125-02	38,921
DORSETT, PRESTON H.	CHARACTERIZATION OF THE RUBELLA VIRUS PROTEINS	5R01 AI11255-03	25,710
FLEMING, IRVIN D.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA17950-02	126,221
GROSVENOR, CLARK E.	NEURAL AND HORMONAL REGULATION OF LACTATION	5R01 HD04358-17	49,452
IRVING, CHARLES C.	STUDIES ON CHEMICAL CARCINOGENESIS	5R01 CA05490-15	36,900
IRVING, CHARLES C.	BIOCHEMICAL MECHANISMS IN EXPERIMENTAL BLADDER CANCER	5R26 CA16765-03	44,573
KANG, ANDREW H.	CHEMISTRY AND BIOLOGY OF NORMAL AND ABNORMAL COLLAGENS	5R01 AM16506-04	50,424
KANG, ANDREW H.	COLLAGEN IN INTERSTITIAL FIBROSIS OF LUNG	1R01 HL19731-01	61,889
KATZE, JON R.	TRNA Q-BASE: ITS RELATION TO DIFFERENTIATION	1R01 CA20919-01	28,489
KAUMER, MICHAEL L.	PROSTAGLANDIN EFFECT ON RENAL TUBULAR FUNCTION	5R01 AM17711-02	26,578
KOSSMAN, CHARLES	CARDIOVASCULAR COMPUTER PROJECT	2P01 HL09495-15	261,152
KRAUS, ALFRED P.	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	3P60 HL15169-04S2	36,905
KRAUS, ALFRED P.	SUPPORT FOR CENTER FOR SICKLE CELL DISEASE	5P60 HL15169-05	565,670
MALIK, KAFAT U.	ANGIOTENSIN, PROSTAGLANDINS - ADRENERGIC INTERACTIONS	7R01 HL19134-01	25,331
MALIK, KAFAT U.	ANGIOTENSIN, PROSTAGLANDINS - ADRENERGIC INTERACTIONS	5R01 HL19134-02	26,617
MASI, ALFONSE T.	RHEUMATOID ARTHRITIS EXPERIMENTAL CLINICAL INVESTIGATION	5R01 AM12049-10	141,894
MASON, JAMES M.	PATHOGENESIS OF SUDDEN INFANT DEATH SYNDROME	5R01 HD07511-03	66,338
MC CALL, CHARLES B.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00211-12	445,749
MC GIFF, JOHN C.	REGULATION OF RENAL CIRCULATION AND SALT EXCRETION	5R01 HL18845-02	119,164
MIRVIS, DAVID M.	GENERATOR PROPERTIES OF ISOLATED MAMMALIAN HEARTS	2R01 HL01362-24	79,084
MORRISON, WILLIAM C.	CLINICAL CANCER-DENTAL	1R25 CA19532-01	59,365
MUIRHEAD, ERNEST E.	THE ANTIHYPERTENSIVE FUNCTION OF THE RENAL MEDULLA	1R01 HL19287-01	149,045
NASILETTI, ALBERTO	VASOACTIVE HORMONES AND BLOOD PRESSURE REGULATION	1R01 HL18579-01	60,304
NEELY, CHARLES L. JR.	SOUTHEASTERN CANCER STUDY GROUP	5R10 CA17027-02	68,848
NICKSON, JAMES J.	COMMUNITY CANCER CENTER SUPPORT GRANT (SPECIALIZED)	5P30 CA16518-02	228,121
NISHIMURA, HIROKO	COMPARATIVE STUDIES OF RENAL HANDLING OF ELECTROLYTES	5R01 AM17824-02	33,881
NISHIMURA, HIROKO	COMPARATIVE STUDIES OF RENAL HANDLING OF ELECTROLYTES	5R01 AM17824-03	29,613
OTOOLE, CAROL M.	IDENTIFICATION OF ANTIGENS SPECIFIC TO BLADDER CANCER	1R26 CA20216-01A1	130,870
PARTRIDGE, LLOYD D.	AN EXAMINATION OF DYNAMIC ASPECTS OF MOTOR CONTROL	5R01 NS08608-06	40,040
PREWITT, RUSSELL L. JR.	HEMODYNAMIC INTERACTIONS OF VASOACTIVE CHEMICALS	1R01 HL18489-01	39,966
ROBERTSON, JAMES T.	SUPPORT FOR CEREBROVASCULAR RESEARCH CENTER	5P50 NS06826-08	179,950
SABESIN, SEYMOUR M.	PATHOLOGIC EFFECTS ON CELLS OF MODIFIED LIPOPROTEINS	5R01 AM17398-04	52,307
SCHHEEL, KONRAD W.	CORONARY COLLATERAL AND PERIPHERAL VASCULATURE	3R01 HL15623-03S1	10,850
SCHNEIDER, EDWARD G.	INTRARENAL REGULATION OF SODIUM REABSORPTION	5R01 HL16658-03	43,490
SCHNEIDER, EDWARD G.	INTRARENAL REGULATION OF SODIUM REABSORPTION	5R01 HL16658-04	43,806
SHARE, LEONARD	CONTROL OF ADH SECRETION AND METABOLISM	5R01 HL12990-07	51,953
SHARE, LEONARD	ROLE OF ADH IN EXPERIMENTAL RENAL HYPERTENSION	1R01 HL19209-01	68,995
SHARMA, RAMESHWAR K.	BIOCHEMICAL CONTROL IN ADRENOCORTICAL CARCINOMA CELLS	5R01 CA16091-02	62,327
SILVERBLATT, FREDRIC J.	ROLE OF PILI IN GENITOURINARY TRACT INFECTIONS	5R01 AM17991-02	12,523
SOLOMON, SOLOMON S.	DYNAMIC ASPECTS OF ADIPOSE TISSUE METABOLISM	5R01 AM18022-02	31,420
SOLOWAY, MARK S.	EXPERIMENTAL CHEMOTHERAPY OF MURINE BLADDER CANCER	5R26 CA18643-02	37,668
STILES, ROBERT N.	MOTOR CONTROL SYSTEM	5R01 NS08692-07	23,097
STILES, ROBERT N.	MOTOR CONTROL SYSTEM	5R01 NS08692-08	22,733
STOLLERMAN, GENE H.	STREPTOCOCCAL IMMUNITY, RHEUMATIC FEVER AND NEPHRITIS	5R01 AI10085-12	94,703
STOLLERMAN, GENE H.	STREPTOCOCCAL IMMUNITY, RHEUMATIC FEVER AND NEPHRITIS	2R01 AI10085-13	141,628
STRIVE, WILLIAM G.	ACETYLCHOLINESTERASE, ORIENTATION ON PLASMA MEMBRANES	2R01 NS09564-05	39,258
TERRAGNO, NORBERTO A.	UTERINE PROSTAGLANDINS AND CIRCULATORY REGULATION	7R01 HL19228-01	50,879
WOOD, JOHN G.	LOCATION AND FUNCTION OF CARBOHYDRATES IN THE BRAIN	1R01 NS12590-01	39,530



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TENNESSEE—Continued</b>			
WRIGHT, ALLEN K.....	SIZE AND SHAPE DETERMINATION OF RHODOPSIN IN SOLUTION.....	1R01 EY01701-01	54,006
ORGANIZATION TOTAL	67 5,113,849		
<b>NASHVILLE</b>			
FISK UNIVERSITY	ZIP CODE 37203		
HULL, GEORGE.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08062-05	78,510
ORGANIZATION TOTAL	1 78,510		
GEORGE PEABODY COLLEGE FOR TEACHERS	ZIP CODE 37203		
BAUMEISTER, ALFRED A.....	STIMULUS FACTORS IN VERBAL LEARNING OF RETARDATES.....	1R01 HD10662-01	78,894
HAYWOOD, H CARL.....	RESEARCH PROGRAM ON RETARDED INTELLECTUAL DEVELOPMENT.....	5P01 HD00973-13	462,599
HAYWOOD, H CARL.....	RESEARCH CENTER—HUMAN DEVELOPMENT & MENTAL RETARDATION.....	5P30 HD04510-08	367,349
HAYWOOD, H CARL.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07087-11	50,090
ORGANIZATION TOTAL	4 958,932		
MEHARRY MEDICAL COLLEGE	ZIP CODE 37208		
ARINZE, IFEANYI J.....	DEVELOPMENT OF CARBOHYDRATE & LIPID METABOLISM IN LIVER.....	5R01 HD08792-02	25,248
ARINZE, IFEANYI J.....	DEVELOPMENT OF CARBOHYDRATE & LIPID METABOLISM IN LIVER.....	5R01 HD08792-03	27,721
BOLDEN, THEODORE E.....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA19162-01	44,734
DAS, SALIL K.....	NUTRITION AND LIPIDS OF ORAL TISSUES.....	3R01 DE03191-04S1	11,885
HOLLETT, CHARLOTTE R.....	AN INHIBITOR OF FREE FATTY ACID MOBILIZATION.....	5R01 HL18811-02	7,188
JACKSON, JULIUS H.....	COMMON POINTS REGULATING ENZYME BIOSYNTHESIS.....	5R01 GM20880-03	22,071
JOHNSON, CHARLES W.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR07167-01	24,397
LOWE, JAMES U.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05422-15	52,985
NAVALKAR, RAMCHANDRA G.....	IMMUNOLOGIC STUDIES ON LEPROSY.....	5R22 AI08647-09	40,887
RICHARDSON, ELISHA R.....	GROWTH AND DEVELOPMENT OF THE HUMAN HEAD.....	3R01 DE02862-10S1	43,750
RICHARDSON, ELISHA R.....	GROWTH AND DEVELOPMENT OF THE HUMAN HEAD.....	2R01 DE02862-11	142,486
RUSSELL, JAMES D.....	KELOIDS: AN IN VITRO MODEL OF TUMOR GROWTH REGULATION.....	5R01 CA17229-02	70,526
TOWNSEL, JAMES G.....	SYNAPTIC CHEMISTRY AND CARDIOREGULATION IN LIMULUS.....	5R01 HL17370-02	54,620
TOWNSEL, JAMES G.....	DEVELOPMENT AND EXPANSION OF BIOMEDICAL SCIENCES.....	5S06 RR08037-05	121,933
WALKER, MATTHEW.....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA19425-01	79,380
ORGANIZATION TOTAL	15 769,811		
TENNESSEE STATE UNIVERSITY	ZIP CODE 37203		
WOOD, HENDERSON K.....	A BIOMEDICAL RESEARCH PROGRAM WITH STUDENT PARTICIPATION.....	5S06 RR08092-02	128,490
WOOD, HENDERSON K.....	A BIOMEDICAL RESEARCH PROGRAM WITH STUDENT PARTICIPATION.....	5S06 RR08092-03	132,432
ORGANIZATION TOTAL	2 260,922		
VANDERBILT UNIVERSITY	ZIP CODE 37240		
ANDREWS, JOHN S.....	AQUEOUS CHOLESTEROL AND EYE TISSUE INTERACTION.....	3R01 EY00048-05S3	12,347
BASS, ALLAN D.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00095-16	1,217,929
BOERTH, ROBERT C.....	DEVELOPMENTAL ASPECTS OF CARDIOVASCULAR FUNCTION.....	5R01 HL17629-02	51,058
BRADY, ROBERT N.....	STUDIES OF ACETYLCHOLINE RECEPTOR PROTEIN.....	5R01 NS11439-02	65,765
BRIGHAM, KENNETH L.....	PATHOGENESIS OF INCREASED LUNG VASCULAR PERMEABILITY.....	5R01 HL18210-02	67,742
BRIGHAM, KENNETH L.....	TRANSVASCULAR TRANSPORT IN THE LUNG CIRCULATION.....	5R01 HL18261-02	36,738
BROQUIST, HARRY P.....	LYSINE METABOLISM IN FUNGI.....	5R01 AM14338-08	48,405
BROQUIST, HARRY P.....	DIETARY LYSINE AND CARNITINE FORMATION.....	5R01 AM16019-05	96,750
BROWN, JOEL E.....	VISUAL RECEPTOR POTENTIALS.....	3R01 EY00834-04S1	4,269
BROWN, JOEL E.....	VISUAL RECEPTOR POTENTIALS.....	2R01 EY00834-05	7,923
BROWN, JOEL E.....	ANATOMY AND PHYSIOLOGY OF VISION.....	5R01 EY00835-05	5,546
BURR, IAN M.....	CNS, AUTONOMIC NS, B CELL FUNCTION AND VIABILITY.....	5R01 AM15269-05	47,819
BURR, IAN M.....	CNS, AUTONOMIC NS, B CELL FUNCTION AND VIABILITY.....	5R01 AM15269-06	51,004
BUSH, MILTON T.....	METABOLIC INTERACTION OF DRUGS.....	5R01 NS03534-15	92,857
BUSH, MILTON T.....	METABOLIC INTERACTION OF DRUGS.....	5R01 NS03534-16	104,340
CAMPBELL, ERNEST Q.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07089-11	53,640
CARTER, CLINT E.....	ISOLATION AND PURIFICATION OF S. MANSONI EGGS.....	1R22 AI12996-01	32,143
CASAGRANDE, VIVIEN A.....	EFFECTS OF VISUAL DEPRIVATION IN PRIMATES.....	1R01 EY01778-01	67,200
CHIU, JEN-FU.....	MOLECULAR MECHANISMS IN LARGE BOWEL CARCINOGENESIS.....	1R26 CA18668-01	101,256

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TENNESSEE—Continued</b>			
CHYTIL, FRANK.....	NUTRITIONAL ASPECTS OF PURINE METABOLISM.....	5R01 HD05384-05	56,113
CHYTIL, FRANK.....	VITAMIN A IN GROWTH AND DEVELOPMENT.....	5R01 HD09195-02	66,952
CHYTIL, FRANK.....	LUNG HORMONAL AND CHROMOSOMAL REGULATION.....	3R01 HL15341-03S1	25,008
CHYTIL, FRANK.....	LUNG HORMONAL AND CHROMOSOMAL REGULATION.....	2R01 HL15341-04	46,707
COHEN, STANLEY.....	EPIDERMAL GROWTH FACTOR.....	5R01 HD00700-13	85,541
COLLEY, DANIEL G.....	IMMUNOLOGIC RESPONSES TO SCHISTOSOMA MANSONI.....	2R22 AI11289-04	50,425
COLOWICK, SIDNEY P.....	ENZYMATIC OXIDATION AND PHOSPHORYLATION.....	5R01 GM20656-18	68,396
COLOWICK, SIDNEY P.....	ENZYMATIC OXIDATION AND PHOSPHORYLATION.....	5R01 GM20656-19	86,883
CONIGLIO, JOHN G.....	BIOSYNTHESIS AND INTERCONVERSIONS OF FATTY ACIDS.....	5R01 AM06483-13	31,329
CONIGLIO, JOHN G.....	COMPOSITION AND METABOLISM OF LIPIDS OF HUMAN TESTES.....	5R01 HD06070-05	47,191
CONIGLIO, JOHN G.....	LIPID CHEMISTRY AND METABOLISM IN REPRODUCTIVE TISSUE.....	5R01 HD07694-04	44,619
CORBIN, JACKIE D.....	REGULATION OF METABOLISM BY CAMP-DEPENDENT KINASES.....	5R01 AM15988-05	43,090
CROFFORD, OSCAR B.....	SUPPORT FOR DIABETES-ENDOCRINOLOGY CENTER.....	5P30 AM17026-03	512,011
CROFFORD, OSCAR B.....	SUPPORT FOR DIABETES-ENDOCRINOLOGY CENTER.....	5P30 AM17026-04	548,191
CUNNINGHAM, LEON W.....	THE GLYCOPOLYMER REGIONS OF COLLAGEN.....	5R01 AM11821-08	44,119
DANZO, BENJAMIN J.....	ENDOCRINE REGULATION OF EPIDIDYMAL FUNCTION.....	5R01 HD08295-02	54,396
DAVIES, JACK.....	ENDOMETRIAL-BLASTOCYST INTERRELATIONSHIP.....	5R01 HD05154-05	40,958
DES PREZ, ROGER M.....	PLATELET INJURY IN INFECTIOUS AND ALLERGIC DISEASES.....	5R01 HL08399-13	55,606
DETBARN, WOLF D.....	NERVE-MUSCLE INTERACTIONS IN EXPERIMENTAL MYOPATHIES.....	5R01 NS12438-02	103,751
DISABATO, GIOVANNI.....	LYMPHOCYTE FACTOR IN NORMAL AND LEUKEMIC MICE.....	5R01 CA16500-02	15,251
ELLIOTT, JAMES H.....	STUDIES OF OCULAR HYPERSENSITIVITY.....	5R01 EY00344-09	40,448
ENGEL, ERIC.....	MULTIDISCIPLINARY INTEGRATION IN BIRTH DEFECT STUDIES.....	1P20 HD10704-01	36,155
EXTON, JOHN H.....	HEPATIC METABOLISM IN DIABETES AND OBESITY.....	5R01 AM16129-03	53,513
EXTON, JOHN H.....	ALPHA-ADRENERGIC CONTROL OF LIVER METABOLISM.....	1R01 AM18660-01	41,119
FLEISCHER, BECCA C.....	THE ROLE OF GOLGI APPARATUS IN KIDNEY CELLS.....	5R01 AM17223-03	61,173
FLEISCHER, SIDNEY.....	MEMBRANES AND ORGANELLES - STRUCTURE AND FUNCTION.....	5R01 AM16432-13	142,854
FOSTER, JOHN H.....	SPECIALIZED CENTER OF RESEARCH IN HYPERTENSION.....	2P50 HL14192-06	878,430
FOX, ROBERT.....	THE SUPPRESSION MECHANISM IN BINOCULAR RIVALRY.....	5R01 EY00590-13	42,772
FOX, ROBERT.....	STEREOSCOPIC VISION IN ANIMALS.....	2R01 EY00931-04	20,785
FREDRIKSEN, DIXIE W.....	ATHEROSCLEROSIS AND THE ARTERIAL CONTRACTILE PROTEINS.....	1R01 HL18516-01	59,877
FREEMAN, JOHN A.....	OPTIC TECTUM: A COMBINED STRUCTURAL & FUNCTIONAL STUDY.....	3R01 EY01117-03S1	4,182
FREEMAN, JOHN A.....	SYNAPTIC ORGANIZATION OF THE OPTIC TECTUM.....	2R01 EY01117-04	38,164
GARBERS, DAVID L.....	REGULATION OF SPERM CYCLIC NUCLEOTIDE METABOLISM.....	1R01 HD10254-01	58,425
GRAHAM, THOMAS P, JR.....	QUANTITATIVE ANALYSIS OF RIGHT HEART FUNCTION.....	5R01 HL14454-05	53,099
HARDMAN, JOEL G.....	ROLE OF CYCLIC GMP: CONTROL OF CYCLIC GMP METABOLISM.....	5R01 GM16811-07	102,142
HARDMAN, JOEL G.....	THE ROLE OF CYCLIC NUCLEOTIDES IN VASCULAR TISSUE.....	5R01 HL13996-05	41,464
HARRIS, THOMAS M.....	TETRACYCLINES AND RELATED PHENOLIC NATURAL PRODUCTS.....	5R01 GM12848-12	45,686
HARRIS, THOMAS R.....	CORONARY CAPILLARY EXCHANGE: THE EFFECTS OF ISCHEMIA.....	1R01 HL19370-01	65,830
HARSHMAN, SIDNEY.....	GLYCOPROTEIN AGGLUTININS OF NORMAL & TRANSFORMED CELLS.....	5R01 CA17050-03	49,628
HASH, JOHN H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05424-15	261,305
HAWIGER, JACK J.....	INFECTIONS & COAGULATION: CELLULAR & HUMORAL FACTORS.....	5R01 HL16646-03	61,503
HELLERQVIST, CARL G.....	ANALYSIS OF EUKARYOTIC CELL SURFACES.....	5R01 CA16865-02	51,583
HNILICA, LUBOMIR S.....	PROTEINS OF THE CELL NUCLEUS.....	5R01 CA18389-02	85,683
HOFFMAN, LOREN H.....	UTERINE AND PLACENTAL CONTROL OF LUTEAL FUNCTION.....	5R01 HD05942-05	46,995
INAGAMI, TADASHI.....	RENIN: PURIFICATION, CHARACTERIZATION AND ASSAY.....	5R01 HL16114-03	49,148
JENKINS, DAVID E, JR.....	HUMAN RED CELL ANTIBODY AND COMPLEMENT INTERACTIONS.....	5R01 HL18816-04	53,590
JOHNSON, ROGER A.....	REGULATION OF ADENYLATE CYCLASE & CAMP METABOLISM.....	5R01 AM18185-02	43,631
JONES, MARK M.....	POSSIBLE NEW ANTIDOTES FOR MERCURY POISONING.....	5R01 ES01018-02	70,066
KAAS, JON H.....	VISUAL ASSOCIATION CORTEX.....	5R01 NS12377-02	44,268
KAPLAN, ALBERT S.....	METABOLISM OF CELLS INFECTED WITH NUCLEAR DNA VIRUSES.....	2R01 AI10947-05	213,183
KONO, TETSURO.....	ACTION OF INSULIN ON CELL MEMBRANE.....	5R01 AM06725-15	58,054
KRANTZ, SANFORD B.....	ERYTHROPOIETIN AND THE REGULATION OF ERYTHROPOIESIS.....	5R01 AM15555-05	92,797
LANDON, ERWIN J.....	RESPONSIVENESS OF VASCULAR SMOOTH MUSCLE.....	5R01 HL14681-02	103,079
LEMBACH, KENNETH J.....	GROWTH STIMULATION OF CULTURED ANIMAL CELLS.....	5R01 CA12810-05	59,447
LERMAN, LEONARD S.....	DNA-PROTEIN INTERACTIONS AND CHROMOSOME STRUCTURE.....	3R01 GM13767-10S1	21,522
LIDDLE, GRANT W.....	PITUITARY-ADRENAL PHYSIOLOGY AND PHARMACOLOGY.....	5R01 AM05318-15	114,455
LILJENQUIST, JOHN E.....	GLUCONEOGENESIS: ITS ROLE AND REGULATION.....	5R01 AM18243-02	104,134
MC GEE, ZELL A.....	PATHOGENIC MECHANISMS IN GONOCOCCAL INFECTIONS.....	1R01 AI13488-01	95,716
MC KANNA, JAMES A.....	MODIFIED (COATED) MEMBRANES: STRUCTURE AND COMPOSITION.....	1R01 GM23708-01	44,333
MENG, H C.....	ESSENTIAL FATTY ACID DEFICIENCY IN MAN AND ANIMAL.....	5R01 AM18281-02	214,111

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TENNESSEE—Continued</b>			
MENG, H C.....	LIPOLYTIC ENZYMES OF PLASMA AND TISSUES.....	5R01 HL04372-16	92,868
MITCHELL, WILLIAM M.....	HUMAN PROCOLLAGEN STRUCTURE AND FUNCTION.....	5R01 AM18222-02	49,244
MOSIG, GISELA.....	DNA REPLICATION AND RECOMBINATION IN BACTERIOPHAGE.....	5R01 GM13221-11	57,713
MOSIG, GISELA.....	DNA REPLICATION AND RECOMBINATION IN BACTERIOPHAGE.....	5R01 GM13221-12	77,956
NEAL, ROBERT A.....	A STUDY OF THIAMINE METABOLISM IN MAMMALS.....	5R01 AM10297-10	32,909
NEAL, ROBERT A.....	ENZYMIC MECHANISMS OF INSECTICIDE METABOLISM.....	5R01 ES00075-12	42,335
NEAL, ROBERT A.....	CENTER IN ENVIRONMENTAL TOXICOLOGY.....	5P30 ES00267-09	483,261
NICHOLDS, GEORGE E.....	INTRAVENOUS REQUIREMENTS FOR MICRONUTRIENTS.....	1R01 AM18724-01	98,765
NUNNALLY, JUM C.....	MEANING-PROCESSING OF VISUAL DISPLAYS.....	5R01 HD09337-02	49,211
O'DAY, DENIS M.....	STUDIES IN EXPERIMENTAL FUNGAL ENDOPHTHALMITIS.....	1R01 EY01621-01	56,495
OATES, JOHN A.....	RENAL PROSTAGLANDINS: SYNTHESIS AND FUNCTION.....	5R01 HL16489-02	115,788
ORGBIN-CRIST, MARIE.....	MALE REPRODUCTIVE PHYSIOLOGY.....	5R01 HD03820-08	84,814
ORGBIN-CRIST, MARIE.....	CENTER FOR POPULATION AND REPRODUCTIVE BIOLOGY RESEARCH.....	5P30 HD05797-05	146,477
ORTH, DAVID N.....	TUMOR CELL SYNTHESIS & SECRETION OF PEPTIDE HORMONES.....	2R01 CA11685-07	88,487
ORTH, DAVID N.....	CLINICAL CANCER EDUCATION PROGRAM.....	1R25 CA19429-01	134,011
PAGE, DAVID L.....	CHEMICAL DEFINITION OF AMYLOID IN ENDOCRINE TUMORS.....	5R01 CA16547-02	44,342
PAGE, DAVID L.....	CHEMICAL DEFINITION OF AMYLOID IN ENDOCRINE TUMORS.....	5R01 CA16547-03	46,592
PARK, CHARLES R.....	HORMONAL REGULATION OF METABOLISM.....	2P01 AM07462-13	346,430
PARK, JANE H.....	STUDIES ON 3-PHOSPHOGLYCERALDEHYDE DEHYDROGENASE.....	2R01 GM07884-15	71,185
PATTON, JAMES A.....	AN EVALUATION OF XRF SCANNING IN THYROID DISEASE.....	5R01 AM17484-03	10,630
PIKUS, SIMON J.....	CONTROL OF ION FLUXES AND GLUCONEOGENESIS IN LIVER.....	5R01 AM18270-02	62,344
POST, ROBERT L.....	THE ION-PUMP IN THE ERYTHROCYTE.....	5R01 HL01974-22	102,076
PUETT, J DAVID.....	STRUCTURE AND METABOLISM OF PITUITARY HORMONES.....	5R01 AM15838-05	80,820
RABINOWITZ, DAVID.....	PITUITARY-GONADAL PHYSIOLOGY AND PHARMACOLOGY.....	1R01 HD10128-01	84,519
REGEN, DAVID M.....	GLUCOSE-TRANSPORT REGULATION IN THYMOCYTES.....	1R01 AM18733-01	51,963
ROBINSON, JOHN P.....	THE AMINO ACID SEQUENCE OF TETANUS TOXIN.....	5R01 AI12750-02	76,171
ROSENTHAL, RONALD E.....	STUDIES OF THE SYNOVAL RESPONSE TO ACUTE TRAUMA.....	5R01 AM17475-03	37,835
SASTRY, B V RAMA.....	CHOLINERGIC SYSTEM, PLACENTAL TRANSPORT AND FETAL GROWTH.....	5R01 HD08561-02	46,856
SASTRY, B V RAMA.....	BIOLOGICAL SIGNIFICANCE OF CHOLINE ESTERS OTHER THAN ACH.....	5R01 NS04699-11	65,309
SODERLUNG, THOMAS R.....	REGULATION OF PHOSPHOPROTEIN PHOSPHATASES.....	5R01 AM17808-02	39,699
SOUPART, PIERRE.....	MALIGNANCY IN MOUSE GERM CELL - CANCER CELL HYBRIDS.....	5R01 CA14953-03	51,272
SOUPART, PIERRE.....	CYTOGENETICS OF HUMAN PREIMPLANTATION EMBRYOS.....	5R01 HD08837-02	69,484
STAHLMAN, MILDRED T.....	NEONATAL LUNG CENTER.....	3P50 HL14214-05S2	437,266
STAHLMAN, MILDRED T.....	NEWBORN LUNG CENTER FOR HYALINE MEMBRANE DISEASE.....	2P50 HL14214-06	575,751
STOLTZFUS, CONRAD M.....	SUBUNIT STRUCTURE AND FUNCTION OF ONCORNAVIRUS RNA.....	5R01 CA16262-02	57,473
TOUSTER, OSCAR.....	BIOCHEMICAL STUDIES ON LYSOSOMES AND RELATED ENZYMES.....	5R01 CA07489-13	73,159
WAGNER, CONRAD.....	TISSUE STORES OF FOLATE: DIETARY CONTROL AND ASSAY.....	5R01 AM15289-02	34,635
WELLS, JACK N.....	TISSUE SPECIFIC INHIBITORS OF PHOSPHODIESTERASE.....	5R01 GM21220-02	37,028
WELLS, JACK N.....	PHOSPHODIESTERASE INHIBITION AND MUSCLE CONTRACTION.....	1R01 HL19325-01	31,398
WILLIAMS, ROBLEY C, JR.....	SUBUNIT ASSOCIATION OF HUMAN HEMOGLOBINS.....	7R01 HL20873-01	49,697
WILSON, BENJAMIN J.....	FUNGUS TOXINS AND MOLDY FOOD DISEASES.....	5R01 ES00569-11	47,972
WILSON, FREDERICK A.....	A PATHOPHYSIOLOGIC APPROACH TO THE DIARRHEAL STATES.....	5R01 AM18525-02	45,020
WILSON, JOHN T.....	STUDIES ON DRUG HYDROXYLATION.....	5R01 GM21949-02	66,922
ORGANIZATION TOTAL	122	12,270,339	
<b>OAK RIDGE</b>			
<b>OAK RIDGE ASSOCIATED UNIVERSITIES      ZIP CODE 37830</b>			
GENGOZIAN, NAZARETH.....	'AUTOIMMUNE' THROMBOCYTOPENIA.....	5R01 HL16757-02	87,331
HAYES, RAYMOND L.....	CONCENTRATION OF RADIONUCLIDES BY MALIGNANT NEOPLASMS.....	2R01 CA11858-07	104,128
HAYES, RAYMOND L.....	ORAU-ORNL STUDY OF CARBON-11 IN NUCLEAR MEDICINE.....	5R01 CA14669-03	441,967
LITTLEFIELD, L GAYLE.....	EVALUATION OF INDUCED CYTOGENETIC LESIONS IN OOCYTES.....	5R01 HD08828-02	85,770
LUSHBAUGH, CLARENCE C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05746-04	58,052
SNYDER, FRED L.....	ETHER LIPIDS IN CANCER-ENZYME MECHANISMS & INHIBITORS.....	5R01 CA11949-07	63,429
SNYDER, FRED L.....	SURFACTANT METABOLISM: ALVEOLAR CELLS & LUNG DISEASE.....	5R01 HL18181-02	63,927
WYKLE, ROBERT L.....	LYSOPHOSPHOLIPASE D IN TUMORS AND OTHER TISSUES.....	5R01 CA17295-02	58,778
ORGANIZATION TOTAL	8	963,382	
STATE TOTAL	281	27,190,083	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS</b>			
<b>ARLINGTON</b>			
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT ARLINGTON		ZIP CODE 76010	
BROWN, KENNETH L.	MECHANISM OF B12-MEDIATED METHYL TRANSFER REACTIONS.....	1R01 GM23215-01	31,824
ORGANIZATION TOTAL	1 31,824		
<b>AUSTIN</b>			
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN		ZIP CODE 78712	
ACOSTA, DANIEL, JR.	ISCHEMIC MYOCARDIAL INJURY IN CULTURED HEART CELLS.....	1R01 HL18647-01	16,368
ACOSTA, DANIEL, JR.	ISCHEMIC MYOCARDIAL INJURY IN CULTURED HEART CELLS.....	5R01 HL18647-02	16,141
BAKER, LEE E.	QUANTIFICATION OF INTRATHORACIC FLUID BY IMPEDANCE.....	7R01 HL19678-01	30,576
BEAN, FRANK D.	COUPLE DECISION MAKING FOR STERILIZATION.....	1R01 HD10678-01	25,335
BERRY, L. JOE.	RETICULOENDOTHELIAL INVOLVEMENT IN ENDOTOXEMIC EFFECTS.....	2R01 AI10087-07	40,583
BERRY, L. JOE.	IMMUNITY TO CHOLERA.....	5R22 AI10466-05	41,111
BITTNER, GEORGE D.	DEGENERATION-REGENERATION OF NEURONAL CONNECTION.....	5R01 NS11861-02	44,399
BITTNER, GEORGE D.	DEGENERATION-REGENERATION OF NEURONAL CONNECTION.....	5R01 NS11861-03	42,796
BOSE, HENRY R.	SUPERINFECTION EXCLUSION IN RNA ANIMAL VIRUSES.....	5R01 AI11996-03	40,497
BOSE, HENRY R.	BIOLOGY OF THE RETICULOENDOTHELIOSIS VIRUS GROUP.....	5R01 CA16329-03	52,940
BROWN, JAMES R.	STUDIES ON PRIMARY AND TERTIARY STRUCTURE OF PROTEINS.....	5R01 HD02899-09	46,604
BROWNING, HARLEY L.	POPULATION RESEARCH CENTER.....	5P30 HD06160-05	84,975
BROWNING, HARLEY L.	POPULATION RESEARCH CENTER.....	2P30 HD06160-06	141,241
CHARNES, A.	COSTS AND THEIR ASSESSMENT TO USERS IN A MEDICAL LIBRARY.....	5R01 LM02333-02	112,456
CONROY, MICHAEL E.	MACROECONOMIC SIMULATION OF MIGRATION AND DEVELOPMENT.....	5R01 HD08710-02	12,345
DILLER, KENNETH R.	THERAPEUTIC EFFECTIVENESS OF POST BURN COOLING.....	1R01 GM22693-01	41,179
EBERHART, ROBERT C.	ANALYSIS OF BLOOD TRAUMA FROM MICROPOROUS OXYGENATIONS.....	1R01 HL19173-01	73,909
FOLKERS, KARL	TUMOR INHIBITION BY PROLACTIN INHIBITING HORMONE.....	2R01 CA14200-04	47,620
FOLKERS, KARL	BIOLOGICAL INVESTIGATIONS OF SUBSTANCE P.....	1R01 HL18993-01	49,896
FOX, J. LAWRENCE	FLAVODOXIN REACTION MECHANISMS.....	5R01 GM21688-02	35,327
FREEMAN, GARY L.	THE ROLE OF EGG ORGANIZATION DURING EARLY DEVELOPMENT.....	2R01 GM20024-03	31,033
FRISBIE, W. PARKER	MARITAL INSTABILITY AMONG MEXICAN AMERICANS.....	1R01 HD09908-01	50,549
GESTRIN, PHYLLIS J.	NEURAL CONTROL OF EYE MOVEMENTS.....	5R01 EY01506-02	49,157
GIBSON, DAVID T.	MICROBIAL DEGRADATION OF CARCINOGENIC HYDROCARBONS.....	1R01 CA19078-01	53,086
GIBSON, DAVID T.	ENZYMATIC OXYGEN FIXATION INTO AROMATIC HYDROCARBONS.....	5R01 ES00537-06	35,806
HACKERT, MARVIN L.	STRUCTURE AND FUNCTION OF SUPRA-MOLECULAR ASSEMBLAGES.....	1R01 GM23306-01	52,636
HAMILTON, TERRELL H.	CONTROL MECHANISMS IN REPRODUCTION.....	5P50 HD03803-08	412,222
HARDESTY, BOYD A.	PROTEIN SYNTHESIS IN RETICULOCYTES AND LEUKEMIC CELLS.....	5R01 CA16608-02	66,640
HATCH, THOMAS P.	ATTACHMENT, PENETRATION, AND GROWTH OF CHLAMYDIAE.....	1R01 AI13417-01	47,426
HIRAZUMI, YUICHIRO	MALE RECOMBINATION-MUTATOR SYSTEM IN DROSOPHILA.....	2R01 GM19770-04	77,849
JESPERSEN, NEIL D.	THERMOMETRIC METHODS OF CLINICAL ANALYSIS.....	5R01 GM19651-03	17,419
LARIMER, JAMES L.	NEURAL BASIS OF BEHAVIOR.....	5R01 NS05423-12	54,624
LARIMER, JAMES L.	NEURAL BASIS OF BEHAVIOR.....	5R01 NS05423-13	51,677
LONGENECKER, JOHN B.	PLASMA AMINO ACID METHOD TO ASSESS AMINO ACID NEEDS.....	5R01 AM16836-03	35,150
MABRY, TOM J.	THE FUNCTION AND SYSTEMATIC ROLE OF NATURAL PRODUCTS.....	2R01 HD04488-12	47,342
MAGUIRE, MARJORIE P.	CHROMOSOME STRUCTURES AND MEIOTIC MECHANISMS.....	2R01 GM19582-04	12,591
MANDY, WILLIAM J.	STUDIES WITH ANTIGLOBULIN ANTIBODIES.....	5R01 AI07184-11	78,666
MC FADDEN, DENNIS	PSYCHOPHYSICS OF BINAURAL HEARING.....	2R01 NS08754-07	80,967
MYERS, JACK E.	METABOLIC CONTROLS IN LIGHT-DRIVEN METABOLISM.....	5R01 GM11300-13	37,986
PARKER, CHARLOTTE D.	STUDY OF PATHOGENIC MECHANISMS OF VIBRIO CHOLERAE.....	1R22 AI12819-01A1	74,474
PARKER, CHARLOTTE D.	NEW APPROACHES TO PERTUSSIS VACCINE.....	1R01 AI12955-01	42,572
PAVAN, CRODOWALDO	CHROMOSOME AND GENE ACTIVITY IN SCIARIDAE.....	5R01 GM19331-03	47,939
PEREZ-POLO, JOSE R.	NEURAL DIFFERENTIATION: NERVE GROWTH FACTOR PROTEINS.....	2R01 NS11211-04	52,707
POWERS, EDWARD L.	PHYSICOCHEMICAL STUDIES OF RADIATION EFFECTS IN CELLS.....	2R01 GM13557-10	79,974
POWERS, EDWARD L.	CENTER FOR FAST KINETICS RESEARCH.....	5P41 RR00886-02	189,633
RAVEL, JOANNE M.	FACTORS CONTROLLING PROTEIN BIOSYNTHESIS.....	5R01 GM18775-05	42,808
REED, LESTER J.	BIOCHEMISTRY OF ACID DEHYDROGENASE COMPLEXES.....	2R01 GM06590-17	96,884
REED, LESTER J.	BIOCHEMISTRY OF ACID DEHYDROGENASE COMPLEXES.....	5R01 GM06590-18	108,408
RICHARDSON, RICHARD H.	DNA AND KARYOTYPIC STUDIES OF DROSOPHILA GENOMES.....	5R01 GM19616-04	56,650
RICHARDSON, RICHARD H.	DNA AND KARYOTYPIC STUDIES OF DROSOPHILA GENOMES.....	5R01 GM19616-05	68,220

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
RICHARDSON, RICHARD H.	SUPPORT FOR COLLECTION OF DROSOPHILA SPECIES	5P40 RR00729-04	84,048
RIGGS, AUSTEN F. II.	STRUCTURAL BIOCHEMISTRY OF HEMOGLOBINS	1R01 GM21314-01A2	79,709
ROBERTUS, JON D.	X-RAY STRUCTURE ANALYSIS OF AN ANTIVIRAL PROTEIN	1R01 AI13584-01	58,309
RUBIN, ARNOLD S.	T CELL REGULATION OF THE HUMORAL IMMUNE RESPONSE	5R01 AI12752-02	43,594
SANDERS, BOB G.	CHICKEN IMMUNOGLOBULINS—COMPLEXITY AND EVOLUTION	5R01 AI09533-06	29,007
SANDERS, BOB G.	EMBRYONIC & VIRALLY INDUCED TUMOR-CELL MEMBRANE ANTIGENS	5R01 CA12851-05	34,371
SMITH, ROBERT V.	METABOLISM OF APOMORPHINE AND ITS ANALOGS	3R01 NS12259-01S1	4,887
SMITH, ROBERT V.	METABOLISM OF APOMORPHINE AND ITS ANALOGS	2R01 NS12259-02A1	52,616
SNELL, ESMOND E.	NUTRITION AND METABOLISM OF MICROORGANISMS	7R01 AI13940-01	62,564
SNELL, ESMOND E.	CATALYTIC FUNCTIONS AND METABOLISM OF VITAMIN B6	7R01 AM19898-01	18,558
SUMMERS, MAX D.	BACULOVIRUS STRUCTURE AND PATHOGENIC MECHANISMS	2R01 AI09765-07	37,075
SUSSMAN, HARVEY M.	DYNAMIC PROPERTIES OF SPEECH SENSORIMOTOR SYSTEMS	2R01 NS10654-02A1	83,472
SUTTON, H. ELDON.	GENETIC AND CHEMICAL STUDIES OF PROTEIN VARIATIONS	5R01 GM09326-15	103,100
SUTTON, H. ELDON.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07091-11	136,156
TAYLOR, H. LYNDON.	INTRACRANIAL PRESSURE MEASUREMENT SYSTEM: PART I.	5R01 NS12139-02	19,270
THOMPSON, GUY A. JR.	THE BIOCHEMISTRY OF MEMBRANE ASSEMBLY AND STABILITY	5R01 GM20148-03	27,883
WADE, CHARLES G.	NMR RELAXATION OF LIQUID CRYSTAL SYSTEMS	5R01 HL12528-08	28,624
WAGNER, ROBERT P.	STUDIES IN BIOCHEMICAL GENETICS	5R01 GM12323-12	79,100
WALKER, JAMES R.	REGULATION OF BACTERIAL CELL DIVISION	5R01 AI08286-08	51,916
WELCH, ASHLEY J.	OCULAR DAMAGE DUE TO RETINAL TEMPERATURE RISE	5R01 EY01162-03	43,733
WISSLER, EUGENE H.	AEROSOL GROWTH IN THE RESPIRATORY SYSTEM	1R01 HL19722-01	43,173
ORGANIZATION TOTAL	71	4,270,558	
<b>COLLEGE STATION</b>			
<b>TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY</b>		<b>ZIP CODE 77843</b>	
BATES, GEORGE W.	ERYTHROFERRIN AND ITS ROLE IN HEMOGLOBIN SYNTHESIS	5R01 AM17790-02	14,886
BATES, GEORGE W.	ERYTHROFERRIN AND ITS ROLE IN HEMOGLOBIN SYNTHESIS	5R01 AM17790-03	14,344
CALHOUN, JOHN C. JR.	BIOCHEMICAL RESEARCH SUPPORT GRANT	5S07 RR07090-11	40,435
COTTON, F. ALBERT	STRUCTURE OF A MICROCOCCAL NUCLEASE	5R01 GM19455-04	92,315
COTTON, F. ALBERT	STRUCTURE OF A MICROCOCCAL NUCLEASE	5R01 GM19455-05	111,598
GLOVER, GEORGE I.	CHEMICAL AND PHYSICAL STUDIES ON PREPHENATE DEHYDRATASE	1R01 GM22791-01	37,573
HARDING, KENN E.	ALICYCLIC CATIONS IN BIOGENETIC-LIKE REACTIONS	5R01 AM15157-06	19,418
HARDING, KENN E.	SYNTHESIS OF TUMOR INHIBITORY SESQUITERPENOIDS	2R01 CA15736-03	40,705
HOEVE, CORNELIS A.	GUIDELINES FOR POLYMERS ACTING AS ELASTIN SUBSTITUTES	1R01 HL18441-01	35,251
IRGOUCI, KURT J.	CHARACTERIZATION OF ORGANOARSENIC COMPOUNDS IN NATURE	5R01 ES01125-02	48,791
MACFARLANE, RONALD D.	BIOMEDICAL USE OF PLASMA DESORPTION MASS SPECTROMETRY	1R01 GM22950-01	71,456
MARIANO, PATRICK S.	SYNTHESIS OF MITROMYCIN ANALOGS	5R01 CA16695-02	40,760
MARTELL, ARTHUR E.	REACTIONS OF METAL CHELATES OF VITAMIN B6	5R01 AM11694-10	35,004
MARTELL, ARTHUR E.	REACTIONS OF METAL CHELATES OF VITAMIN B6	5R01 AM11694-11	34,840
MARTELL, ARTHUR E.	ENZYME MODELS CONTAINING AMINOALKYLPHOSPHONIC ACIDS	5R01 GM20511-02	32,648
MC INTYRE, JOHN A.	CONSTRUCTION OF A POSITRON CAMERA WITH 3 MM RESOLUTION	1R01 GM22790-01	40,938
NAGYVARY, JOSEPH J.	STUDIES OF RNA WITH 2'-SH SUBSTITUTION	2R01 GM16213-08	25,692
REISER, RAYMOND	DIET CONTROL OF LIPID METABOLISM	5R01 AM06011-15	11,198
SHERTZER, HOWARD G.	REGULATION OF PULMONARY MONOOXYGENASE ACTIVITY	1R23 HL19541-01	32,258
SMITH, ELVIN E.	PREVENTION OF ENERGY BASE DEPLETION IN CARDIAC ARREST	7R01 HL19151-01	31,479
ZINGARO, RALPH A.	THIO AND SELENO SUGAR ESTERS OF GROUP V ACIDS	5R01 CA16912-03	29,056
ORGANIZATION TOTAL	21	840,645	
<b>DALLAS</b>			
<b>BAYLOR COLLEGE OF DENTISTRY</b>		<b>ZIP CODE 75226</b>	
ALLEN, EDWARD P.	EFFECTS OF SEX STEROIDS ON GINGIVAL GLYCOSAMINOGLYCANS	7R23 DE04638-01	9,353
FRAZIER, LOY W. JR.	PLASMA FACTOR(S) WHICH STIMULATE H <sub>2</sub> O & NH <sub>4</sub> O EXCRETION	5R01 AM18689-02	23,397
KOLSTAD, ROBERT A.	STREPTOCOCCUS MUTANS: STRAIN TYPING AND INHIBITION	2R01 DE03923-03	26,149
ORGANIZATION TOTAL	3	58,899	
<b>BAYLOR UNIVERSITY MEDICAL CENTER</b>		<b>ZIP CODE 75246</b>	
COOPER, BILLY H.	METABOLISM OF PATHOGENIC DEMATIACEOUS FUNGI	5R01 AI13184-02	22,471

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
ORGANIZATION TOTAL	1	22,471	
<b>BISHOP COLLEGE ZIP CODE 75241</b>			
FOWLES, EDISON R.	INTERDISCIPLINARY RESEARCH IN MOLECULAR BIOLOGY.....	5S06 RR08050-05	50,610
ORGANIZATION TOTAL	1	50,610	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS ZIP CODE 75235</b>			
ANDERSON, RICHARD G.	DEVELOPMENT AND FUNCTION OF THE OVIDUCT BASAL BODY.....	5R01 HD08987-02	47,953
ANDREWS, PETER M.	ULTRASTRUCTURE IN AMINONUCLEOSIDE INDUCED NEPHROSIS.....	5R01 AM18043-02	13,507
BAXTER, CHARLES R.	CIRCULATORY AND FLUID VOLUME CHANGES IN BURNS.....	5R01 GM21681-12	110,139
BELL, WILLIAM H.	SURGICAL-ORTHODONTICS AND BONE HEALING.....	5R01 DE03794-04	62,949
BELL, WILLIAM H.	SURGICAL-ORTHODONTICS AND BONE HEALING.....	5R01 DE03794-05	63,163
BERK, ROBERT N.	BILIARY RADIOGRAPHIC CONTRAST MATERIALS.....	5R01 AM17832-02	104,554
BERK, ROBERT N.	BILIARY RADIOGRAPHIC CONTRAST MATERIALS.....	5R01 AM17832-03	115,030
BILHEIMER, DAVID W.	LIPOPROTEIN METABOLISM IN RELATION TO ATHEROSCLEROSIS.....	5R01 HL15949-03	43,023
BILLINGHAM, RUPERT E.	IMMUNOBIOLOGY OF TISSUE TRANSPLANTATION AND PREGNANCY.....	5R01 AI10678-05	262,506
BONTE, FREDERICK J.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05426-15	261,305
BROWN, MICHAEL S.	CONTROL OF CHOLESTEROL SYNTHESIS IN HYPERLIPIDEMIA.....	5R01 HL16024-03	126,243
BUNTING, JAMES R.	STUDIES OF HEART ADENYL CYCLASE COMPLEX.....	5R01 HL18272-02	28,922
BURK, RAYMOND F., JR.	NUTRITIONAL SIGNIFICANCE OF SELENIUM-2 SELENOPROTEIN.....	5R01 ES01017-03	57,742
BUTOW, RONALD A.	MECHANISMS OF BIOENERGETIC REACTIONS.....	5R01 GM19090-05	39,459
BUTOW, RONALD A.	REGULATION OF MITOCHONDRIAL BIOGENESIS IN YEAST.....	1R01 GM22525-01	43,713
CAPRA, J DONALD.	GENETIC STUDY OF IMMUNOGLOBULIN V REGION STRUCTURE.....	5R01 AI12127-02	75,396
CAPRA, J DONALD.	RAGWEED POLLEN ALLERGENS: STRUCTURE AND FUNCTION.....	5R01 AI12796-02	31,763
CLARK, WESLEY G.	EFFECTS OF DRUGS ON THERMOREGULATORY MECHANISMS.....	5R01 NS08618-06	29,413
CLARK, WESLEY G.	EFFECTS OF DRUGS ON THERMOREGULATORY MECHANISMS.....	5R01 NS08618-07	31,384
COMBES, BURTON.	HEPATIC EXCRETORY FUNCTION.....	5R01 AM13757-19	6,678
COMBES, BURTON.	PROGRAM-PROJECT IN LIVER DISEASES.....	1P01 AM19329-01	423,300
COTTAM, GENE L.	NATURE OF THE REGULATION OF LIVER PYRUVATE KINASE.....	1R01 AM19031-01	50,574
DELAHUNTY, THOMAS J.	THE SECRETION OF PULMONARY SURFACE-ACTIVE MATERIAL.....	1R23 HL18342-01A1	47,747
DEMPSEY, WALTER B.	BIOSYNTHESIS AND REGULATION OF PYRIDOXAL 5'-PHOSPHATE.....	5R01 AM14157-07	28,494
DIETSCHY, JOHN M.	MECHANISMS OF FAT AND STEROID ABSORPTION BY THE GUT.....	2R01 AM16386-04	57,479
DIETSCHY, JOHN M.	MECHANISMS OF FAT AND STEROID ABSORPTION BY THE GUT.....	5R01 AM16386-05	63,001
DIETSCHY, JOHN M.	CONTROL OF CHOLESTEROL METABOLISM—BILE ACID TRANSPORT.....	5R01 HL09610-12	167,705
DOWBEN, ROBERT M.	STUDIES OF M-RNA IN NORMAL AND CANCER CELLS.....	5R01 CA18633-02	66,431
DOWBEN, ROBERT M.	FLUORESCENT PROBE STUDIES OF HEART MUSCLE PROTEINS.....	5R01 HL16678-02	53,395
ERDOS, ERVIN G.	VASOACTIVE PEPTIDES WHICH STIMULATE SMOOTH MUSCLES.....	3R01 HL16320-03S1	16,597
ESTABROOK, RONALD W.	HEPATIC MICROSOMAL DRUG OXIDATION.....	5R01 GM16488-08	166,530
ESTABROOK, RONALD W.	HEPATIC MICROSOMAL DRUG OXIDATION.....	2R01 GM16488-09	229,474
FEIT, HOWARD.	THE ROLE OF TUBULIN AT THE NERVE ENDING.....	5R01 NS12743-02	39,822
FINKELSTEIN, RICHARD A.	CHOLERA EXO-ENTEROTOXIN AND IMMUNITY IN CHOLERA.....	5R22 AI08877-08	63,644
FINKELSTEIN, RICHARD A.	ESCHERICHIA COLI DIARRHEAGENIC ENTEROTOXIN.....	5R22 AI10066-06	17,999
FIXLER, DAVID E.	CARDIOVASCULAR FOLLOW-UP OF HYPERTENSIVE ADOLESCENTS.....	1R01 HL18456-01	80,759
FORDTRAN, JOHN S.	WATER AND SOLUTE MOVEMENT IN THE HUMAN INTESTINE.....	2R01 AM06506-14	133,383
FORDTRAN, JOHN S.	WATER AND SOLUTE MOVEMENT IN THE HUMAN INTESTINE.....	5R01 AM06506-15	137,382
FORDTRAN, JOHN S.	GASTRIC ACID SECRETION AND BUFFER CONTENT AFTER EATING.....	5R01 AM16816-03	63,759
FORMAN, JAMES M.	ANALYSIS OF H-2 MUTANT STRAINS.....	5R01 AI13111-01	78,853
FOSTER, DANIEL W.	REGULATION OF KETOGENESIS IN TISSUES.....	5R01 AM18573-15	122,922
FRENKEL, EUGENE P.	CANCER CENTER SUPPORT GRANT (SPECIALIZED COMMUNITY).....	5P30 CA17065-02	288,850
FRENKEL, EUGENE P.	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA18132-02	48,173
FRENKEL, RENE A.	FUNCTION AND REGULATION OF MAMMALIAN MALIC ENZYMES.....	5R01 AM17983-02	25,239
GALOSY, RICHARD A.	CARDIOVASCULAR ADJUSTMENT TO BEHAVIORAL STRESS.....	1R01 HL19257-01	43,878
GANT, NORMAN F., JR.	PLACENTAL FUNCTION IN NORMAL AND ABNORMAL PREGNANCY.....	5R01 HD08360-03	40,478
GARRARD, WILLIAM T.	STRUCTURE OF THE SUBUNITS OF EUKARYOTIC CHROMOSOMES.....	5R01 GM22201-02	38,777
GAULDEN, MARY E.	CHROMOSOME MUTATIONS IN INFANTS AND CHILDREN.....	5R01 HD06832-05	74,520
GIACCHETTI, ANTONIO.	ADRENERGIC VESICLES IN EXPERIMENTAL HYPERTENSION.....	5R01 HL19300-01	27,915
GIACCHETTI, ANTONIO.	AUTONOMIC NEUROPATHY IN DIABETIC MICE.....	1R01 HL20446-01	29,199
GILLIAM, JAMES N.	SKIN INVOLVEMENT IN NEW ZEALAND MICE DISEASE.....	1R01 AM19101-01	43,302
GOLDSTEIN, JOSEPH L.	REGULATION OF GENE EXPRESSION BY SEX HORMONES.....	5R01 GM19258-04	54,174
GOLDSTEIN, JOSEPH L.	REGULATION OF GENE EXPRESSION BY SEX HORMONES.....	5R01 GM19258-05	59,992



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
GOMEZ-SANCHEZ, CELSO E.....	ROLE OF MINERALOCORTICOIDS IN LOW RENIN HYPERTENSION.....	1R01 HL18730-01	50,429
GONYEA, WILLIAM J.....	ADAPTATION OF MUSCLE TO HIGH-INTENSITY EXERCISE.....	5R01 AM17615-02	42,188
GOTAL, RAI K.....	PATHOPHYSIOLOGY OF ESOPHAGEAL MOTOR DISORDERS.....	5R01 AM18403-02	84,637
GRIFFIN, BRENDA W.....	HEMEPROTEIN REACTIONS WITH LIPID HYDROPEROXIDES.....	1R01 AM19027-01	38,989
GRINNELL, FREDERICK.....	ADHESION OF NORMAL AND MALIGNANT MAMMALIAN CELLS.....	2R01 CA14609-04	47,485
HACKENBROCK, CHARLES R.....	STUDIES ON NORMAL AND MALIGNANT CELL SURFACES.....	5R01 GM21698-02	78,144
HERSH, LOUIS B.....	STUDIES ON THE ENZYMES OF METHYLAMINE METABOLISM.....	5R01 AM13443-08	45,087
JASIN, HUGO E.....	ROLE OF IMMUNE COMPLEXES IN CHRONIC INFLAMMATION.....	5R01 AM16209-03	27,739
JOHNSON, ALICE R.....	INTERACTION OF PEPTIDES AND TARGET CELLS IN LUNG.....	5R01 HL18826-02	30,950
JOHNSTON, JOHN M.....	INTESTINAL ABSORPTION AND METABOLISM OF LIPIDS.....	5R01 AM03108-17	62,581
JOHNSTON, JOHN M.....	INTESTINAL ABSORPTION AND METABOLISM OF LIPIDS.....	5R01 AM03108-18	61,944
KANG, CHIL-YONG.....	RNA TUMOR VIRUSES & THE ORIGIN OF GENES FOR NEOPLASIA.....	5R01 CA16479-02	33,764
KANG, CHIL-YONG.....	RNA TUMOR VIRUSES & THE ORIGIN OF GENES FOR NEOPLASIA.....	5R01 CA16479-03	33,952
KANG, CHIL-YONG.....	R-TYPE VIRUS-LIKE PARTICLE: A NOVEL ONCOGENIC VIRUS.....	5R01 CA17713-02	42,602
KANG, CHIL-YONG.....	INFECTIOUS RETICULOENDOTHELIOSIS DNA PROVIRUS.....	1R01 CA20012-01	41,550
KETTMAN, JOHN R, JR.....	THE RELATION OF HUMORAL AND CELL MEDIATED IMMUNITIES.....	5R01 AI11630-03	37,741
KETTMAN, JOHN R, JR.....	SPECIFIC ACTIVATION OF T AND B LYMPHOCYTES.....	5R01 AI11893-03	40,753
KIRKPATRICK, JOEL B.....	MECHANISM OF NEUROPLASMIC FLOW.....	5R01 NS11239-04	34,472
KLEIN, JAN.....	IMMUNOLOGY AND GENETICS OF THE H-2 SYSTEM.....	5R01 AI11650-02	60,197
KLEIN, JAN.....	IMMUNOLOGY AND GENETICS OF THE H-2 SYSTEM.....	5R01 AI11650-03	64,369
KLEIN, JAN.....	POLYMORPHISM OF A MAJOR HISTOCOMPATIBILITY COMPLEX.....	5R01 AI11879-03	66,046
KLEIN, JAN.....	SEROLOGICAL ANALYSIS OF IR REGION OF MURINE H-2 COMPLEX.....	5R01 AI12589-02	41,823
KLEIN, JAN.....	MECHANISM OF TUMOR VARIANT FORMATION.....	5R01 CA17225-02	40,112
KOKKO, JUHA P.....	TRANSPORT PROPERTIES OF ISOLATED PERFUSED NEPHRONS.....	5R01 AM14677-06	51,918
KOKKO, JUHA P.....	TRANSPORT PROPERTIES OF ISOLATED PERFUSED NEPHRONS.....	5R01 AM14677-07	56,268
KOKKO, JUHA P.....	REGULATION OF FLUID, ELECTROLYTE, AND ACID-BASE BALANCE.....	5P01 HL11662-09	442,960
LINN, TRACY C.....	A-KETO ACID METABOLISM IN HEART, KIDNEY, AND LIVER.....	5R01 HL14055-06	29,907
LIPTON, JAMES M.....	CENTRAL THERMOSENSITIVE CONTROLS OF BODY TEMPERATURE.....	5R01 NS10046-03	36,613
LOSPALLUTO, JOSEPH J.....	LYMPHOID CELL FUNCTION AND AGING.....	5R01 AG00461-02	39,879
LUBY, JAMES P.....	CYTOMEGALOVIRUS IN RENAL TRANSPLANT RECIPIENTS.....	5R01 AI12658-02	59,871
MACDONALD, PAUL C.....	ESTROGEN PRODUCTION FROM PLASMA PRECURSORS IN HUMANS.....	5R01 AM06912-14	92,035
MASTERS, BETTIE S.....	MICROSOMAL ELECTRON TRANSPORT IN LIVER AND HEART.....	5R01 HL13619-07	47,971
MC CANN, SAMUEL M.....	NEUROHUMORAL CONTROL OF THE ANTERIOR PITUITARY.....	5R01 AM10073-11	78,925
MC CANN, SAMUEL M.....	NEURAL CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION.....	5R01 HD05151-06	113,140
MITCHELL, JERE H.....	HUMAN ADAPTATION TO ENVIRONMENTAL AND EXERCISE STRESS.....	5P01 HL06296-16	248,698
MITCHELL, JERE H.....	CARDIOVASCULAR CONTROL DURING ISOMETRIC EXERCISE.....	1R01 HL19198-01	75,303
MIYAMOTO, VERNON K.....	CHROMATIN STRUCTURE: LOCATION OF HISTONES.....	1R01 GM23061-01	23,929
MOSS, ROBERT L.....	NEUROHUMORAL EVENTS IN CELLS ENDING IN MEDIAN EMINENCE.....	5R01 NS10434-05	33,929
MOTICKA, EDWARD J.....	CONTROLLING ROLE OF THYMOCYTES IN ANTIBODY SYNTHESIS.....	5R01 AI11621-03	21,147
MOTICKA, EDWARD J.....	ANTIGEN INDUCED NONSPECIFIC IMMUNOGLOBULIN SECRETION.....	5R01 AI12191-02	27,353
MOTICKA, EDWARD J.....	ANTIGEN INDUCED NONSPECIFIC IMMUNOGLOBULIN SECRETION.....	5R01 AI12191-03	22,586
PAK, CHARLES Y.....	THEORETICAL AND THERAPEUTIC ASPECTS OF CALCIFICATION.....	2R01 AM16061-05	76,434
PARKEY, ROBERT W.....	IMAGING OF ACUTE MYOCARDIAL INFARCTION.....	5R01 HL17777-02	75,033
PETERSON, JULIAN A.....	REGULATION OF MICROBIAL OXIDATION REACTIONS.....	5R01 GM19036-08	52,409
PORTER, JOHN C.....	HYPOTHALAMIC CONTROL OF ANTERIOR PITUITARY SECRETION.....	5R01 AM01237-20	85,218
PORTER, JOHN C.....	HYPOTHALAMIC CONTROL OF ANTERIOR PITUITARY SECRETION.....	5R01 AM01237-21	90,023
PRAGER, MORTON D.....	IMMUNOLOGY OF CHEMICALLY MODIFIED CANCER CELLS.....	5R01 CA12089-06	62,121
PRITCHARD, JACK A.....	REPRODUCTION IN WOMEN WHOSE RED CELLS CONTAIN HEMOGLOBIN.....	5R01 HD08407-02	38,563
PRITCHARD, JACK A.....	AN ORGAN COMMUNICATION SYSTEM FOR INITIATION OF LABOR.....	5P01 HD08672-03	291,006
PROUGH, RUSSELL A.....	BIOCHEMICAL-PHARMACOLOGICAL EVALUATION OF LUNG CELLS.....	1R01 HL19654-01	32,735
RASKIN, PHILIP.....	HYPERLIPIDEMIA AND DIABETES: GLUCOSE LIPID INTERACTIONS.....	5R01 AM18179-02	54,460
REEVES, JOHN P.....	TRANSPORT ACTIVITY DURING LYMPHOCYTE STIMULATION.....	5R01 GM21423-03	24,723
RICHARDS, E GLEN.....	STUDIES OF CONTRACTILE PROTEINS OF HEART MUSCLE.....	3R01 HL14938-03S1	13,513
RICHARDS, E GLEN.....	STUDIES OF CONTRACTILE PROTEINS OF HEART MUSCLE.....	2R01 HL14938-04	26,747
ROSENBERG, ROGER N.....	EXPERIMENTAL CANCER CHEMOTHERAPY OF NEUROBLASTOMA.....	5R01 CA16379-03	58,102
ROSENBLUM, EUGENE D.....	STAPHYLOCOCCAL AND STAPHYLOPHAGE GENETICS.....	5R01 AI03093-17	30,805
ROSENFELD, CHARLES R.....	STUDIES OF UTERO-PLACENTAL CIRCULATION.....	5R01 HD08783-02	68,515
ROSENFELD, CHARLES R.....	STUDIES OF UTERO-PLACENTAL CIRCULATION.....	5R01 HD08783-03	73,571
SAID, SAMI I.....	SUPPORT FOR CENTER FOR LUNG RESEARCH.....	3P50 HL14187-05S2	354,911
SALLEE, VERNEY L.....	INTESTINAL LIPID ABSORPTION.....	5R01 AM16601-03	31,864

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
SCHACHAR, RONALD A.	RAMAN SPECTROSCOPY OF THE LENS OF THE EYE	1R01 EY01818-01	13,764
SELDIN, DONALD W.		5M01 RR00633-04	550,276
SHADDUCK, JOHN A.	SUPPORT FOR ANIMAL CARE FACILITY	5P40 RR00890-03	74,594
SHADDUCK, JOHN A.	DIAGNOSIS AND CONTROL OF MAMMALIAN ENCEPHALITIZOONOSIS	5R01 RR00938-03	35,847
SKELTON, C LYNN	DEVELOPMENT AND REGRESSION OF CARDIAC HYPERTROPHY	5R01 HL18087-02	38,093
SMILEY, JAMES D.	THE LOCAL IMMUNE RESPONSE IN RHEUMATOID SYNOVITIS	5R01 AM08418-12	28,779
SMILEY, JAMES D.	THE LOCAL IMMUNE RESPONSE IN RHEUMATOID SYNOVITIS	5R01 AM08418-13	33,778
SMITH, THOMAS E.	KINETICS AND CHEMISTRY OF ALLOSTERIC INTERACTIONS	5R01 GM21650-02	29,583
SRERE, PAUL A.	STRUCTURES AND MECHANISMS OF CITRATE ENZYMES	5R01 AM11313-10	34,314
STASTNY, PETER	MLC HISTOCOMPATIBILITY ANTIGENS IN HUMAN DISEASES	5R01 AI12563-02	44,571
STREILEIN, J WAYNE	STUDIES ON A SPLENIC ROLE IN IMMUNOREGULATION	5R01 AI12720-02	46,929
TAUROG, ALVIN M.	THYROID FUNCTION AND IODINE METABOLISM	5R01 AM03612-17	102,432
TEMPLETON, GORDON H.	CARDIAC MECHANICS MEASURED IN VITRO AND IN VIVO	5R01 HL18104-02	37,193
UHR, JONATHAN W.	REGULATION OF THE IMMUNE RESPONSE	5R01 AI10967-04	61,947
UHR, JONATHAN W.	REGULATION OF THE IMMUNE RESPONSE	5R01 AI10967-05	84,238
UHR, JONATHAN W.	THE BIOLOGY AND BIOCHEMISTRY OF THE LYMPHOCYTE SURFACE	5P01 AI11851-03	373,738
UNGER, ROGER H.	THE GLUCOREGULATORY PEPTIDE HORMONES	5R01 AM02700-17	58,661
UYEDA, KOSAKU	STRUCTURE AND FUNCTION OF PHOSPHOFRUCTOKINASE	5R01 AM16194-05	29,572
VITETTA, ELLEN S.	THE BIOLOGY OF CELL SURFACE IGD ON MURINE LYMPHOCYTES	5R01 AI12789-02	53,359
VITETTA, ELLEN S.	STRUCTURAL STUDIES OF H-2, TL AND T/T (F9) ANTIGENS	1R01 AI13448-01	68,649
WATERMAN, MICHAEL R.	ROLE OF CYSTEINE RESIDUES IN HEMOGLOBINS A, F, AND S	5R01 AM16188-05	25,063
WEISS, GEORGE B.	MECHANISMS OF DRUG ACTION IN VASCULAR SMOOTH MUSCLE	5R01 HL14775-05	43,941
WEISS, GEORGE B.	MECHANISMS OF DRUG ACTION IN VASCULAR SMOOTH MUSCLE	5R01 HL14775-06	50,794
WILDENTHAL, C KERN	FETAL HEARTS IN ORGAN CULTURE	5R01 HL14706-05	63,248
WILLERSON, JAMES T.	INFLUENCE OF MANNITOL ON ISCHEMIC CARDIAC MUSCLE	3R01 HL15522-03S1	7,484
WILLERSON, JAMES T.	INFLUENCE OF MANNITOL ON ISCHEMIC CARDIAC MUSCLE	2R01 HL15522-04	19,149
WILLERSON, JAMES T.	ISCHEMIC HEART DISEASE CENTER (SCOR)	5P50 HL17669-02	584,195
WILSON, JEAN D.	ACTION OF HORMONES ON PROTEIN AND RNA METABOLISM	2R01 AM03892-18	158,527
WILSON, JEAN D.	CHOLESTEROL METABOLISM IN THE INTACT ANIMAL	5R01 AM08749-12	37,442
WILSON, JEAN D.	CHOLESTEROL METABOLISM IN THE INTACT ANIMAL	5R01 AM08749-13	35,156
WOODWARD, DONALD J.	EFFECTS OF ENVIRONMENTAL STRESSES ON BRAIN DEVELOPMENT	7R01 NS13225-01	10,000
WOODWARD, DONALD J.	EFFECTS OF ENVIRONMENTAL STRESSES ON BRAIN DEVELOPMENT	5R01 NS13225-02	55,895
WORTHEN, HOWARD G.	HEAVY METALS AND THE DEVELOPING NEPHRON	5R01 ES00822-02	29,361
ZIFF, MORRIS	IMMUNOLOGIC AND OTHER ASPECTS OF THE RHEUMATIC DISEASES	5P01 AM09989-11	117,216
ZIFF, MORRIS	IMMUNOLOGIC AND OTHER ASPECTS OF THE RHEUMATIC DISEASES	5P01 AM09989-12	132,522
ZIFF, MORRIS	AUTOANTIBODY FORMATION IN RHEUMATOID ARTHRITIS AND SLE	5R01 AM18505-02	46,916
ORGANIZATION TOTAL	149	11,806,554	
<b>DENTON</b>			
<b>NORTH TEXAS STATE UNIVERSITY ZIP CODE 76203</b>			
GRACY, ROBERT W.	STRUCTURE AND FUNCTION OF ALDOSE KETOSE ISOMERASES	5R01 AM14638-06	43,374
HARRIS, BEN G.	STRUCTURE AND PHYSIOLOGICAL FUNCTION OF MALIC ENZYMES	5R01 AI10263-03	29,289
HARRIS, BEN G.	REGULATION OF METABOLISM IN PARASITIC HELMINTHS	5R01 AI12331-02	25,245
LACKO, ANDRAS G.	PURIFICATION AND PROPERTIES OF HUMAN PLASMA LCAT	7R01 HL19142-01	32,927
SKINNER, CHARLES G.	OXAPTERIDINE ANALOGS OF FOLIC ACID	1R01 CA18610-01	29,597
ORGANIZATION TOTAL	5	160,432	
<b>TEXAS WOMAN'S UNIVERSITY ZIP CODE 76204</b>			
RUDICK, MICHAEL J.	THE MECHANISM OF GLYCOPROTEIN SECRETION	1R01 GM22707-01	21,716
VOSE, GEORGE P.	EFFECT OF OXYMETHOLONE, F, AND P ON DEMINERALIZED BONE	5R01 AM15979-03	35,739
ORGANIZATION TOTAL	2	57,455	
<b>EDINBURG</b>			
<b>PAN AMERICAN UNIVERSITY ZIP CODE 78539</b>			
SAVAGE, NORMAN	MINORITY BIOMEDICAL SUPPORT PROGRAM	5S06 RR08038-05	144,346
ORGANIZATION TOTAL	1	144,346	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
<b>EL PASO</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT EL PASO</b>		<b>ZIP CODE 79968</b>	
BRISTOL, JOHN R.....	BIOMEDICAL RESEARCH INTERN PROGRAM.....	5506 RR08012-05	120,507
ORGANIZATION TOTAL	1 120,507		
<b>FORT WORTH</b>			
<b>TEXAS CHRISTIAN UNIVERSITY</b>		<b>ZIP CODE 76129</b>	
BABITCH, JOSEPH A.....	SYNAPTIC MEMBRANE STRUCTURE AND FUNCTION.....	5R01 NS12485-02	36,372
BARTLETT, PAUL D.....	SMALL MOLECULES IN ORGANIC AND ENVIRONMENTAL CHEMISTRY .....	5R01 ES01130-02	97,426
HITT, JOHN C.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5507 RR07106-02	39,330
ORGANIZATION TOTAL	3 173,128		
<b>GALVESTON</b>			
<b>AMERICAN SOCIETY OF HUMAN GENETICS</b>		<b>ZIP CODE 77550</b>	
CHILDS, BARTON.....	FOREIGN TRAVEL FOR INTL. CONG. OF HUMAN GENETICS.....	1R13 GM23335-01A1	5,000
ORGANIZATION TOTAL	1 5,000		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON</b>		<b>ZIP CODE 77550</b>	
ABELL, CREED W.....	BIOCHEMISTRY OF NORMAL AND LEUKEMIC LYMPHOCYTES.....	5R01 CA14525-04	68,696
ABELL, CREED W.....	ENZYME THERAPY OF NEOPLASIA.....	5R01 CA14527-03	32,496
BAILEY, BYRON J.....	ELECTRONIC LARYNGEAL PROSTHESIS.....	5R18 CA17961-02	76,188
BARON, SAMUEL.....	ACUTE HEMORRHAGIC CONJUNCTIVITIS AND INTERFERON.....	1R01 EY01715-01	55,108
BARRANCO, SAM C.....	DRUG SENSITIVITY OF MAMMALIAN CELLS IN PLATEAU PHASE.....	2R01 CA15397-04	56,591
BAUR, PAUL S.....	STRUCTURE OF BARORECEPTORS IN HYPERTENSION.....	1R01 HL19048-01	42,191
BOWMAN, BARBARA H.....	THE BASIC DEFECT IN CYSTIC FIBROSIS: A PROGRAM PROJECT.....	5P01 AM17040-03	253,940
BOWMAN, BARBARA H.....	GENETIC CONTROL OF THE STRUCTURE OF HUMAN PROTEINS.....	3R01 HD03321-09S1	7,699
BOWMAN, BARBARA H.....	GENETIC CONTROL OF THE STRUCTURE OF HUMAN PROTEINS.....	2R01 HD03321-10	104,562
BRANDT, EDWARD N, JR.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05427-15	227,325
BRINKLEY, B R.....	STUDIES OF MITOSIS IN NORMAL AND NEOPLASTIC CELLS.....	5R01 CA14675-04	81,808
BRODICK, MALCOLM S.....	INTERNAL DIVALENT CATIONS AND MEMBRANE PROPERTIES.....	5R01 NS11963-02	29,808
BROWN, ARTHUR M.....	INNERVATION OF CORONARY ARTERIES AND HEART.....	2R01 HL16657-03	102,395
BROWN, ARTHUR M.....	INNERVATION OF CORONARY ARTERIES AND HEART.....	5R01 HL16657-04	83,788
BROWN, ARTHUR M.....	NERVOUS AND IONIC FACTORS IN SUDDEN CARDIAC DEATH.....	5R01 HL18798-02	106,562
BROWN, ARTHUR M.....	IONIC MOVEMENTS ACROSS NERVE CELL BODY MEMBRANES.....	5R01 NS11453-03	59,019
BROWN, ARTHUR M.....	PHOTOTRANSDUCTION IN APLYSIA NEURONS.....	5R01 NS12655-02	46,554
CHANG, JEFFREY P.....	CELL CYCLE & RESPONSE OF TUMOR CELLS TO CHEMOTHERAPY.....	5R01 CA16663-02	89,658
COGGESHALL, RICHARD E.....	INDIVIDUAL NEURONS IN A SIMPLE NERVOUS SYSTEM.....	5R01 NS10161-06	47,888
COSTANZI, JOHN J.....	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP.....	3R10 CA03096-18S1	6,111
COSTANZI, JOHN J.....	NEW APPROACHES TO IMMUNOTHERAPY OF CANCER PATIENTS.....	5P01 CA16964-02	277,774
COULTER, JOE D.....	CENTRAL ORGANIZATION OF SOMATOSENSORY SYSTEMS.....	5R01 NS12481-02	36,761
DOWELL, RUSSELL T.....	CARDIAC ENLARGEMENT IN THE NEONATAL HEART.....	5R01 HL16352-02	23,643
DOWELL, RUSSELL T.....	CARDIAC ENLARGEMENT IN THE NEONATAL HEART.....	5R01 HL16352-03	21,109
EATON, DOUGLAS C.....	IONIC SELECTIVITY OF A NERVE CELL BODY.....	5R01 NS12008-02	33,442
EATON, DOUGLAS C.....	IONIC SELECTIVITY OF A NERVE CELL BODY.....	5R01 NS12008-03	38,136
EWERT, ADAM.....	INTERACTIONS OF BRUGIA MALAYI AND MICROORGANISMS.....	5R01 AI11871-03	23,526
FEINSTEIN, ROBERT.....	NEURAL CONTROL OF A BRADYCARDIAL REFLEX.....	5R01 NS12184-02	12,991
FISHMAN, HARVEY M.....	FLUCTUATION PHENOMENA AND ION MOVEMENTS IN MEMBRANES.....	5R01 NS11764-04	39,334
FOREMAN, ROBERT D.....	CENTRAL ORGANIZATION OF CARDIAC AFFERENT NERVES.....	1R01 HL18728-01	28,325
FOREMAN, ROBERT D.....	CENTRAL ORGANIZATION OF CARDIAC AFFERENT NERVES.....	5R01 HL18728-02	23,961
FULLER, GERALD M.....	STUDIES ON THE REGULATION OF FIBRINOGEN BIOSYNTHESIS.....	5R01 HL16445-03	23,523
GARDNER, FRANK H.....	ANDROGENS AND 5B-H METABOLITES IN CANCER CHEMOTHERAPY.....	7R01 CA19997-01	61,420
GOLDSTEIN, ALLAN L.....	ROLE OF THE THYMUS IN CANCER INDUCTION BY VIRUSES.....	5R01 CA14108-05	54,689
GOLDSTEIN, ALLAN L.....	ROLE OF THYMOSIN IN DEVELOPMENTAL AND AGING PROCESSES.....	5R01 CA15419-03	42,675
GRANT, J ANDREW.....	COMPLEMENT-INDUCED RELEASE OF INFLAMMATORY MEDIATORS.....	5R01 AI12621-02	56,822
GROSSMAN, ROBERT G.....	A CENTER FOR THE STUDY OF NERVOUS SYSTEM INJURY.....	5P50 NS07377-07	196,724
GUCKIAN, JAMES C.....	MEDIATORS OF INFLAMMATION IN LUNG DURING PNEUMONIA.....	1R01 AI13906-01	53,713



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
GUEST, M MASON	MICROCIRCULATION, HEMOFUIDITY AND HEMOSTASIS.....	5R01 HL16449-03	70,232
HABER, BERNARD	NEURON-GLIA INTERACTION-IN VITRO CHOLINERGIC SYSTEMS.....	5R01 NS11354-03	24,776
HALL, CHARLES E	HORMONAL AND DIETARY MODIFICATION OF NACL TOXICITY.....	5R01 HL09911-10	43,649
HALL, CHARLES E	HORMONAL AND DIETARY MODIFICATION OF NACL TOXICITY.....	5R01 HL09911-11	43,790
HALL, CHARLES E	GENETIC FACTORS IN EXPERIMENTAL HYPERTENSION.....	5R01 HL15319-04	39,060
HARRIS, NICK S	EFFECT OF ANTIBODY IMMUNOSUPPRESSION ON TUMOR GROWTH.....	5R01 CA15278-02	48,220
HULET, WILLIAM H	CAPTURE AND MAINTENANCE OF THE SQUID LOLIGO PEALCI.....	1P40 RR01024-01	93,543
JENKINS, VERNON K	EFFECTS OF THERAPEUTIC RADIATION ON LYMPHOCYTE RESPONSE.....	2R01 CA13435-04	38,859
KLEBE, ROBERT J	CELL ADHESION PROTEINS AND MALIGNANCY.....	1R01 CA19017-01	59,994
KLEBE, ROBERT J	SOMATIC CELL GENETICS OF DIFFERENTIATED PHENOTYPES.....	2R01 GM21433-03	55,121
KUNZE, DIANA L	REFLEX CONTROL OF THE HEART.....	5R01 HL17601-02	39,074
KUNZE, DIANA L	REFLEX CONTROL OF THE HEART.....	5R01 HL17601-03	45,949
LEGATOR, MARVIN S	MUTAGENIC POTENTIAL OF ENVIRONMENTAL AGENTS.....	7R01 ES01526-01	86,756
LEGATOR, MARVIN S	DETERMINATION OF GENETIC REPAIR IN HUMAN SUBJECTS.....	1R01 GM23333-01	43,860
LEVIN, WILLIAM C	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP.....	5R10 CA03096-19	165,849
LEVIN, WILLIAM C	CANCER CENTER SUPPORT GRANT (SPECIALIZED).....	5P30 CA17701-02	325,939
LEVIN, WILLIAM C	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00073-14	651,188
MC ADON, DAVID J	NEW APPROACHES TO 5-HYDROXYTRYPTAMINE METABOLISM.....	5R01 NS12567-02	28,084
MOORE, LEE E	FLUCTUATION SPECTROSCOPY OF EXCITABLE MEMBRANES.....	7R01 NS13520-01	37,635
NAKA, KEN-ICHI	FUNCTION OF NEURON NETWORKS IN VERTEBRATE VISUAL SYSTEMS.....	7R01 EY01897-01	100,936
NANNINGA, LUDDO B	PLASMA INHIBITOR OF PROFIBRINOLYSIN ACTIVATION.....	5R01 HL16443-03	58,341
PAPERMASTER, BEN W	IMMUNOCOMPETENCE EVALUATION WORKSHOP.....	1R13 CA19580-01	23,108
PETERSON, JOHNNY W	ANTIBACTERIAL IMMUNITY AGAINST VIBRIO CHOLERAEE.....	5R22 AI08518-08	60,635
PINSKER, HAROLD M	PLASTIC CHANGES IN PACEMAKER PROPERTIES OF NEURONS.....	5R01 NS12223-02	45,658
POFFENBARGER, PHILLIP L	ENDOCRINOLOGY OF NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY.....	5R01 AM18513-02	46,194
RAE, JAMES L	NORMAL AND CATARACTOUS LENS CELL BIOELECTRIC PROPERTIES.....	2R01 EY01207-02	53,576
REMMERS, JOHN E	NEURAL MECHANISMS CONTROLLING MOTOR ACT OF BREATHING.....	5R01 HL18007-03	1,893
ROME, EDWARD B	PRIMARY BREAST CANCER THERAPY GROUP (NSABP).....	5R10 CA12039-05	20,873
RUSSELL, JOHN M	CHLORIDE TRANSPORT IN NERVE, MUSCLE AND HEART.....	5R01 NS11946-02	35,468
RUSSELL, JOHN M	CHLORIDE TRANSPORT IN NERVE, MUSCLE AND HEART.....	5R01 NS11946-03	36,777
SCHNEIDER, ROSE G	HEMOGLOBIN VARIANTS IN RELATION TO DISEASE.....	5R01 AM00780-25	75,147
SCHNEIDER, ROSE G	HEMOGLOBIN VARIANTS IN RELATION TO DISEASE.....	5R01 AM00780-26	77,520
SMITH, LELAND L	DERIVATION OF CARCINOGENIC EPOXIDES.....	5R01 CA17872-02	34,301
SMITH, LELAND L	AIR POLLUTANT-LIPID MEMBRANE INTERACTIONS.....	5R01 ES00944-03	45,867
SMITH, LELAND L	ORIGINS OF ATHEROSCLEROSIS.....	5R01 HL10160-11	55,744
SMITH, LELAND L	HUMAN BRAIN STEROLS IN AGING AND DISEASE.....	5R01 NS08106-08	31,759
SRIVASTAVA, SATISH K	METABOLIC STUDIES IN NORMAL AND CATARACTOUS LENSES.....	5R01 EY01677-02	24,122
SRIVASTAVA, SATISH K	BIOCHEMICAL GENETICS: TAY-SACHS & SANDHOFF'S DISEASES.....	5R01 GM21655-02	55,973
STONE, HUBERT L	CARDIAC ADAPTATION TO PHYSICAL TRAINING.....	5R01 HL14828-05	49,687
STONE, HUBERT L	REPETITIVE EXERCISE AND CARDIAC ENLARGEMENT.....	1R01 HL18839-01	82,788
SZABO, GABOR	PERMEABILITY TRANSIENTS OF CARRIERS, CHANNELS, AND HEART.....	7R01 HL19639-01	50,119
THOMPSON, JAMES C	SURGICAL STUDIES ON METABOLISM OF GI HORMONES.....	2R01 AM15241-06	107,981
TRABER, DANIEL L	THE NATURE AND TREATMENT OF ENDOTOXIC SHOCK.....	3R01 HL15737-03S1	2,535
WARD, JONATHAN B, JR	MEMBRANE FUNCTIONS IN CYSTIC FIBROSIS.....	1R23 HL19563-01	41,260
WILLIAMS, JOHN F, JR	FACTORS ALTERING THE COURSE OF MYOCARDIAL DYSFUNCTION.....	5R01 HL13639-05	59,850
WILLIS, WILLIAM D, JR	SYNAPTIC CONNECTIONS OF SPINAL CORD NEURONS.....	5R01 NS09743-07	40,021
WILLIS, WILLIAM D, JR	COMPARATIVE NEUROBIOLOGY.....	5P01 NS11255-03	337,964
WOLF, STEWART	PREPARATION OF BOOK ON THE DOCTOR'S JOB.....	1R01 LM02811-01	8,662
ORGANIZATION TOTAL	86 6,233,292		

## HOUSTON

### BAYLOR COLLEGE OF MEDICINE

ZIP CODE 77025

ALFORD, BOBBY R	OTOPHYSIOLOGY AND OTOPATHOLOGY PROGRAM PROJECT.....	5P50 NS10940-04	229,337
ALFREY, CLARENCE P, JR	EFFECTS OF PHYSICAL FORCES ON BLOOD.....	2R01 HL16938-03	107,669
ALLEN, JULIUS C	CAO0 INTERACTION WITH ISOLATED ARTERIAL MEMBRANES.....	5R01 HL16947-02	28,616
ALLEN, JULIUS C	CAO0 INTERACTION WITH ISOLATED ARTERIAL MEMBRANES.....	5R01 HL16947-03	19,646
ANDERSON, ROBERT E	METABOLISM OF VISUAL CELLS.....	5R01 EY00871-05	79,755
AUNE, KIRK C	THE RIBOSOME: WHAT HOLDS IT TOGETHER?.....	5R01 GM22244-02	48,453

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
BAER, PAUL E.	HIGH BLOOD PRESSURE IN THE YOUNG, PREVALENCE & PRECURSOR	1R01 HL19929-01	121,364
BAKER, CAROL J.	HUMAN IMMUNITY TO GROUP B STREPTOCOCCUS	1R01 AI13249-01	42,397
BARNES, EUGENE M, JR.	REGULATION OF TRANSPORT IN MAMMALIAN CELLS	5R01 AM17436-03	37,256
BARNES, EUGENE M, JR.	MECHANISMS OF SUGAR TRANSPORT IN MEMBRANE VESICLES	5R01 GM18962-03	23,828
BASINGER, SCOTT F.	RETINA: PHOTORECEPTOR MEMBRANE SYNTHESIS AND FUNCTION	5R01 EY01406-02	46,695
BEALMEAR, PATRICIA M.	RADIATION PATHOLOGY AND TREATMENT IN GERM-FREE MICE	5R01 AI10990-04	67,654
BEAUDET, ARTHUR L.	REGULATION OF HEMOGLOBIN BIOSYNTHESIS	1R01 AM18507-01	50,090
BIRNBAUMER, LUTZ	ACTION OF GLUCAGON ON LIVER ADENYLYL CYCLASE	1R01 AM19318-01	69,439
BIRNBAUMER, LUTZ	GONADOTROPHIN AND PROSTAGLANDIN ACTION IN THE OVARY	1R01 HD09581-01	61,739
BIRNBAUMER, LUTZ	CATECHOLAMINE ACTION ON THE HEART	1R01 HL19423-01	63,673
BISHOP, STEPHEN H.	ADENINE NUCLEOTIDE MAINTENANCE IN THE ISCHEMIC HEART	5R01 HL17372-02	38,531
BLATTNER, RUSSELL J.	GENERAL CLINICAL RESEARCH CENTER (CHILDREN)	5M01 RR00188-12	435,523
BULLOCK, DAVID W.	UTERINE PROTEIN REGULATION IN EARLY PREGNANCY	5R01 HD09378-02	60,232
BURZYNSKI, STANISLAW R.	ANTINEOPLASTIC PEPTIDES FROM URINE	3R01 CA15056-02S1	14,752
BUSCH, HARRIS	CANCER RESEARCH CENTER	3P01 CA10893-07S1	18,421
BUSCH, HARRIS	CANCER RESEARCH CENTER	2P01 CA10893-08	1,408,125
BUSCH, HARRIS	CANCER RESEARCH CENTER	5P01 CA10893-09	1,422,979
BUTEL, JANET S.	THE DNA-TRANSFER METHOD OF VIRUS RESCUE	5R01 CA15149-03	42,476
BUTLER, WILLIAM T.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05425-15	261,305
CASKEY, CHARLES T.	MAMMALIAN PEPTIDE TERMINATION-MECHANISM AND SUPPRESSION	5R01 GM18682-05	45,437
CATE, THOMAS R.	IMMUNOLOGIC REACTIONS WITH INFLUENZA IN THE LUNG	5R01 AI13123-02	47,797
CLARK, JAMES H.	ESTROGEN RECEPTORS AND REPRODUCTIVE FUNCTIONS	2R01 HD08436-01	60,655
COATS, ALFRED C.	HUMAN AUDITORY NERVE AND BRAINSTEM EVOKED POTENTIALS	1R01 NS12910-01	55,219
CRANFORD, JERRY L.	ROLE OF CORTICO-THALAMIC SYSTEM IN BINAURAL HEARING	5R01 NS11812-03	21,855
DE BAKEY, MICHAEL E.	TAUB LABORATORIES FOR MECHANICAL CIRCULATORY SUPPORT	5P01 HL13330-07	666,445
DE BAKEY, MICHAEL E.	DEMONSTRATION CENTER FOR HEART AND VESSEL DISEASE	5P60 HL17269-02	3,251,356
DI FERRANTE, NICOLA M.	GLYCOSAMINOGLYCANS AND LIPOPROTEINS OF HUMAN PLASMA	1R01 HL18692-01	89,662
DI FERRANTE, NICOLA M.	CONNECTIVE TISSUE AND DIABETIC VASCULAR DISEASE	1R01 HL20447-01	35,789
ENTMAN, MARK L.	CONTROL OF MYOCARDIAL SARCO-TUBULAR CALCIUM STORES	5R01 HL13870-06	32,747
ENTMAN, MARK L.	CONTROL OF MYOCARDIAL SARCO-TUBULAR CALCIUM STORES	5R01 HL13870-07	33,382
FERNBACH, DONALD J.	SOUTHWEST ONCOLOGY GROUP	5R10 CA03161-19	132,329
FERNBACH, DONALD J.	SPECIAL CHILDREN'S CANCER CENTER PROGRAM	5P01 CA07357-12	225,843
GLASSER, STANLEY R.	BIOLOGICAL ROLE OF UTERINE NUCLEAR ESTROGEN BINDING	5R01 HD08671-02	75,783
GLEZEN, WILLIAM P.	HOST FACTORS IN PATHOGENESIS OF RESPIRATORY DISEASE	7R01 HL19651-01	61,112
GOLDSTEIN, MARGARET A.	ANALYSIS OF Z BANDS IN HEART BY OPTICAL DIFFRACTION	5R01 HL17376-02	12,643
GOLDSTEIN, MARGARET A.	ANALYSIS OF Z BANDS IN HEART BY OPTICAL DIFFRACTION	5R01 HL17376-03	12,878
GRIFFITH, DONALD P.	URINARY STONES-MEDICAL TREATMENT OF SURGICAL FAILURES	1R01 AM19313-01	40,134
HAZLEWOOD, CARLTON F.	PHYSIOLOGICAL ROLE OF WATER IN TISSUES	2R01 GM20154-04	70,767
HOLLINGER, F. BLAINE	CELL-MEDIATED IMMUNITY IN HEPATITIS B	5R01 AI12714-02	40,972
HORNING, EVAN C.	RESEARCH IN ANALYTICAL BIOCHEMISTRY FOR HUMAN STUDIES	5P01 GM13901-10	278,562
HORNING, EVAN C.	RESEARCH IN ANALYTICAL BIOCHEMISTRY FOR HUMAN STUDIES	2P01 GM13901-11	298,887
HORNING, MARJORIE G.	RESEARCH ON TOXICOLOGICAL PROBLEMS OF DRUGS	5P50 GM16216-08	530,172
HORNING, MARJORIE G.	RESEARCH ON TOXICOLOGICAL PROBLEMS OF DRUGS	2P50 GM16216-09	173,246
HUCKINS, CLAIRE	BEHAVIOR OF STEM CELL SPERMATOGONIA IN RODENT TESTES	5R01 HD07655-03	48,602
IGARASHI, MAKOTO	PARTIAL ABLATION OF VESTIBULAR SYSTEM AND EQUILIBRIUM	5R01 NS07237-09	46,857
KAUFMAN, RAYMOND H.	IMMUNOLOGICAL PARAMETERS OF INVASIVE CERVICAL CARCINOMA	5R01 CA14021-03	34,546
KELLAWAY, PETER	EPILEPSY RESEARCH CENTER	5P50 NS11535-02	319,864
KIT, SAUL	BIOCHEMICAL ASPECTS OF VIRAL CARCINOGENESIS	3R01 CA06656-13S1	27,930
KIT, SAUL	BIOCHEMICAL ASPECTS OF VIRAL CARCINOGENESIS	5R01 CA06656-14	208,112
KNOX, JOHN M.	SEXUALLY TRANSMITTED DISEASES RESEARCH PROGRAM PROJECT	5P01 AI12618-02	271,644
KOHLER, PETER O.	HORMONE PRODUCTION IN CULTURED ENDOCRINE CELLS	5R01 AM17307-03	77,312
LANE, MONTAGUE	SOUTHWEST ONCOLOGY GROUP	5R10 CA03392-19	84,965
LEVY, ALLAN H.	COMPUTATIONAL RESEARCH CENTER PROGRAM	3P41 RR00259-09S1	32,983
MARTIN, R. RUSSELL	FACTORS WHICH MODIFY LEUKOTAXIS OF HUMAN CELLS	5R01 AI12048-03	29,997
MARTIN, R. RUSSELL	HUMAN MACROPHAGES AND OTHER CELLS IN CARCINOGENESIS	5R01 CA15784-02	41,441
MAYOR, HEATHER D.	GROWTH & MATURATION OF ADENOASSOCIATED SATELLITE VIRUSES	5R01 CA14618-03	44,310
MC CLURE, MICHAEL E.	IMMUNOPATHOLOGY OF BREAST CANCER	5R01 CA17316-02	43,660
MEANS, ANTHONY R.	BIOLOGY OF THE TESTIS: ACTION OF FSH	5R01 HD07503-04	54,325
MEANS, ANTHONY R.	LIPOPROTEIN METABOLISM AND HORMONAL REGULATION	5R01 HL16512-02	55,243
MEDINA, DANIEL	CHEMICAL CARCINOGENESIS OF MOUSE MAMMARY GLANDS	5R01 CA11944-06	54,912

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
MEDINA, DANIEL	VIRUS INDUCTION OF NONVIRAL MAMMARY TUMOR ANTIGENS	5R01 CA13261-04	25,361
MERRILL, JOSEPH M.	GENERAL CLINICAL RESEARCH CENTER	2M01 RR00134-12	209,786
MERRILL, JOSEPH M.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00350-10	466,354
MEYER, JOHN S.	CENTER FOR CEREBROVASCULAR RESEARCH	5P50 NS09287-06	403,865
MOSES, ROBB E.	MECHANISMS OF CHROMOSOME REPLICATION	5R01 GM19122-05	47,628
NELSON, THOMAS E.	GLYCOGEN DEBRANCHING ENZYME IN MUSCLE GLYCOGENOLYSIS	5R01 AM17978-02	33,517
NELSON, THOMAS E.	GLYCOGEN DEBRANCHING ENZYME IN MUSCLE GLYCOGENOLYSIS	5R01 AM17978-03	36,093
NOALL, MATTHEW W.	MODE OF ACTION OF COLON CARCINOGENS	5R01 CA17103-02	33,434
O'MALLEY, BERT W.	CENTER FOR POPULATION RESEARCH AND STUDY IN REPRODUCTION	3P30 HD07495-03S1	34,850
O'MALLEY, BERT W.	CENTER FOR POPULATION RESEARCH AND REPRODUCTION STUDIES	5P30 HD07495-04	420,590
O'MALLEY, BERT W.	SEX HORMONE RECEPTOR COMPONENTS AND THE CELL GENOME	5R01 HD07857-05	100,971
O'MALLEY, BERT W.	REPRODUCTIVE HORMONES: BIOLOGICAL & MOLECULAR ACTIONS	5R01 HD08188-04	133,977
O'MALLEY, BERT W.	REPRODUCTIVE HORMONES: BIOLOGICAL & MOLECULAR ACTIONS	5R01 HD08188-05	144,209
PECK, ERNEST J, JR.	NEUROENDOCRINE CONTROL OF PITUITARY HORMONE SECRETION	5R01 HD08389-03	46,207
PECK, ERNEST J, JR.	GAMMA-AMINOBUTYRIC ACID RECEPTORS OF THE CEREBELLUM	5R01 NS11753-02	34,509
POWNALL, HENRY J.	DYNAMICS OF ATHEROGENESIS AND LIPOPROTEIN FORMATION	1R01 HL19459-01	27,308
RANDERATH, KURT	CHEMICAL STUDIES ON TUMOR AND TUMOR VIRUS RNA	5R01 CA13591-05	62,570
RANDERATH, KURT	SEQUENCE STUDIES ON HUMAN PHENYLALANINE-tRNAs	5R01 CA16840-02	20,876
ROSEN, JEFFREY M.	HORMONAL REGULATION OF BREAST CANCER	5R01 CA16303-02	52,366
ROSSEN, ROGER D.	A ROLE FOR ANTIGLOBULIN IN GLOMERULONEPHRITIS	5R01 AM17555-03	31,617
ROSSEN, ROGER D.	ANTIGEN-ANTIBODY COMPLEXES IN CANCER PATIENTS SERA	1R01 CA20543-01	42,712
SCHWARTZ, ARNOLD	ION TRANSPORT IN CARDIAC MUSCLE	5R01 HL07906-13	56,396
SKINNER, JAMES E.	BRAIN REGULATION OF CARDIAC ARRHYTHMIA	5R01 HL17907-02	72,649
SMITH, LOUIS C.	LIPID METABOLISM: TRANSPORT BY LATERAL DIFFUSION	2R01 HL15648-04	56,507
STEINER, SHELDON M.	MEMBRANE FUCOSYLGLYCOLIPIDS IN VIRUS-INDUCED CANCERS	5R01 CA16311-03	53,078
SUKI, WADI M.	REGULATION OF H ION SECRETION BY CA ION AND PARATHYROID	5R01 AM16943-03	29,270
SYBERS, HARLEY D.	ACCELERATED REPAIR OF ISCHEMIC HEART AFTER THERAPY	7R01 HL19147-01	46,775
SYBERS, HARLEY D.	ACCELERATED REPAIR OF ISCHEMIC HEART AFTER THERAPY	5R01 HL19147-02	48,109
TAUNTON, OSCAR D.	CONTROL OF LIPOPROTEIN SYNTHESIS	5R01 HL16544-02	36,212
TENG, CHING-SUNG	STUDY OF HORMONE-CONTROLLED SEX-ORGAN DIFFERENTIATION	2R01 HD08218-04	70,951
TENG, CHRISTINA T.	REPRODUCTIVE BIOLOGY OF THE EMBRYONIC OVARY	1R01 HD09467-01A1	30,488
TRENTIN, JOHN J.	IRRADIATION PROTECTION AND HISTOCOMPATIBILITY	5R01 CA03367-20	142,854
TRENTIN, JOHN J.	IMMUNOBIOLOGY OF CANCER	2P01 CA12093-05	167,206
TRENTIN, JOHN J.	IMMUNOBIOLOGY OF CANCER	5P01 CA12093-06	174,321
TWOMEY, JEREMIAH J.	RHEUMATOID FACTOR AND TUMOR-HOST INTERACTION	2R01 CA15333-03	37,423
TWOMEY, JEREMIAH J.	TYPE AND REACTIVITY OF CELLS RELEASED FROM LYMPHOMAS	2R01 CA16108-03	37,790
TWOMEY, JEREMIAH J.	DOES AUTOIMMUNE DYSFUNCTION CAUSE ATROPHIC GASTRITIS	5R01 CA17732-02	16,956
TWOMEY, JEREMIAH J.	THYMIC ACTIVITY IN PLASMA WITH THYMUS DISORDERS	1R01 CA19538-01	32,517
VON NOORDEN, GUNTER K.	CLINICAL AND LABORATORY STUDIES OF AMBLYOPIA	2R01 EY01120-04	72,927
WAKIL, SALIH J.	THE METABOLISM AND CONTROL OF FATTY ACIDS	5R01 GM19091-05	103,533
WAKIL, SALIH J.	THE METABOLISM AND CONTROL OF FATTY ACIDS	5R01 GM19091-06	126,120
WARNER, MARLENE	PERINATAL HORMONE-CARCINOGEN INTERACTIONS	1R01 CA12855-01	67,255
WILLIAMS, ROBERT P.	ANTIGONOCOCCAL RESPONSE OF NORMAL AND RESISTANT MEN	5R01 AI11830-03	5,695
WILSON, JOHN H.	ONCOGENIC MECHANISMS: SV40 AND HOST GENETIC ANALYSIS	5R01 CA15743-03	42,431
WRAY, GRANVILLE W.	ISOLATED CHROMOSOMES IN GENETICS AND CANCER RESEARCH	1R01 CA18455-01	53,812
WRAY, VIRGINIA P.	THE NUCLEAR ENVELOPE: ITS ROLE IN DRUG RESISTANCE	5R01 CA17844-02	39,401
WU, JANG-YEN	STUDIES OF NEURONAL AND GLIAL GLUTAMATE DECARBOXYLASES	1R01 NS13224-01	108,438
WYDE, PHILIP R.	IMMUNOPATHOLOGY OF INFLUENZA VIRUS PNEUMONIA	1R01 AI13905-01	47,712
ORGANIZATION TOTAL	114 16,755,956		
<b>RICE UNIVERSITY ZIP CODE 77001</b>			
ANSEVIN, KRISTYNA D.	IN VITRO DEVELOPMENT OF A 'SUBSTITUTE VASCULAR WALL	5R01 HL17527-02	34,542
BULTMANN, HERMANN	SEQUENCE ORGANIZATION IN THE DROSOPHILA GENOME	5R01 GM21985-02	37,087
CAMPBELL, JAMES W.	NITROGEN METABOLISM IN GASTROPOD MOLLUSCS	5R01 AI05006-13	28,641
FISHER, FRANK M, JR.	CHEMICAL BASIS OF PARASITISM	5R01 AI01384-17	37,197
FISHER, FRANK M, JR.	CHEMICAL BASIS OF PARASITISM	5R01 AI01384-18	32,741
GORDON, W E.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07103-10	48,220
HELLUMS, JESSE D.	EFFECTS OF PHYSICAL FORCES ON PLATELETS	1R01 HL18584-01	42,429
MATTHEWS, KATHLEEN S.	FLUORESCENCE STUDIES OF THE LACTOSE REPRESSOR PROTEIN	1R01 GM22441-01	49,397
MC INTIRE, LARRY V.	'PERFUSION LUNG'—ROLE OF TRAUMATIZED LEUKOCYTES	5R01 HL17437-02	65,180



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
MC INTIRE, LARRY V.....	DYNAMIC STUDIES OF CLOT STRUCTURE FORMATION.....	1R01 HL18672-01	37,589
OLSON, JOHN S.....	STUDY OF ALPHA AND BETA CHAINS IN HEMOGLOBIN.....	5R01 HL16093-03	28,676
PALMER, GRAHAM A.....	MOLECULAR MECHANISMS OF BIOLOGICAL REDOX REACTIONS.....	5R01 GM21337-02	86,151
QUIOCHO, FLORANTE A.....	STRUCTURE AND FUNCTION OF CREATINE KINASE.....	5R01 AM17008-03	38,326
QUIOCHO, FLORANTE A.....	STRUCTURE AND FUNCTION OF SUGAR BINDING PROTEINS.....	5R01 GM21371-02	42,045
RUDOLPH, FREDERICK B.....	REGULATION OF METABOLISM BY PURINE INTERCONVERSIONS.....	2R01 CA14030-04A1	42,706
SASS, RONALD L.....	STRUCTURAL AND CHEMICAL STUDY OF TISSUE CALCIFICATION.....	5R01 AM18582-02	43,535
SCHROEPFER, GEORGE J, JR.....	INTERMEDIARY METABOLISM OF STEROLS.....	5R01 HL15376-05	134,682
STEWART, CHARLES R.....	REGULATION OF EARLY EVENTS IN PHAGE INFECTION.....	5R01 GM17968-05	36,192
SUBTELNY, STEPHEN.....	GERM CELL MIGRATION AND DIFFERENTIATION.....	5R01 HD05289-05	39,397
TROELSTRA, ARNE.....	QUANTITATIVE BASIS FOR CLINICAL ELECTRORETINOGRAPHY.....	5R01 EY00921-02	46,572
WALKER, JAMES B.....	STREPTOMYCIN INACTIVATION MECHANISMS IN STREPTOMYCES.....	5R01 AI12278-02	32,457
WALKER, WILLIAM F.....	CATAPTION PHENOMENA NEAR PROSTHETIC DEVICES.....	5R01 HL17821-02	35,903
WENKERT, ERNEST.....	ALKALOID SYNTHESIS.....	5R01 GM21076-03	85,130
WENKERT, ERNEST.....	ALKALOID SYNTHESIS.....	5R01 GM21076-04	86,214
ORGANIZATION TOTAL	24	1,191,009	
<b>TEXAS HEART INSTITUTE ZIP CODE 77025</b>			
AKUTSU, TETSUZO.....	ARTIFICIAL HEART AND RELATED PROBLEMS.....	5R01 HL18084-02	183,510
REDDY, YERRADHODDI S.....	PHOSPHORYLATION OF MYOCARDIAL REGULATORY PROTEIN.....	7R01 HL20015-01	20,514
ORGANIZATION TOTAL	2	204,024	
<b>TEXAS INSTITUTE FOR REHABILITATION AND RESEARCH ZIP CODE 77030</b>			
FUHRER, MARCUS J.....	HABITUATION PROCESS STUDY OF HUMAN SPINAL CORD.....	5R01 NS07755-08	59,028
ORGANIZATION TOTAL	1	59,028	
<b>TEXAS SOUTHERN UNIVERSITY ZIP CODE 77004</b>			
SESSION, JOHN J.....	BIOMEDICAL RESEARCH IMPROVEMENT PROGRAM.....	5S06 RR08061-05	321,237
ORGANIZATION TOTAL	1	321,237	
<b>UNIVERSITY OF HOUSTON ZIP CODE 77004</b>			
BEAR, JOHN L.....	RHODIUM (II) COMPLEXES AS POTENTIAL ANTICANCER AGENTS.....	2R01 CA13817-04	45,146
BEAR, JOHN L.....	RHODIUM (II) COMPLEXES AS POTENTIAL ANTICANCER AGENTS.....	5R01 CA13817-05	48,123
BECKER, RALPH S.....	SPECTRA, THEORY, AND PHOTOCHEMISTRY OF VISION PIGMENTS.....	5R01 EY00875-05	27,318
BECKER, RALPH S.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07147-04	39,484
BUCKLEY, JOSEPH P.....	MECHANISMS IN ANGIOTENSIN INDUCED HYPERTENSION.....	5R01 HL17401-02	37,329
CAMERON, GUY N.....	ECOLOGICAL REGULATION OF POPULATIONS.....	5R01 AI12892-02	15,591
CATES, LINDLEY A, JR.....	ORGANOPHOSPHORUS ONCOLYTIC ANALOGS AND INHIBITORS.....	1R01 CA19882-01	23,825
DONAGHEY, CHARLES E.....	CELLS/M-FME COUPLING FOR CANCER RESEARCH.....	1R01 CA19995-01	45,443
DYCKES, DOUGLAS F.....	PROTEIN CONFORMATIONAL STUDIES BY MULTINUCLEAR NMR.....	1R01 GM22927-01	30,905
DYCKES, DOUGLAS F.....	A PROTEINASE INHIBITOR MODEL WITH CLINICAL POTENTIAL.....	1R01 HL19514-01	37,515
FELDMAN, STUART.....	ACETOHYDROXAMIC ACID PHARMACOKINETICS IN RATS AND MAN.....	1R01 AM19391-01	31,320
FRANKLIN, LUTHER E.....	MECHANISMS OF MAMMALIAN FERTILIZATION.....	5R01 HD07346-04	70,261
GRAY, HORACE B, JR.....	HYDRODYNAMICS OF CIRCULAR DNA FORMS.....	3R01 CA11761-06S1	4,531
GRAY, HORACE B, JR.....	NUCLEIC ACID MODIFICATION WITH SPECIFIC ENDONUCLEASES.....	5R01 GM21839-02	19,970
GREGORY, PAUL R.....	FERTILITY AND LABOR FORCE PATTERNS OF WOMEN.....	3R01 HD07993-01S1	7,001
HARWERTH, RONALD S.....	BEHAVIORAL MEASURES OF BINOCULAR VISION.....	5R01 EY01139-03	19,892
JEFFERY, WILLIAM R.....	STRUCTURE AND FUNCTION OF MESSENGER RIBONUCLEOPROTEIN.....	1R01 GM22885-01	49,559
KIMBALL, AUBREY P.....	MECHANISMS OF ACTION OF ANTICANCER DRUGS.....	5R01 CA12327-06	50,761
KOHN, HAROLD L.....	AN "IRREVERSIBLE ACID" TEST OF BIOCHEMICAL MECHANISMS.....	5R01 GM21790-02	33,761
LEVI, DENNIS M.....	CONTRAST SENSITIVITY IN AMBLYOPIA.....	1R01 EY01728-01	31,207
MAILMAN, DAVID S.....	CARDIOVASCULAR AND HORMONE EFFECTS ON GUT TRANSPORT.....	1R01 AM18964-01	49,977
SPRING, THOMAS G.....	AFFINITY LABELING OF GLYCOLYTIC ENZYMES.....	5R01 GM20479-03	18,618
SPRING, THOMAS G.....	INTERACTION OF HISTONES WITH NONHISTONE PROTEINS.....	5R01 GM21508-02	16,613
WELCH, STEVEN C.....	TOTAL SYNTHESIS OF ANTIFUNGAL ANTIBIOTICS.....	5R01 GM18759-05	33,577
WELCH, STEVEN C.....	TOTAL SYNTHESIS OF ANTIFUNGAL ANTIBIOTICS.....	5R01 GM18759-06	36,939
ORGANIZATION TOTAL	25	824,666	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON ZIP CODE 77025</b>			
ASSAF, SAID A.....	PROTEIN KINASE AND ENZYME REGULATION IN PLATELETS.....	1R01 HL16429-01A2	40,160

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
BLATTI, STANLEY P.	MOLECULAR BASIS OF GENE EXPRESSION IN EUKARYOTES.....	5R01 GM19494-05	42,669
BOOTH, FRANK W.	BIOCHEMICAL ADAPTATIONS OF DISUSE AND REHABILITATION.....	1R01 AM19393-01	37,866
BOYAN-SALYERS, BARBARA D.	THE ROLE OF LIPOPROTEINS IN MICROBIAL CALCIFICATION.....	5R23 DE04212-02	9,821
BROWN, LEE R.	STUDY OF THE ANTIMICROBIAL EFFECTS OF FLUORIDE.....	1R01 DE04542-01	49,898
CAPRIOLI, RICHARD M.	180 PROBE INTO THE MECHANISMS OF ACTION OF ALDOLASES.....	7R01 GM22862-01	25,523
CASTRO, GILBERT A.	PHYSIOLOGIC BASIS OF IMMUNITY IN TRICHINOSIS.....	5R01 AI1361-04	25,831
COOL, STEVEN J.	CORRELATES OF BINOCULAR VISUAL STIMULATION.....	3R01 EY00907-02S1	3,225
DE MOSS, JOHN A.	ASSEMBLY OF A MEMBRANE-BOUND MULTI-ENZYME COMPLEX.....	2R01 GM19511-05	85,335
DOWHAN, WILLIAM	STRUCTURE AND FUNCTION OF MEMBRANE PROTEINS.....	2R01 GM20478-04	52,644
DUPONT, HERBERT L.	A STUDY OF THE ETIOLOGY OF ACUTE DIARRHEA.....	5R01 AI12699-02	134,010
EVANS, DOLORES G.	VIRULENCE FACTORS OF E. COLI ENTEROTOXIGENIC FOR MAN.....	1R22 AI13385-01	41,910
FRIEDMANN, NAOMI	IONIC REGULATION OF GLUCONEOGENESIS.....	5R01 AM18083-03	46,463
GUYNN, ROBERT W.	EFFECT OF SEIZURE UPON ENERGY METABOLISM IN BRAIN.....	5R01 NS11484-03	17,467
GUYNN, ROBERT W.	REDOX CONTROL OF PTERIN-HYDROXYLASE SYSTEMS IN VIVO.....	5R01 NS12153-02	23,878
JACOBSON, EUGENE D.	RELATIONSHIP BETWEEN GASTRIC SECRETION AND BLOOD FLOW.....	5R01 AM15977-05	45,178
JACOBSON, EUGENE D.	INTESTINAL ISCHEMIA.....	1R01 AM18629-01	49,425
JOHNSON, LEONARD R.	G I HORMONES ON GROWTH AND METABOLISM OF G I MUCOSA.....	5R01 AM16505-04	41,032
JOHNSON, LEONARD R.	G I HORMONES ON GROWTH AND METABOLISM OF G I MUCOSA.....	5R01 AM16505-05	45,357
JOHNSON, LEONARD R.	ROLE OF FOOD IN THE GUT IN MAINTAINING GI FUNCTION.....	5R01 AM18164-02	46,884
KNUDSON, ALFRED G.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07148-03	21,269
MACKLER, BRUCE F.	MIT LYMPHOKINE INVOLVEMENT IN PERIODONTAL DISEASE.....	5R01 DE04172-02	38,285
MONTGOMERY, EDWARD H.	INITIATORS AND MEDIATORS IN PERIODONTAL DISEASE.....	5R01 DE03743-04	32,396
MONTGOMERY, EDWARD H.	INITIATORS AND MEDIATORS IN PERIODONTAL DISEASE.....	5R01 DE03743-05	34,230
NEI, MASATOSHI.	POPULATION DYNAMICS OF MUTANT GENES.....	2R01 GM20293-04	35,745
NELMS, D CADE	T-CELL FUNCTION IN RECURRENT APHTHOUS STOMATITIS.....	1R23 DE04458-01	9,000
O'NEILL, PEGGY A.	LYMPHOCYTE-MEDIATED CYTOTOXICITY IN PERIODONTAL DISEASE.....	5R01 DE04210-02	47,869
OLSON, JOHN V.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05344-14	38,336
ORTEZ, RICHARD A.	CYCLIC AMP AND HISTAMINE HYPERSENSITIVITY.....	5R23 HL18250-02	17,961
OVERTURF, MERRILL L.	LIPID VASODEPRESSORS FROM HUMAN TISSUES.....	5R01 HL15171-04	41,202
REDBURN, DIANNA A.	IDENTIFICATION OF TRANSMITTER AGENTS IN RETINA.....	1R01 EY01655-01	54,826
ROBISON, GEORGE A.	REGULATION OF CARDIAC ADENYLYL CYCLASE ACTIVITY.....	5R01 HL16552-02	54,648
ROSE, GEORGE G.	HISTOTYPIC LUNG TISSUE CULTURE IN CIRCUMFUSION SYSTEMS.....	1R01 HL19684-01	38,475
SANBORN, BARBARA M.	UTERINE RELAXING FACTORS: MOLECULAR ASPECTS OF ACTION.....	1R01 HD0918-01	39,712
SCHULL, WILLIAM J.	HEREDITY & OXYGEN: EFFECTS ON HEALTH OF HEART-LUNGS.....	2R01 HL15614-03	42,811
SHAW, MARGERY W.	STUDY OF HUMAN GENETICS.....	5P50 GM19513-04	791,192
SIMPSON, JOHN W.	COLLAGENOLYTIC ACTIVITY IN PERIODONTAL DISEASE.....	1R01 DE04485-01	34,000
SPERLING, HARRY G.	EXCITABILITY OF VISUAL PATHWAYS.....	5R01 EY00381-08	48,294
STANCEL, GEORGE M.	ESTROGEN CONTROL OF UTERINE GROWTH AND CELL DIVISION.....	5R01 HD08615-03	39,394
STEINBERGER, EMIL	GONADOTHPITUITARY AXIS IN THE RAT.....	5R01 HD06316-05	59,166
STEINBERGER, EMIL	APPROACHES TO THE CONTROL OF MALE REPRODUCTION.....	5P50 HD08338-02	421,423
STROBEL, HENRY W.	GASTROINTESTINAL HORMONES AND COLONIC CARCINOMA.....	1R26 CA19105-01A1	60,905
STROBEL, HENRY W.	DRUG METABOLISM IN LIVER TUMORS.....	1R01 CA19621-01	41,035
THOMPSON, W JOSEPH.	CYCLIC NUCLEOTIDE PHOSPHODIESTERASE(S) BIOLOGICAL ROLE.....	5R01 GM21361-03	50,994
TSUCHITANI, CHIYOKO	SINGLE UNIT ANALYSIS OF THE SUPERIOR OLIVARY COMPLEX.....	5R01 NS11218-04	54,041
TUTTLE, ROBERT L.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05745-04	88,934
WOOD, JOE G.	CYTOCHEMICAL INVESTIGATIONS OF ADRENERGIC NEURONS.....	5R01 NS10326-04	59,244
WRIGHT, ANTHONY A.	HUE DISCRIMINATION STUDIES.....	5R01 EY01256-02	26,385
ORGANIZATION TOTAL	48 3,186,348		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER ZIP CODE 77025</b>			
ALEXANIAN, RAYMOND	BONE MARROW KINETICS.....	5R01 AM09155-12	36,683
ALEXANIAN, RAYMOND	SOUTHWEST ONCOLOGY GROUP.....	5R10 CA03195-19	46,336
ANSEVIN, ALLEN T.	A PHYSICAL APPROACH TO GENOMIC ANALYSIS.....	1R01 GM23067-01	45,919
ARLINGHAUS, RALPH B.	BIOSYNTHESIS OF ONCORNAVIRUS PROTEINS.....	5R01 CA15495-02	17,343
ARLINGHAUS, RALPH B.	BIOSYNTHESIS OF RAUSCHER MURINE LEUKEMIA VIRAL PROTEINS.....	1R01 CA18248-01	48,119
BECKER, FREDERICK F.	ANALYSIS OF CHROMATIN DURING CHEMICAL CARCINOGENESIS.....	1R01 CA20131-01	82,551
BECKER, FREDERICK F.	PHENOTYPIC ANALYSIS OF CHEMICAL CARCINOGENESIS.....	7R01 CA20657-01	83,397
BECKER, FREDERICK F.	ANALYSIS OF CELLULAR EVENTS IN CHEMICAL CARCINOGENESIS.....	7R01 CA20659-01	91,589
BLUMENSCHIEIN, GEORGE R.	CLINICAL CANCER.....	1R25 CA19808-01	165,767
BLUMENSCHIEIN, GEORGE R.	PRIMARY BONE AND SOFT TISSUE SARCOMA.....	1R13 CA20273-01	20,244

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
BODEY, GERALD P.	INFECTION IN CANCER PATIENTS	3R10 CA10042-08S1	330,071
CLARK, R LEE	CANCER CLINICAL RESEARCH	2P01 CA05831-15A1	1,046,697
CLARK, R LEE	1977 ANNUAL SYMPOSIUM ON FUNDAMENTAL CANCER RESEARCH	1R13 CA19261-01	33,977
CLARK, R LEE	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05511-14	261,305
COPELAND, MURRAY M.	NATIONAL STUDY OF LARGE BOWEL CANCER	5R26 CA14140-04	386,434
CORRY, PETER M.	PREFERENTIAL KILLING OF MELANIZED TISSUES	5R01 CA17891-02	51,448
DMOCHOWSKI, LEON	STUDY OF ONCOGENIC VIRUSES IN HUMAN PROSTATE CANCER	5R26 CA15438-04	131,134
DREWINKO, BENJAMIN	BIOLOGICAL STUDIES OF HUMAN MULTIPLE MYELOMA	5R01 CA16021-02	79,425
DREWINKO, BENJAMIN	ANTITUMOR AGENTS ON HUMAN COLON CARCINOMA CELLS	2R26 CA16763-03	41,055
DREWINKO, BENJAMIN	EVALUATION OF THE IMMUNE RESPONSE TO LYMPHOMA ANTIGENS	5R01 CA17072-02	57,399
EAST, JAMES L.	RELATEDNESS OF RNA TUMOR VIRUSES AND HUMAN NEOPLASIA	5R01 CA16781-02	67,058
FLETCHER, GILBERT H.	EVALUATION OF SUPERVOLTAGE THERAPY	5R01 CA05654-16	75,886
FLETCHER, GILBERT H.	EXTENSION OF RADIOTHERAPY RESEARCH	5P01 CA06294-15	1,442,825
FLETCHER, GILBERT H.	FAST NEUTRON THERAPY WITH TAMVEC CYCLOTRON	3P01 CA12542-04S1	20,996
FLETCHER, GILBERT H.	FAST NEUTRON THERAPY WITH TAMVEC CYCLOTRON	5P01 CA12542-05	853,589
FREIREICH, EMIL J.	SOUTHWEST ONCOLOGY GROUP	5R10 CA10376-09	229,295
FREIREICH, EMIL J.	THERAPEUTIC RESEARCH IN CANCER	5P01 CA11520-07	768,160
FREIREICH, EMIL J.	STUDY OF CANCER CHEMOTHERAPY	5P01 CA14528-03	272,925
FREIREICH, EMIL J.	DEVELOPMENTAL THERAPEUTICS	2P01 CA14528-04	782,649
FREIREICH, EMIL J.	INFECTIONS IN CANCER PATIENTS	1R01 CA19806-01	224,318
GEHAN, EDMUND A.	COOPERATIVE CANCER CHEMOTHERAPY STUDY (STATISTICAL)	3R10 CA12014-06S1	24,439
GEHAN, EDMUND A.	COOPERATIVE CANCER CHEMOTHERAPY STUDY (STATISTICAL)	5R10 CA12014-07	506,330
GEHAN, EDMUND A.	DECISION MAKING FOR PATIENTS WITH ACUTE LEUKEMIA	5R01 CA15250-03	178,544
GRDINA, DAVID J.	RADIATION RESPONSE OF CELLS SEPARATED FROM TUMORS	1R01 CA18628-01	56,183
GUTTERMAN, JORDAN U.	CELL-ASSOCIATED TUMOR IMMUNITY IN ACUTE LEUKEMIA	5R01 CA15009-03	42,503
HAIDLE, CHARLES W.	INTERACTION OF ANTICANCER DRUGS WITH MACROMOLECULES	5R01 CA13246-05	47,833
HERSH, EVAN M.	IMMUNOLOGICAL ASPECTS OF CANCER PROGNOSIS	5R01 CA14984-03	88,969
HERSH, EVAN M.	INHIBITORS OF NORMAL AND MALIGNANT LYMPHOID TISSUE	5R01 CA14986-03	62,678
HEVEZI, JAMES M.	RADIOMAMMOGRAPHY WITH LESS THAN 150 MR PER EXPOSURE	1R01 CA19976-01	108,533
HEWITT, ROGER R.	ORIGIN AND DIAGNOSTIC VALUE OF HUMAN SERUM DNASES	1R26 CA20142-01	41,532
HICKEY, ROBERT C.	CORE SUPPORT GRANT—COMPREHENSIVE	5P30 CA16672-02	1,143,193
HSU, T C.	MONITORING MUTAGENS WITH MAMMALIAN CHROMOSOMES	1R01 ES01304-01	112,159
HUMPHREY, RONALD M.	RELATIONSHIP OF REPAIR AND RECOVERY IN MAMMALIAN CELLS	5R01 CA04484-18	120,096
HUMPHREY, RONALD M.	CELL CYCLE RELATED DNA REPAIR MECHANISMS	1R01 CA19281-01	54,685
JOHNSON, DOUGLAS E.	CHEMOTHERAPY FOR THE NATIONAL PROSTATIC CANCER PROJECT	2R26 CA15107-03	64,534
JOHNSON, DOUGLAS E.	ADRIAMYCIN VS VM26-ADRIAMYCIN-METASTATIC BLADDER CANCER	5R26 CA17972-02	39,555
LIAU, MING C.	NUCLEOLAR SYNTHESIS AND MODIFICATION OF RNA	5R01 CA15086-03	59,998
LOTZOVA, EVA	GROWTH CONTROL OF HUMAN HEMOPOIETIC CELLS	1R01 CA21062-01	42,120
MAVLIGIT, GIORA M.	ADJUVANT IMMUNOTHERAPY TO SURGERY IN COLORECTAL CANCER	5R26 CA15458-03	157,698
MC KELVEY, EUGENE M.	SOUTHWEST ONCOLOGY GROUP	5R10 CA10379-08	90,125
MEISTRICH, MARVIN L.	MUTAGENIC ACTION OF CANCER THERAPY ON TESTIS CELLS	5R01 CA17364-02	56,853
MOORE, E COLLEEN	BIOSYNTHESIS AND ROLE OF DEOXYNUCLEOTIDES	5R01 CA04464-18	57,761
MURGOLA, EMANUEL J.	MISSENSE SUPPRESSION AND MUTATIONALLY ALTERED TRNAS	5R01 GM21499-02	26,684
NISHIOKA, KENJI	SERUM POLYAMINE ANALYSIS IN COLON & RECTAL CARCINOMA	5R26 CA18041-02	64,802
PAINTER, JOSEPH T.	CANCER CONTROL DEVELOPMENT	2R18 CA16413-02	237,888
PAINTER, JOSEPH T.	CANCER CONTROL PROGRAM FOR FAMILY PRACTITIONERS	1R18 CA19460-01	203,796
RAO, POTU N.	PREDICTING RESPONSE OF HUMAN TUMORS TO CANCER DRUGS	5R01 CA16480-02	52,010
RAO, POTU N.	PREDICTING RESPONSE OF HUMAN TUMORS TO CANCER DRUGS	5R01 CA16480-03	52,777
RAO, POTU N.	DRUG SCHEDULES & CELL CYCLE KINETICS IN ANIMAL TUMORS	1R01 CA19856-01	69,612
RAO, POTU N.	THE MOLECULAR BASIS OF CHROMOSOME ABERRATIONS	1R01 GM23252-01	84,652
RICHE, ELLEN S.	LYMPHOID CELL SUBPOPULATIONS IN LYMPHOCTIC LEUKEMIA	1R01 CA20763-01	36,316
ROBBEYSON, DONALD L.	REGULATION OF MITOCHONDRIAL DNA REPLICATION	5R01 CA16527-02	55,508
SAUNDERS, PRISCILLA P.	MOLECULAR MECHANISMS OF DRUG ACTION	2R01 CA12429-04A1	54,495
SAUNDERS, PRISCILLA P.	MOLECULAR MECHANISMS OF DRUG ACTION	5R01 CA12429-05	54,346
SCHLAMOWITZ, MAX	CELL MEMBRANE RECEPTORS FOR MATERNOFETAL TRANSFER OF IGG	5R01 HD07752-03	44,347
SHALEK, ROBERT J.	SUPPORT FOR RADIOLOGICAL PHYSICS CENTER	3R10 CA10953-07S1	38,249
SHALEK, ROBERT J.	RADIOLOGICAL PHYSICS CENTER	2R10 CA10953-08	188,139
SHALEK, ROBERT J.	RADIOLOGICAL PHYSICS CENTER	5R10 CA10953-09	243,073
SHAW, CHARLES R.	HYDROCARBON METABOLIZING ENZYMES AND COLON CANCER	5R26 CA15969-03	49,476
SHAW, CHARLES R.	SUPPORT FOR CARCINOGENESIS PLANNING CENTER	1P20 CA19586-01	44,817



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
SHAW, CHARLES R.....	GENETIC AND COMPARATIVE STUDIES OF ENZYMES.....	5R01 GM15597-09	81,336
SICILIANO, MICHAEL J.....	MULTIPLE LOCI SCREEN FOR MUTATIONS IN MAMMALIAN CELLS.....	1R01 ES01287-01	96,609
SICILIANO, MICHAEL J.....	MULTIPLE LOCI SCREEN FOR MUTATIONS IN MAMMALIAN CELLS.....	5R01 ES01287-02	93,198
TRUJILLO, JOSE M.....	CYTOLOGICAL STUDIES IN HUMAN LEUKEMIA.....	5R01 CA12687-05	141,123
VAN EYS, JAN.....	SOUTHWEST ONCOLOGY GROUP (PEDIATRIC).....	5R10 CA03713-19	126,804
WALBORG, EARL F, JR.....	PLASMA MEMBRANE GLYCOPROTEINS: ALTERATIONS IN NEOPLASIA.....	1R01 CA18829-01	35,753
WARD, DARRELL N.....	CHEMISTRY OF LUTEINIZING AND RELATED HORMONES.....	2R01 AM09801-11	154,002
WARD, DARRELL N.....	CHEMISTRY OF LUTEINIZING AND RELATED HORMONES.....	5R01 AM09801-12	118,996
WITHERS, H RODNEY.....	THE RADIOBIOLOGY OF NORMAL TISSUES.....	5R01 CA11138-08	84,265
WITHERS, H RODNEY.....	ANTITUMOR ACTIVITY OF CORYNEBACTERIUM PARVUM.....	5R01 CA17769-02	56,985
ZIMMERMAN, STUART O.....	BIOMATHEMATICS AND COMPUTING IN A CANCER INSTITUTE.....	5R01 CA11430-11	379,216
ORGANIZATION TOTAL	81	13,920,189	

### KINGSVILLE

**TEXAS AGRICULTURAL AND INDUSTRIAL UNIVERSITY      ZIP CODE 78363**

PEREZ, JOHN C.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08107-02	83,203
PEREZ, JOHN C.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08107-03	44,870
ORGANIZATION TOTAL	2	128,073	

### LUBBOCK

**TEXAS TECH UNIVERSITY      ZIP CODE 79409**

ANDERSON, JOHN A.....	CLAVINE ALKALOID BIOSYNTHESIS.....	5R01 GM17830-05	22,156
BARNES, CHARLES D.....	DRUG EFFECTS ON VESTIBULAR NEURONS.....	7R01 NS13203-01	13,481
BARTHOLOMEW, BRUCE A.....	CELL MEMBRANES AND GLYCOSIDASE ACTIVITY IN ARTHRITIS.....	5R01 AM17670-02	19,500
BEHAL, FRANCIS J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05773-02	19,665
ELIAS, JEFFREY W.....	AGE AND LATERALITY EFFECTS IN INFORMATION PROCESSING.....	5R01 AG00237-02	19,188
FRALICK, JOE A.....	ROLE OF THE BACTERIAL MEMBRANE IN DNA REPLICATION.....	5R01 GM22238-02	26,350
GEORGE, JOHN E.....	THE ECOLOGY AND SENSORY PHYSIOLOGY OF TICKS.....	5R01 AI09591-05	12,645
GEORGE, JOHN E.....	THE ECOLOGY AND SENSORY PHYSIOLOGY OF TICKS.....	5R01 AI09591-06	12,834
HOLLOWAY, LEWIS S, JR.....	THE ROLE OF THE CENTRAL NERVOUS SYSTEM IN SEPTIC SHOCK.....	5R01 HL16244-03	18,304
HUGHES, MAYSIE J.....	HISTAMINE ACTION ON HEART MUSCLE AND ITS RECEPTOR.....	5R01 HL16240-03	28,961
JONES, RANDALL T.....	SEARCH FOR BACTERIOPHAGES ACTIVE ON N. GONORRHOEAE.....	5R01 AI12120-03	14,963
JOYS, TERENCE M.....	BACTERIAL FLAGELLA: STRUCTURE, SPECIFICITY AND CONTROL.....	7R01 AI14002-01	35,238
KENNY, ALEXANDER D.....	CALCIUM HOMEOSTASIS: ENDOCRINE AND COMPARATIVE ASPECTS.....	7R01 AM19475-01	12,274
KENNY, ALEXANDER D.....	CALCIUM HOMEOSTASIS: ENDOCRINE AND COMPARATIVE ASPECTS.....	5R01 AM19475-02	61,795
LOYD, KENNETH O.....	IMMUNOCHEMICAL STUDIES ON FUNGAL POLYSACCHARIDES.....	2R01 AI12561-02	35,843
LOMBARDINI, JOHN B.....	ENZYMATIC SYNTHESIS AND FUNCTION OF ISETHIONIC ACID.....	5R01 NS11406-03	20,493
MARKWALD, ROGER R.....	MUCOPOLYSACCHARIDE METABOLISM IN CARDIAC ANOMALIES.....	1R01 HL19136-01	42,060
MORROW, KENNETH J, JR.....	CHARACTERIZATION OF MALIGNANT CELL VARIANTS.....	5R01 CA16207-03	44,937
PEREZ, VERNON J.....	REGIONAL CNS UPTAKE OF AMINO ACIDS.....	7R01 NS12973-01	28,101
SEVALL, JACK S.....	ANALYSIS OF DNA BINDING NONHISTONE CHROMOSOMAL PROTEINS.....	1R01 GM22653-01	41,483
SONG, PILL-SOON.....	INTERACTIONS BETWEEN DNA AND SKIN-SENSITIZING COUMARINS.....	5R01 CA13598-05	20,556
SONG, PILL-SOON.....	CONFIGURATION ANALYSIS/ELECTRON EXCITATION/BIOMOLECULES.....	1R01 GM23089-01	35,070
STERRETT, PATRICK R.....	CONTRAST MATERIALS AND THE BLOOD-BRAIN BARRIER.....	5R01 NS11883-02	24,357
STERRETT, PATRICK R.....	CONTRAST MATERIALS AND THE BLOOD-BRAIN BARRIER.....	2R01 NS11883-03	37,413
YEE, JOHN A.....	CYTODIFFERENTIATION OF PERIODONTAL LIGAMENT FIBROBLASTS.....	1R23 DE04371-01	11,309
ORGANIZATION TOTAL	25	658,976	

### PRAIRIE VIEW

**TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—PRAIRIE VIEW AGRI. AND MECH. UNIVERSITY      ZIP CODE 77445**

BERRY, JEWEL E.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	3S06 RR08094-01A1S1	217
BERRY, JEWEL E.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08094-02	50,850
ORGANIZATION TOTAL	2	51,067	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
<b>RICHARDSON</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT DALLAS ZIP CODE 75080</b>			
BREMER, HANS.....	REGULATION OF BACTERIAL GROWTH.....	2R01 GM15142-08	111,579
CLOWES, ROYSTON C.....	INFECTIOUS DRUG RESISTANCE PLASMIDS.....	5R01 AI10468-05	86,704
GERKEN, GEORGE M.....	EFFECTS OF DEAFNESS ON CENTRAL AUDITORY FUNCTION.....	5R01 NS08612-05	54,206
GRAY, DONALD M.....	SEQUENCE-DEPENDENCE OF POLYNUCLEOTIDE CONFORMATION-II.....	5R01 GM19060-05	55,934
HARM, WALTER F.....	BACTERIA & PHAGE RECOVERY FROM ULTRAVIOLET DAMAGE.....	5R01 GM12813-10	48,653
JAGGER, JOHN.....	ACTION OF NEAR-ULTRAVIOLET RADIATION ON CELLS.....	2R01 AM14893-06	102,128
JAGGER, JOHN.....	ACTION OF NEAR-ULTRAVIOLET RADIATION ON CELLS.....	5R01 AM14893-07	91,695
JAGGER, JOHN.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07133-07	42,343
LANG, DIMITRI.....	ELECTRON MICROSCOPY OF DNA OF CELLS AND VIRUSES.....	5R01 GM20851-03	54,167
MOUSHEGIAN, GEORGE.....	BINAURAL NEUROPHYSIOLOGY.....	5R01 NS07925-05	75,251
MOUSHEGIAN, GEORGE.....	BINAURAL NEUROPHYSIOLOGY.....	2R01 NS07925-06	57,926
PATRICK, MICHAEL H.....	FUNCTION AND REGULATION OF DNA REPAIR PROCESSES.....	5R01 AG00485-05	50,179
PATRICK, MICHAEL H.....	FUNCTION AND REGULATION OF DNA REPAIR PROCESSES.....	5R01 AG00485-06	52,596
RUPERT, CLAUD S.....	REPAIR OF RADIATION-DAMAGED NUCLEIC ACID.....	5R01 GM16547-11	77,395
SHERRY, ALLAN D.....	LANTHANIDE IONS AS SPECTROSCOPIC RULERS IN CON A.....	5R01 AM16947-03	25,773
ORGANIZATION TOTAL	15	986,529	
<b>SAN ANTONIO</b>			
<b>SOUTHWEST FOUNDATION FOR RESEARCH AND EDUCATION ZIP CODE 78284</b>			
GOLAND, MARTIN.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05519-14	60,133
GREENE, NATHAN D.....	ENVIRONMENTAL POLLUTANTS AND ALLERGIC HYPERSENSITIVITY.....	5R01 ES01153-02	62,197
KALTER, SEYMOUR S.....	REFERENCE CENTER FOR THE STUDY OF VIRUSES.....	5P40 RR00361-10	271,902
KUNTZ, ROBERT E.....	BLADDER CANCER IN SCHISTOSOMIASIS HAEMATOBIA.....	3R01 CA13208-03S2	66,136
KUNTZ, ROBERT E.....	BLADDER CANCER IN SCHISTOSOMIASIS HAEMATOBIA.....	2R01 CA13208-04A1	84,950
KUNTZ, ROBERT E.....	SCHISTOSOMIASIS: BIOLOGY S. HAEMATOBIIUM COMPLEX.....	5R01 CA16972-09	64,986
MYERS, BETTY J.....	LARVAL SCHISTOSOMES: CHARACTERIZATION AND DEVELOPMENT.....	5R22 AI12401-02	34,601
PURDY, ROBERT H.....	RADIOIMMUNOASSAY OF MELATONIN AND ITS METABOLITES.....	5R01 AM18264-02	71,580
RAO, PEMMARAJU N.....	SYNTHESIS OF NEW STEROID HAPTENS FOR RADIOIMMUNOASSAY.....	5R01 AM17069-02	116,266
ROWLANDS, JOHN R.....	EFFECTS OF POLLUTANTS UPON ALVEOLAR MACROPHAGES.....	5R01 ES01162-02	91,566
SHAIKH, ABUBAKAR A.....	CONTRACEPTION BY INDUCTION OF LUTEOLYSIS.....	5R01 HD09964-02	120,964
ORGANIZATION TOTAL	11	1,045,281	
<b>TRINITY UNIVERSITY ZIP CODE 78284</b>			
ESPEY, LAWRENCE L.....	DYNAMICS OF OVULATION.....	3R01 HD06371-03S1	5,139
ESPEY, LAWRENCE L.....	DYNAMICS OF OVULATION.....	2R01 HD06371-04	42,119
ORGANIZATION TOTAL	2	47,258	
<b>UNITED COLLEGES OF SAN ANTONIO ZIP CODE 78212</b>			
HEALY, SISTER MARY D.....	MULTIDISCIPLINARY BIOMEDICAL RESEARCH PROGRAM.....	5S06 RR08077-04	234,726
ORGANIZATION TOTAL	1	234,726	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT SAN ANTONIO ZIP CODE 78285</b>			
AYLING, JUNE E.....	INHIBITION OF PTERIDINE ENZYMES IN CANCER CHEMOTHERAPY.....	7R01 CA20708-01	72,107
MC KINNEY, THEODORE D.....	SOCIAL ENVIRONMENT AND REPRODUCTION IN SMALL RODENTS.....	5R01 HD08545-02	27,517
PHILLIPS, JERRY L.....	ROLE OF ZINC TRANSFERRIN IN LYMPHOCYTE TRANSFORMATION.....	7R01 HL19132-01	44,055
PHILLIPS, JERRY L.....	ROLE OF ZINC TRANSFERRIN IN LYMPHOCYTE TRANSFORMATION.....	5R01 HL19132-02	48,815
ORGANIZATION TOTAL	4	192,494	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO ZIP CODE 78284</b>			
ADRIAN, ERLE K, JR.....	CELL PROLIFERATION IN INJURED NERVOUS TISSUE.....	5R01 NS08949-07	33,584
AUST, J BRADLEY.....	PRIMARY BREAST CANCER THERAPY GROUP.....	5R10 CA12029-05	23,016
AUST, J BRADLEY.....	CENTRAL ONCOLOGY GROUP.....	3R10 CA12275-05S1	21,170
BECK, NAMA.....	CATECHOLAMINES AND CYCLIC AMP IN CARDIOVASCULAR SYSTEM.....	1R01 HL19057-01	89,052
BISHOP, VERNON S.....	EVALUATION OF LEFT VENTRICULAR FUNCTION.....	5R01 HL12415-08	71,646
BROOKS, BARBARA A.....	VISUAL PROCESSING DURING EYE MOVEMENT.....	3R01 EY01497-02S1	2,994

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
BROOKS, BARBARA A.	VISUAL PROCESSING DURING EYE MOVEMENT	2R01 EY01497-03	52,198
BRUNELL, PHILIP A.	STUDIES OF VARICELLA-ZOSTER VIRUS INFECTION	5R01 AI12863-02	35,574
CAMERON, IVAN L.	PARENTERAL NUTRITION AND CANCER THERAPY	5R01 CA16831-02	46,746
CARRIER, OLIVER, JR.	MECHANISM OF DRUG-INDUCED SUPERSENSITIVITY	5R01 HL17899-02	32,245
CHATKOFF, MARVIN L.	MECHANICS OF OVUM TRANSPORT IN RABBIT OVIDUCT ISTHMUS	1R01 HD01194-01	34,589
DRUTZ, DAVID J.	RESPONSE OF HUMAN LEUKOCYTES TO NEISSERIA GONORRHOEA	5R01 AI12469-03	50,957
EARLEY, LAURENCE E.	PHYSIOLOGY AND PATHOPHYSIOLOGY OF KIDNEY FUNCTION	5P01 AM17387-03	180,271
ELBEIN, ALAN D.	BIOSYNTHESIS AND METABOLISM OF COMPLEX CARBOHYDRATES	5R01 AI09402-06	41,035
ELBEIN, ALAN D.	BIOSYNTHESIS AND METABOLISM OF COMPLEX CARBOHYDRATES	5R01 AI09402-07	29,539
ELBEIN, ALAN D.	PROTEIN: POLYANION BINDING; A MODEL FOR ATHEROSCLEROSIS	5R01 HL17302-02	45,798
ELBEIN, ALAN D.	PROTEIN: POLYANION BINDING; A MODEL FOR ATHEROSCLEROSIS	5R01 HL17302-03	48,588
ELBEIN, ALAN D.	COMPLEX CARBOHYDRATES; STRUCTURE, FUNCTION, SYNTHESIS	5R01 HL17783-02	31,645
FRIEDBERG, SAMUEL J.	O-ALKYL LIPIDS IN SURFACE MEMBRANES OF TUMOR CELLS	5R01 CA15047-02	43,300
GATES, GEORGE A.	COMPREHENSIVE REHABILITATION OF THE LARYNGECTOMEE	1R18 CA18629-01	90,518
GATES, GEORGE A.	COMPREHENSIVE REHABILITATION OF THE LARYNGECTOMEE	5R18 CA18629-02	69,761
GOLDSMITH, RALPH S.	VITAMIN D METABOLISM IN MAN	5R01 NM18349-03	48,489
HAGINO, NOBUYOSHI	EXTEROCEPTIVE AND NEUROENDOCRINE REGULATION OF OVULATION	7R01 HD10071-01	54,465
HAGINO, NOBUYOSHI	EXTEROCEPTIVE AND NEUROENDOCRINE REGULATION OF OVULATION	5R01 HD10071-02	56,847
HANAHAN, DONALD J.	BIOCHEMICAL STUDIES ON THE BLOOD COAGULATION PROCESS	1R01 HL18852-01	103,628
HARRISON, FRANK	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05654-09	154,454
HODGSON, BARRIE J.	OVIDUCTAL TRANSPORT OF PREIMPLANTATION EMBRYOS	5R01 HD09339-02	29,043
HORWITZ, LAWRENCE D.	LEFT VENTRICULAR FUNCTION IN EXERCISE	5R01 HL16656-03	82,880
HORWITZ, LAWRENCE D.	LEFT VENTRICULAR FUNCTION IN EXERCISE	5R01 HL16656-04	81,895
HOUSTON, MARSHALL L.	ULTRASTRUCTURE OF THE DEVELOPING BABOON PLACENTA	5R01 HD09151-02	22,493
JOHANSON, WALDEMAR G, JR.	DETERMINANTS OF LUNG BACTERIAL CLEARANCE	5R01 HL17890-02	37,072
KEENAN, ROY W.	THE METABOLISM AND FUNCTION OF THE POLYPRENOLS	5R01 AM17897-02	25,581
KNIKER, WILLIAM T.	IMMUNOLOGIC ASPECTS OF CANCER AND INFECTION IN PRIMATES	5R01 CA15842-02	73,948
KUNAU, ROBERT T, JR.	NEPHRON RESPONSE TO SYSTEMIC ACID BASE DISTURBANCES	7R01 AM18934-01	41,386
KUNAU, ROBERT T, JR.	ANGIOTENSIN, PROSTAGLANDINS, PRESSURE AND KIDNEY	7R01 HL15914-01	38,837
LEVINSON, CHARLES	PHOSPHATE TRANSPORT AND METABOLISM IN CARCINOMA CELLS	5R01 CA10917-08	36,359
MASORO, EDWARD J.	AN APPROACH TO THE BIOCHEMICAL BASIS OF AGING	5R01 AG00166-02	95,978
MASORO, EDWARD J.	PHYSIOLOGIC REGULATION OF LIPID METABOLISM	5R01 AM17476-03	42,772
MATTINGLY, STEPHEN J.	GROWTH CHARACTERISTICS OF STREPTOCOCCUS MUTANS	1R23 DE04444-01	10,000
MC GILL, HENRY C, JR.	EXPERIMENTAL ATHEROSCLEROSIS IN BABOONS	5P01 HL15914-03	679,231
MC GILL, HENRY C, JR.	EXPERIMENTAL ATHEROSCLEROSIS IN BABOONS	5P01 HL15914-04	716,587
MC GUIRE, WILLIAM L.	MECHANISM OF HORMONAL CONTROL OF MAMMARY CARCINOMA	5R01 CA11378-07	110,756
MC NAY, JOHN L, JR.	METABOLISM AND PHARMACOKINETICS OF AMPHOTERICIN B	1R01 GM23734-01	63,125
NISHIMURA, JONATHAN S.	MECHANISM OF ACTION OF SUCCINIC THIOKINASE	5R01 GM17534-06	47,540
NORLING, BARRY K.	HARD COATING OF DENTAL ROTARY CUTTING INSTRUMENTS	1R23 DE04407-01	10,000
OLSON, MERLE S.	REGULATION OF ENERGY METABOLISM IN LIVER	7R01 AM19473-01	24,652
OLSON, MERLE S.	INTEGRATED REGULATION OF MYOCARDIAL ENERGY METABOLISM	7R01 HL20544-01	53,986
PAQUE, RONALD E.	IMMUNOTHERAPY OF TUMORS WITH CELL LYSATES	1R01 CA17958-01A1	71,489
PAUERSTEIN, CARL J.	PHYSIOLOGY OF TUBAL OVUM TRANSPORT	1R01 HD09309-01A1	40,791
PINCKARD, ROBERT N.	FACTORS CONTROLLING HUMORAL ANTIBODY SYNTHESIS	7R01 AI13868-01	27,727
PINCKARD, ROBERT N.	COMPLEMENT ACTIVATION BY HEART SUBCELLULAR MEMBRANES	7R01 HL20394-01	53,474
RENNELS, EDWARD G.	IMMUNOCYTOLOGIC STUDIES ON PITUITARY GONADOTROPHINS	5R01 AM12583-08	34,660
REYNOLDS, EDWARD S.	DETECTION OF INJURY IN CELLULAR MEMBRANE SYSTEMS	7R01 AM19814-01	91,026
SEARS, DAVID A.	STUDIES OF ERYTHROCYTE AND PLATELET MEMBRANE PROTEIN	5R01 AM17137-02	65,577
SHEPHERD, ALBERT P, JR.	EXTRINSIC CONTROL OF INTESTINAL MICROCIRCULATION	5R01 HL18080-02	32,121
SHERIDAN, PETER J.	ANDROGEN RECEPTORS IN THE BRAIN	1R01 NS12933-01	64,103
STAVINOGA, WILLIAM B.	LABILE METABOLITES, TRANSMITTERS IN THE HEART CYCLE	5R01 HL17480-02	59,406
STAVINOGA, WILLIAM B.	LABILE METABOLITES, TRANSMITTERS IN THE HEART CYCLE	5R01 HL17480-03	61,330
STEIN, JAY H.	PHYSIOLOGY AND PATHOPHYSIOLOGY OF KIDNEY FUNCTION	2P01 AM17387-04	457,174
URBAN, ERNEST	STIMULATION AND MECHANISMS OF INTESTINAL TRANSPORT	5R01 AM16840-03	37,438
WEISMAN, ROBERT A.	ENCYSTMENT IN FREE-LIVING, INVASIVE AMOEBAS	5R01 AI10241-06	37,910
WHARTON, DAVID C.	PROPERTIES OF CYTOCHROME OXIDASE	5R01 HL16686-02	54,337
WILLIAMS, VICK F.	ULTRASTRUCTURAL ASPECTS OF INJURED CEREBRAL CORTEX	5R01 NS09693-06	21,352
WINBORN, WILLIAM B.	ELECTRON MICROSCOPIC STUDIES OF PARIETAL CELLS	5R01 AM12950-08	38,825
WINTERS, WENDELL D.	ANALYSIS OF IMMUNE RESPONSE IN LYMPHOSARCOMAS	7R01 CA20555-01	49,704
ORGANIZATION TOTAL	65	5,114,674	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>TEXAS—Continued</b>			
<b>TEMPLE</b>			
<b>SCOTT AND WHITE MEMORIAL HOSPITAL</b>		<b>ZIP CODE 76501</b>	
BONNET, JOHN D.....	SOUTHWEST ONCOLOGY GROUP.....	3R10 CA10187-07S1	1,156
BONNET, JOHN D.....	SOUTHWEST ONCOLOGY GROUP.....	5R10 CA10187-08	45,707
COUTLER, JOHN B, III.....	MEASUREMENT OF INSULIN IN AQUEOUS AND VITREOUS OF RABBIT.....	5R01 EY00404-06	35,252
ORGANIZATION TOTAL	3 82,115		
STATE TOTAL	772 68,979,371		
<b>UTAH</b>			
<b>LOGAN</b>			
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UTAH STATE UNIVERSITY</b>		<b>ZIP CODE 84322</b>	
BOEKER, ELIZABETH A.....	HISTAMINE BIOSYNTHESIS.....	5R01 GM22546-02	20,192
EMERY, THOMAS F.....	MICROBIAL METABOLISM OF HYDROXYLAMINO COMPOUNDS.....	5R01 AI09580-06	39,111
HANSEN, ROGER G.....	PANTOTHENIC ACID NUTRITIONAL STATUS OF HUMANS.....	1R01 AM18746-01	50,765
LANGERMAN, NEAL R.....	THERMODYNAMIC STUDIES OF PROTEIN REACTIONS: LUCIFERASE.....	5R01 GM22049-02	41,613
LANGERMAN, NEAL R.....	THERMODYNAMIC STUDIES OF NUCLEOTIDE SYNTHESIS.....	5R01 GM22676-02	16,676
OLSEN, RICHARD K.....	SYNTHESIS OF EPIDITHIOPIPERAZINEDIONE ANTIBIOTICS.....	5R01 AI11978-03	24,159
OLSEN, RICHARD K.....	THE SYNTHESIS OF QUINOXALINE ANTIBIOTICS.....	5R01 CA10653-09	30,551
PETERSON, DEAN F.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07093-10	22,016
SPENCE, JACK T.....	THE FUNCTION OF MOLYBDENUM IN BIOLOGICAL SYSTEMS.....	5R01 GM08347-16	35,851
YOUSSEF, NABIL N.....	DEVELOPMENT OF MAMMALIAN COCCIDIA IN CULTURED CELLS.....	5R01 AI07488-10	32,361
ORGANIZATION TOTAL	10 313,295		
<b>PROVO</b>			
<b>BRIGHAM YOUNG UNIVERSITY</b>		<b>ZIP CODE 84602</b>	
ANDERSEN, FERRON L.....	EPIDEMIOLOGY OF ECHINOCOCCOSIS.....	5R01 AI10588-05	53,115
ANDERSEN, FERRON L.....	EPIDEMIOLOGY OF ECHINOCOCCOSIS.....	5R01 AI10588-06	51,292
CHRISTENSEN, JAMES J.....	ROLE OF CHROMIUM IN LIPID AND CARBOHYDRATE METABOLISM.....	3R01 AM15615-03S2	1,631
DALLEY, N KENT.....	X-RAY STUDY OF METAL-CYCLOC POLYETHER COMPLEXES.....	2R01 GM18811-04	36,119
GUBLER, CLARK J.....	PHYSIOLOGICAL FUNCTIONS AND METABOLISM OF THIAMINE.....	2R01 AM02448-17A1	49,059
SAGERS, RICHARD D.....	ENZYMES AND COFACTORS RELATED TO GLYCINE METABOLISM.....	5R01 GM20778-07	36,555
TIPTON, VERNON J.....	FLEAS OF NORTH AMERICAN ECOLOGY AND SYSTEMATICS.....	5R01 AI11292-02	42,157
TIPTON, VERNON J.....	FLEAS OF NORTH AMERICAN ECOLOGY AND SYSTEMATICS.....	5R01 AI11292-03	30,270
ORGANIZATION TOTAL	8 300,198		
<b>SALT LAKE CITY</b>			
<b>LATTER-DAY SAINTS HOSPITAL SYSTEM</b>		<b>ZIP CODE 84143</b>	
BEAN, LEE L.....	POPULATION STUDIES OF MORMON GENEALOGIES.....	1R01 HD10267-01	45,697
ORGANIZATION TOTAL	1 45,697		
<b>LATTER-DAY SAINTS HOSPITAL SYSTEM—LATTER-DAY SAINTS HOSPITAL</b>		<b>ZIP CODE 84143</b>	
ALTMAN, STANLEY J.....	CENTRAL ONCOLOGY GROUP.....	3R10 CA12273-05S1	23,931
PLENK, HENRY P.....	RADIATION THERAPY ONCOLOGY GROUP.....	1R10 CA17906-01A1	36,008
PRYOR, T ALLAN.....	COMPUTER CONTROLLED TWO-DIMENSIONAL ECHOCARDIOGRAPHY.....	2R01 HL16487-03	36,710
SKOLNICK, MARK H.....	CANCER INCIDENCE AND RISK FACTORS BY KINSHIP.....	5R01 CA16573-02	148,616
ORGANIZATION TOTAL	4 245,265		
<b>LATTER-DAY SAINTS HOSPITAL SYSTEM—PRIMARY CHILDREN'S MEDICAL CENTER</b>		<b>ZIP CODE 84103</b>	
VEASY, L GEORGE.....	THERMODILUTION FOR MONITORING SHUNTS IN NEONATES.....	3R01 HL16234-02S1	3,431
ORGANIZATION TOTAL	1 3,431		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>UTAH—Continued</b>			
UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH      ZIP CODE 84112			
ABILDSKOV, J. A.	CARDIAC ELECTROPHYSIOLOGY.....	2P01 HL13480-06	456,386
ABILDSKOV, J. A.	CARDIAC ELECTROPHYSIOLOGY.....	5P01 HL13480-07	435,581
ABILDSKOV, J. A.	DEFINITION OF HIGH RISK CARDIAC STATES.....	5R01 HL18788-02	38,257
ANDRADE, JOSEPH D.	SENTINEL HYDROGELS AS BLOOD TOLERABLE MATERIALS.....	5R01 HL16921-02	90,177
ANDRADE, JOSEPH D.	ALBUMIN, ENDOTHELIUM, AND HEMOCOMPATIBILITY.....	1R01 HL18519-01	92,665
ATHENS, JOHN W.	SOUTHWEST ONCOLOGY GROUP.....	5R10 CA13238-05	77,901
ATHENS, JOHN W.	CLINICAL CANCER EDUCATION PROGRAM.....	5R25 CA18013-02	113,976
BENTRUDE, WESLEY G.	GEOMETRIES OF C-AMP AND CYCLOPHOSPHAMIDE ANALOGS.....	5R01 CA11045-08	72,268
BOEHM, ROBERT F.	DEVELOPMENT OF NEW PROCESSES FOR PREVENTIVE DENTISTRY.....	5R01 DE03554-04	63,837
BROOM, ARTHUR D.	POLYRIBONUCLEOTIDES AS TUMOR AND VIRUS INHIBITORS.....	2R01 CA11935-06	88,224
BROOM, ARTHUR D.	PYRIDOPYRIMIDINES AS ANTITUMOR AGENTS.....	5R01 CA12823-05	46,244
BROWN, HAROLD M.	TRANSDUCTION MECHANISM OF PHOTORECEPTORS.....	3R01 EY00762-04S1	10,589
BROWN, HAROLD M.	TRANSDUCTION MECHANISM OF PHOTORECEPTORS.....	2R01 EY00762-05	108,839
BURGESS, MARY J.	BASIC AND CLINICAL STUDIES OF THE ST-T DEFLECTION.....	5R01 HL12611-08	82,299
BURGESS, PAUL R.	GROWTH AND INFORMATION SIGNALLING IN A SENSORY SYSTEM.....	5R01 NS08769-07	53,553
BURKE, JOHN P.	CONTROL OF HOSPITAL-ACQUIRED URINARY TRACT INFECTIONS.....	2R01 AI11950-03	56,157
CAPECCHI, MARIO R.	THE CONTROL, ASSEMBLY AND TERMINATION OF PROTEINS.....	5R01 GM21168-03	85,496
CARDINAL, JOHN R.	CONTROLLED RELEASE OF PROGESTINS IN POLYMERIC SYSTEMS.....	1R01 HD09791-01	31,040
CARROLL, DANA.	DEVELOPMENTAL REGULATION OF SPECIFIC EUKARYOTIC GENES.....	2R01 DE2232-02	51,986
CARTWRIGHT, GEORGE E.	INVESTIGATIONS IN HEMATOLOGY.....	5P01 AM04489-16	295,281
CARTWRIGHT, GEORGE E.	INVESTIGATIONS IN HEMATOLOGY.....	5P01 AM04489-17	302,509
CASIENS, SHERWOOD R.	BACTERIOPHAGE P22 ASSEMBLY AND ITS GENETIC CONTROL.....	5R01 GM21975-02	51,403
CHRISTENSEN, DOUGLAS A.	BIOLOGICAL TEMPERATURE SENSOR USING OPTICAL ETALONS.....	1R01 GM23373-01	36,106
COHEN, ARTHUR M.	LYSOSOMES AND CANCER CHEMOTHERAPY-INDUCED CELL DEATH.....	5R01 CA16492-02	48,598
COLE, BARRY C.	MYOPLASMA-CELL INTERACTION AND INTERFERON INDUCTION.....	5R01 AI12103-03	46,926
COLE, BARRY C.	ROLE OF MYOPLASMAS IN ANIMAL AND HUMAN DISEASE.....	5R01 AM02255-18	52,959
CUELLAR, ORLANDO.	MEIOSIS IN PARTHENOGENETIC VERTEBRATES.....	5R01 GM19533-02	17,695
DAVERN, CEDRIC I.	BIOLOGICAL RESEARCH SUPPORT GRANT.....	5S07 RR05428-15	246,678
DE WITT, CHARLES W.	COMPARISON OF HISTOCOMPATIBILITY ANTIGENS.....	5R01 AI11956-03	37,325
DETHLEFSEN, LYLE A.	OPTIMIZATION OF RADIATION THERAPY.....	5R01 CA14165-04	100,848
DICKMAN, SHERMAN R.	STUDY OF MAMMALIAN METHIONINE-T-RNA SYNTHETASE.....	5R01 AM00803-22	43,326
EDMUNDSON, ALLEN B.	IMMUNOGLOBULINS IN MULTIPLE MYELOMA AND AMYLOIDOSIS.....	1R01 CA19616-01	314,613
EHRENFELD, ELVERA R.	VIRUS-HOST CELL INTERACTIONS.....	5R01 AI12387-02	59,324
EPSTEIN, WILLIAM W.	STUDIES ON FARNESYL PYROPHOSPHATE COUPLING.....	2R01 GM20196-04	50,438
EYRING, EDWARD M.	RELAXATION-RATE STUDY OF BIOCHEMICAL EQUILIBRIA.....	5R01 AM06231-14	26,505
EYRING, HENRY.	EFFECTS OF STRUCTURE ON BIOLOGICAL MECHANISMS.....	2R01 GM12862-12	49,544
EYZAGUIRRE, CARLOS E.	CHEMORECEPTOR ACTIVITY OF THE CAROTID BODY.....	5R01 NS05666-12	64,904
EYZAGUIRRE, CARLOS E.	NEUROPHYSIOLOGY PROGRAM PROJECT (PERIPHERAL AND CNS).....	5P01 NS07938-08	372,140
FANG, SEN-MAW.	GONADAL HORMONE RECEPTORS AND HUMAN PROSTATIC CANCER.....	2R01 CA13228-04	38,282
FANG, SEN-MAW.	GONADAL HORMONE RECEPTORS AND HUMAN PROSTATIC CANCER.....	5R01 CA13228-05	40,942
FANG, SEN-MAW.	PHARMACODYNAMICS OF CONTRACEPTIVE PROGESTINS.....	5R01 HD09420-02	38,303
FIDONE, SALVATORE J.	CHEMICAL TRANSMISSION IN SENSORY RECEPTORS.....	5R01 NS12636-02	32,039
FRANKLIN, MICHAEL R.	MODIFICATION OF POLYCYCLIC HYDROCARBON CARCINOGENESIS.....	5R01 CA15760-03	27,326
GANDHI, OM P.	NONTHERMAL EFFECTS OF MICROWAVES ON LIVING TISSUE.....	1R01 CA20419-01	233,590
GELFAND, DONNA M.	STUDY OF CHILDREN'S CHARITY BEHAVIOR.....	2R01 HD06914-04	38,196
GIDDINGS, J. CALVIN.	BIOLOGICAL SEPARATIONS: OPTIMIZATION AND NEW METHODS.....	5R01 GM10851-19	84,991
GLASGOW, LOWELL A.	INTERFERON AND HOST RESISTANCE TO VIRAL INFECTION.....	5R01 AI10217-06	63,988
GLASGOW, LOWELL A.	INTERFERON AND HOST RESISTANCE TO VIRAL INFECTIONS.....	2R01 AI10217-07	79,642
GOLDEN, CAROLE A.	MACROPHAGE FATTY ACIDS IN TUMOR CELL CYTOTOXICITY.....	1R01 CA19537-01	47,363
GRANT, DAVID M.	CARBON-13 MAGNETIC RESONANCE-METHODS AND THEORY.....	5R01 GM08521-16	79,111
GRANT, DAVID M.	REGIONAL RESEARCH FACILITY IN NMR.....	5P41 RR00574-05	252,242
GRANT, DAVID M.	REGIONAL RESEARCH FACILITY IN NMR.....	5P41 RR00574-06	195,142
GROW, RICHARD W.	REAL-TIME CONVERSION OF THERMAL TO VISIBLE PICTURES.....	5R01 GM19864-03	41,965
GURNEY, THEODORE, JR.	CONTROL OF PROTEIN SYNTHESIS IN CELL CULTURE.....	2R01 CA17504-02	63,640
GURNEY, THEODORE, JR.	CONTROL OF PROTEIN SYNTHESIS IN CELL CULTURE.....	5R01 CA17504-03	54,321
HIBBS, JOHN B, JR.	ROLE OF MACROPHAGE IN RESISTANCE TO CANCER.....	3R01 CA14045-03S1	6,735
HIBBS, JOHN B, JR.	TRYPAN BLUE TUMOR ENHANCEMENT: STUDY OF MECHANISMS.....	2R01 CA14045-04	49,431
HIBBS, JOHN B, JR.	HISTO RESISTANT TO CANCER.....	5R01 CA15811-03	53,403

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>UTAH—Continued</b>			
HILL, HARRY R.	HUMAN NEUTROPHIL REGULATION BY CYCLIC NUCLEOTIDES	5R01 AM18354-02	45,071
HUANG, WAI M.	STUDIES ON T4 DNA REPLICATION	5R01 GM21960-02	35,459
JARCHO, LEONARD W.	STROKE ACUTE CARE RESEARCH UNIT	5P50 NS11098-02	25,563
JOHNSON, CURTIS C.	CONTINUOUS OXYGEN CONSUMPTION BIOINSTRUMENTATION	5R01 GM22390-02	46,946
KIM, SUNG WAN	INITIAL EVENTS IN THROMBUS FORMATION ON SURFACES	5R01 HL17623-02	40,092
KIM, SUNG-WAN	INITIAL EVENTS IN THROMBUS FORMATION ON SURFACES	5R01 HL17623-03	41,569
KOLAKOSKY, DANIEL	REPLICATION OF PARAINFLUENZA VIRUSES	1R01 AI12921-01	24,533
KOLFF, WILLEM J.	CARDIAC ASSIST DEVICES AND ARTIFICIAL HEARTS	5P01 HL13738-05	677,318
KOLFF, WILLEM J.	CARDIAC ASSIST DEVICES AND ARTIFICIAL HEARTS	2P01 HL13738-06	426,379
KRALJOS, FANY A.	FUNCTIONAL SYMPATHETIC DEVELOPMENT IN NEONATAL HEARTS	5R01 HL17367-02	36,797
KRALJOS, FANY A.	FUNCTIONAL SYMPATHETIC DEVELOPMENT IN NEONATAL HEARTS	5R01 HL17367-03	44,651
KRIPKE, BERNARD R.	ORGANIZATION OF STRIATE CORTEX	5R01 EY01316-03	44,972
KUBY, STEPHEN A.	STUDIES ON ADENOSINE TRIPHOSPHATE TRANSPHOSPHORYLASES	5R01 AM07824-13	58,949
KUBY, STEPHEN A.	STUDIES ON ADENOSINE TRIPHOSPHATE TRANSPHOSPHORYLASES	5R01 AM07824-14	61,933
KUEHL, LEROY R.	INTRACELLULAR SITE OF SYNTHESIS OF SPECIFIC PROTEINS	2R01 GM13864-11	44,772
LAHEY, MARION E.	CHILDREN'S CANCER STUDY GROUP A	5R10 CA10198-09	46,764
LARK, CYNTHIA A.	THE ROLE OF METHYLATION IN DNA REPLICATION AND REPAIR	5R01 GM19703-03	42,458
LARK, KARL G.	CELLULAR REGULATION OF GROWTH AND DNA SYNTHESIS	5R01 AI10056-06	100,334
LARK, KARL G.	CELLULAR REGULATION OF GROWTH AND DNA SYNTHESIS	5R01 AI10056-07	108,682
LAWRENCE, PAUL J.	PENICILLIN: CHEMISTRY AND MODE OF ACTION	5R01 AI09898-06	35,434
LAZARUS, HARRISON M.	EFFECTS OF ORGAN STORAGE ON RENAL RNA METABOLISM	5R01 AM16184-05	82,643
LINKER, ALFRED	STRUCTURE AND FUNCTION OF MUCOPOLYSACCHARIDES	5R01 AM13412-16	33,362
LYON, JOSEPH L.	EPIDEMIOLOGY OF CERVICAL CANCER IN AREA OF LOW INCIDENCE	1R01 CA19871-01	72,627
LYON, JOSEPH L.	DIET AND COLON CANCER IN A LOW RISK POPULATION	1R01 CA21007-01	188,447
MC CLOSKEY, JAMES A.	MASS SPECTROMETRY OF NUCLEIC ACIDS AND THEIR ANALOGS	5R01 CA18024-02	422,445
MC CLOSKEY, JAMES A.	MASS SPECTROMETRY OF NUCLEIC ACIDS AND THEIR ANALOGS	5R01 GM21584-02	258,845
MICHL, JOSEF	DIRECTIONAL OPTICAL PROPERTIES OF BIOMOLECULES	5R01 GM19450-04	33,049
MICHL, JOSEF	MAGNETIC CIRCULAR DICHROISM OF ORGANIC MOLECULES	2R01 GM21153-03	21,646
MILLHOUSE, O EUGENE	STRUCTURAL SUBSTRATES OF HYPOTHALAMIC FUNCTIONS	5R01 NS09001-05	30,683
MOODY, FRANK G.	MECHANISMS OF GASTRIC ULCEROGENESIS	2R01 AM16233-05	76,941
MOODY, FRANK G.	MECHANISMS OF GASTRIC ULCEROGENESIS	5R01 AM16233-06	71,687
MOODY, FRANK G.	TRAUMA AND BURN RESEARCH CENTER	1P50 GM23095-01	345,918
MOSS, STANLEY D.	SENSITIVE FIELD-EFFECT TRANSDUCERS	1R01 GM22952-01	177,385
NELSON, DON H.	ENDOCRINE INFLUENCES IN DISEASE	5R01 AM11605-10	67,510
NICHOLS, WILLIAM K.	INSULIN REGULATION OF LEUKOCYTE METABOLISM	2R01 AM16330-04	34,037
O'NEILL, FRANK J.	CONTROL OF NUCLEAR EVENTS IN NORMAL & NEOPLASTIC CELLS	5R01 CA15141-03	21,839
OKUN, LAWRENCE M.	BIOCHEMISTRY AND PHYSIOLOGY OF CULTURED NEURONS	5R01 NS10615-04	37,593
OKUN, LAWRENCE M.	BIOCHEMISTRY AND PHYSIOLOGY OF CULTURED NEURONS	5R01 NS10615-05	39,252
OLIVERA, BALDOMERO M.	DISCONTINUOUS DNA SYNTHESIS IN VITRO	5R01 CA12096-06	33,060
PARKINSON, JOHN S.	GENETICS OF CHEMOTACTIC BEHAVIOR IN ESCHERICHIA COLI	2R01 GM19559-04	45,502
PARMA, DAVID H.	THE GENETICS OF STRUCTURALLY ALTERED PHAGE T4 GENOMES	5R01 AI09943-06	39,043
PARMA, DAVID H.	THE GENETICS OF STRUCTURALLY ALTERED PHAGE T4 GENOMES	5R01 AI09943-07	30,993
PARTLOW, LESTER M.	NEURONAL-GLIAL INTERACTIONS IN VITRO AND IN VIVO	1R01 NS12812-01	83,552
POULTER, C DALE	NUCLEIC ACIDS CONTAINING ANTITUMOR ANTIMETABOLITES	5R01 CA16824-02	37,939
POULTER, C DALE	MODEL STUDIES OF SQUALENE BIOSYNTHESIS	5R01 GM19557-03	11,735
POULTER, C DALE	SUBSTRATE ANALOGS FOR TERPENE CONDENSATION REACTIONS	3R01 GM21328-01S2	5,415
POULTER, C DALE	SUBSTRATE ANALOGS FOR TERPENE CONDENSATION REACTIONS	5R01 GM21328-02	64,377
PREHL, JAMES W.	STRUCTURAL BASIS OF THE FUNCTIONS OF HUMAN COMPLEMENT	7R01 AI13483-01	62,758
RECHSTEINER, MARTIN C.	MICROINJECTION OF MACROMOLECULES AND GENE EXPRESSION	1R01 GM23052-01	36,340
REED, DONALD J.	ROLE OF THE CHOROID PLEXUS IN REGULATING THE CSF	1R01 NS12869-01	44,883
RENZETTI, ATTILIO D, JR.	REGIONAL LUNG EXPANSION	5R01 HL12011-09	70,598
RENZETTI, ATTILIO D, JR.	ROLE OF INFECTION IN EMPHYSEMA	2R01 HL14703-10	67,195
RILLING, HANS C.	MECHANISMS AND ENZYMES OF TERPENE BIOSYNTHESIS	5R01 AM13140-16	61,300
ROTI ROTI, JOSEPH L.	RADIATION INDUCED ALTERATIONS OF CHROMOSOMAL PROTEINS	5R01 CA16465-02	50,426
SAMUELS, LEO T.	STERIOD HORMONE METABOLISM AND TUMORGENIC ACTION	5R01 CA10935-14	46,202
SAMUELS, LEO T.	STERIOD TRANSFER IN NORMAL AND MALIGNANT ENDOCRINE CELLS	2R01 CA13291-04	48,154
SAMUELS, LEO T.	STERIOD TRANSFER IN NORMAL AND MALIGNANT ENDOCRINE CELLS	5R01 CA13291-05	52,371
SANDBERG, LAWRENCE B.	BLOOD VESSEL FORMATION AND DISEASE	5R01 HL11963-08	78,592
SCHAFER, SUSAN A.	CELL POPULATIONS COMPETENT TO FORM AND RESORB BONE	5R23 DE03906-02	9,763
SMITH, CHARLES B.	THE INFECTIOUS ETIOLOGY OF RHEUMATOID ARTHRITIS	5R01 AM13463-07	67,737



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>UTAH—Continued</b>			
SORENSEN, JAMES A.....	IMPROVED TECHNIQUE FOR IODINE QUANTITATION.....	1R01 GM22983-01	27,234
SPIKES, JOHN D.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07092-11	115,229
STANG, PETER J.....	VINYL TRIFLUOROMETHANESULFONATE CHEMISTRY.....	5R01 CA16903-02	32,900
STEINMULLER, DAVID.....	GRAFT IMMUNOGENICITY AND ITS MODIFICATION.....	5R01 AI10824-05	80,289
STEWART, J ROBERT.....	EXPLORATORY STUDIES FOR CANCER NETWORK DEVELOPMENT.....	5P20 CA13750-04	65,984
SUMMERS, DONALD F.....	COMPOSITION, ASSEMBLY AND REPLICATION OF RNA VIRUSES.....	5R01 AI12316-02	139,199
SWANSON, JOHN L.....	STUDIES ON GONOCOCCUS INFECTION.....	2R01 AI11073-04	57,986
SWEAT, FLOYD W.....	BIOCHEMICAL STUDY OF LIVER RETICULOENDOTHELIAL CELLS.....	5R01 AM18208-02	29,105
SWINYARD, EWART A.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05738-05	53,888
TOWNSEND, LEROY B.....	BICYCLIC, PYRIMIDINE-LIKE AND PYRIMIDINE NUCLEOSIDES.....	5R01 CA11147-08	40,508
TOWNSEND, LEROY B.....	THE SYNTHESIS OF C-NUCLEOSIDES RELATED TO SHOWDOMYCIN.....	2R01 CA14252-04	29,218
TYLER, FRANK H.....	THE STUDY OF METABOLIC AND HEREDITARY DISORDERS.....	5P01 AM00002-30	279,518
TYLER, FRANK H.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00064-12	402,254
UCHIC, JOHN T.....	SYNTHETIC POLYNUCLEOTIDES IN CANCER CHEMOTHERAPY.....	5R01 CA16548-02	51,661
VELICK, SIDNEY F.....	THE PROPERTIES AND METABOLISM OF INDIVIDUAL PROTEINS.....	5R01 AM13115-13	43,039
VESTAL, MARVIN L.....	CROSSED-BEAM LC-MS FOR INVOLATILE BIOLOGICAL SAMPLES.....	1R01 GM22638-01	153,593
WALKER, JOHN L.....	INTRACELLULAR IONIC ACTIVITIES IN HEART MUSCLE.....	1R01 HL18053-01	38,867
WARNER, HOMER R.....	BIOMEDICAL ENGINEERING RESOURCE.....	5P41 RR00012-14	171,214
WARNER, HOMER R.....	BIOMEDICAL ENGINEERING RESOURCE.....	5P41 RR00012-15	180,550
WEST, CHARLES D.....	STERIODS AND SODIUM BALANCE IN ESSENTIAL HYPERTENSION.....	5R01 HL13762-06	69,052
WILEY, BILL B.....	STUDIES ON STAPHYLOCOCCAL EXFOLIATIVE TOXIN.....	2R01 AI10949-04A1	74,470
WILSON, DANA E.....	LIPOPROTEIN LIPASE AND LIPOPROTEIN REMOVAL MECHANISMS.....	5R01 HL13626-05	39,447
WOLSTENHOLME, DAVID R.....	STRUCTURE OF MITOCHONDRIAL AND KINETOPLAST DNA.....	5R01 GM18375-06	47,118
WOODBURY, J WALTER.....	ION TRANSPORT THRU MEMBRANES AND CELL ACID-BASE STATE.....	5R01 HL16348-03	37,584
ORGANIZATION TOTAL	142	13,105,676	
<b>WESTMINSTER COLLEGE ZIP CODE 84105</b>			
MILES, DANIEL W.....	MCD STUDY OF TAUTOMERISM OF NUCLEIC ACID BASES.....	5R01 GM20765-02	13,220
ORGANIZATION TOTAL	1	13,220	
STATE TOTAL	167	14,026,782	
<b>VERMONT</b>			
<b>BENNINGTON</b>			
<b>PUTNAM MEMORIAL HOSPITAL ZIP CODE 05201</b>			
ELLEM, KAY A.....	REPLICATION CONTROL: NORMAL VS. TRANSFORMED HUMAN CELLS.....	5R01 CA17749-02	81,982
TOOLAN, HELENE W.....	VIRUSES AND CANCER—ROLE OF LATENT VIRUSES IN RESISTANCE.....	5R01 CA07826-11	107,407
TOOLAN, HELENE W.....	VIRUSES AND CANCER—ROLE OF LATENT VIRUSES IN RESISTANCE.....	2R01 CA07826-12	113,851
TOOLAN, HELENE W.....	STUDY OF A VIRUS-INDUCED CRANIOFACIAL ANOMALY.....	1R01 DE04512-01	37,265
ORGANIZATION TOTAL	4	340,505	
<b>BURLINGTON</b>			
<b>UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE ZIP CODE 05401</b>			
ALBERTINI, RICHARD J.....	CLINICAL CANCER.....	1R25 CA19381-01	115,417
ALPERT, NORMAN R.....	ROLE OF MYOSIN IN COMPENSATED CARDIAC HYPERTROPHY.....	1R01 HL17592-01A1	88,443
BORAKER, DAVID K.....	OCTODON DEGUS: DEVELOPMENT OF A PEDIGREE COLONY.....	3P40 RR00771-03S2	7,950
BRAMMER, JIMMIE D.....	VITAMIN A AND PHOTORECEPTION IN INSECT VISUAL SYSTEMS.....	5R01 EY01150-03	35,569
BRESNICK, EDWARD.....	POLYCYCLIC HYDROCARBON METABOLISM AND CARCINOGENESIS.....	7R01 CA20711-01	63,818
BROWN, G STEPHEN.....	RADIATION THERAPY ONCOLOGY GROUP.....	1R10 CA17571-01A1	41,933
CLEMMONS, JACKSON J.....	EMBRYONIC RENAL INJURY: A FACTOR IN PULMONARY DISEASE.....	5R01 HD08864-02	80,842
CRAIGHEAD, JOHN E.....	ASSOCIATION OF HUMAN DIABETES WITH VIRUS INFECTION.....	2R01 AM17268-03	157,274
CUTRONEO, KENNETH R.....	ANTI-INFLAMMATORY STEROIDS AND COLLAGEN SYNTHESIS.....	7R01 AM19808-01	49,841
CUTRONEO, KENNETH R.....	PARTICULATE PROLYL HYDROXYLATION IN LUNG.....	7R01 HL20259-01	28,784
DANFORTH, ELLIOT, JR.....	EFFECTS OF OVER- AND UNDERNUTRITION ON THYROID HORMONE.....	5R01 AM18535-02	79,492
GIBBONS, WALTER R.....	VOLTAGE CONTROL OF CONTRACTION IN HEART.....	3R01 HL14614-04S1	12,614

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>VERMONT—Continued</b>			
GIBBONS, WALTER R.	VOLTAGE CONTROL OF CONTRACTION IN HEART	2R01 HL14614-05	37,109
GREEN, GARETH M.	CORRELATED STUDIES OF PULMONARY DISEASE	3P50 HL14212-05S2	322,925
GREEN, GARETH M.	VERMONT LUNG CENTER	5P60 HL17292-02	674,523
HAINES, CARLETON R.	COOPERATIVE BREAST CANCER GROUP STUDY	3R10 CA03764-17S1	14,950
HALPERN, WILLIAM.	VISCOELASTIC PROPERTIES OF MUSCLE	5R01 AM17163-03	34,503
HALPERN, WILLIAM.	MECHANICAL PROPERTIES OF HYPERTENSIVE RAT ARTERIOLES	5R01 HL17335-02	59,027
HALPERN, WILLIAM.	MECHANICAL PROPERTIES OF HYPERTENSIVE RAT ARTERIOLES	5R01 HL17335-03	64,485
HAMRELL, BURT B.	MECHANICAL CHARACTERISTICS OF THE HYPERTENSIVE HEART	5R01 HL16858-03	66,810
HART, BETH A.	THE INTERACTION OF CADMIUM WITH ALVEOLAR MACROPHAGE	1R01 ES01263-01	45,421
HART, BETH A.	BINDING OF CH3HG0, AN ENVIRONMENTAL HAZARD, WITH DNA	5R01 ES01263-02	37,617
JAFFE, JULIAN J.	ANTIMETABOLITE TARGETS IN SCHISTOSOMES AND FILARIAE	5R22 AI12060-02	88,026
JAKAB, GEORGE J.	BRONCHOPULMONARY RESISTANCE TO BACTERIAL INFECTION	5R01 HL18327-02	70,466
JOHNSON, ROBERT J.	KNEE LIGAMENTOUS INJURIES IN SPORTING ACTIVITIES	5R01 AM18499-02	96,821
JONES, JANICE L.	COUNTERSHOCK CURRENT INJURY TO MYOCARDIAL CELLS	3R01 HL15346-03S1	4,843
JONES, JANICE L.	ELECTRICALLY INDUCED CARDIAC EM-HISTOCHEMICAL CHANGES	5R01 HL16990-07	37,578
KAYE, MICHAEL D.	ESOPHAGEAL MOTILITY IN HEALTH AND CERTAIN DISEASES	3R01 AM18217-01S1	5,570
KELLEHER, PHILIP C.	ALPHA-1 FETOPROTEIN IN MAMMALIAN HEPATOMAS AND GROWTH	5R01 HD07136-03	28,148
KELLEHER, PHILIP C.	ALPHA-FETOPROTEIN IN FETUSES WITH NEURAL TUBE DEFECTS	5R01 HD08802-02	59,852
KRAWITT, EDWARD L.	INTESTINAL CALCIUM TRANSPORT	5R01 AM14686-06	46,120
KUEHNE, MARTIN E.	TOTAL SYNTHESIS OF INDOLE ALKALOIDS	5R01 CA12010-14	90,008
KUHN, ARTHUR S.	CONTROL FACTORS IN RENAL MITOCHONDRIAL NH3 PRODUCTION	5R01 AM18251-02	73,678
LAMBERT, LLOYD M. JR.	MAGNETOSONIC IMAGE CONVERTER	2R01 GM20226-03	42,125
LEPESCHKIN, EUGENE.	QUANTITATIVE STUDY OF T-WAVE MECHANISMS	5R01 HL01486-22	78,247
LOW, ROBERT B.	BIOLOGICAL FUNCTION OF MYOSIN LIGHT CHAINS	2R01 AM15594-04	39,154
LOW, ROBERT B.	BIOLOGICAL FUNCTION OF MYOSIN LIGHT CHAINS	5R01 AM15594-05	42,537
LUGINBUHL, WILLIAM H.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00109-13	446,216
LUGINBUHL, WILLIAM H.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05429-15	176,389
MACMILLAN, WILLIAM H.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07125-07	40,545
MAHN, LEON I.	DEVELOPMENT OF MAJOR LOW BIRTH WEIGHT RESEARCH PROGRAM	1P20 HD10712-01	38,961
MELVILLE, DONALD B.	BIOSYNTHESIS AND FUNCTION OF THIOLIMIDAZOLES	5R01 GM21232-03	33,924
MEYER, WILLIAM L.	INNERVATION EFFECTS ON MUSCLE NEUTRAL HYDROLASES	5R01 NS10105-04	45,256
MOEHRING, THOMAS J.	MAMMALIAN CELL RESPONSE TO DIPHTHERIA TOXIN	2R01 AI09100-07	73,221
MORELAND, MOREY S.	MORPHOLOGIC CHANGES AFTER FEMORAL ROTATION OSTEOTOMY	2R01 AM17608-03	39,005
NEWMCOMBE, DAVID S.	CYCLIC AMP IN CARTILAGE AND SYNOVIAL CELL FUNCTION	3R01 AM16151-03S1	1,703
NYBORG, WESLEY L.	BIOPHYSICAL BASIS FOR THRESHOLDS IN BIO-ULTRASOUND	5R01 GM08209-12	68,659
PARSONS, RODNEY L.	RECEPTOR DESENSITIZATION IN MUSCLE	5R01 NS07740-09	49,372
PARSONS, RODNEY L.	DESENSITIZATION OF SYMPATHETIC POSTGANGLIONIC NEURONS	5R01 NS12306-02	41,491
PHILLIPS, CHARLES A.	STUDIES OF A TRANSMISSIBLE AGENT IN CROHN'S DISEASE	5R01 AM17837-02	80,339
PHILLIPS, CHARLES A.	STUDIES OF A TRANSMISSIBLE AGENT IN CROHN'S DISEASE	5R01 AM17837-03	80,023
ROTHSTEIN, HOWARD	WOUND HEALING IN LENS EPITHELIUM	5R01 EY00281-12	60,315
RUSH, STANLEY	EFFECT OF RESISTIVITY VARIATIONS ON ELECTROCARDIOGRAM	2R01 HL09831-10	109,846
SAYER, JANE M.	TIMING OF PROTON TRANSFER IN CARBONYL ADDITIONS	1R01 GM22938-01	36,058
SCHAEFFER, WARREN I.	STUDIES OF IN VITRO CARCINOGENESIS WITH AFLATOXIN B1	5R01 CA12056-05	56,525
SIMS, ETHAN A.	METABOLIC INTERRELATIONSHIPS OF OBESITY AND DIABETES	2R01 AM10254-11	126,682
SMITH, CAROL J.	HEPATOMA ALPHA FETOPROTEIN: CHEMISTRY AND METABOLISM	5R01 CA15222-03	49,428
SOYKA, LESTER F.	ONTOGENETIC STUDIES OF DRUG METABOLISM	9R01 CA19647-04	56,385
SOYKA, LESTER F.	ONTOGENETIC STUDIES OF DRUG METABOLISM	5R01 HD08708-03	51,892
TANNEN, RICHARD L.	HYDROGEN ION REGULATION BY THE MAMMALIAN NEPHRON	5R01 AM14225-06	71,899
WEBB, GEORGE D.	EFFECT OF INSECTICIDES ON CATION TRANSPORT AND ATPASE	5R01 ES00885-03	44,506
WHITEHORN, DAVID	RESPONSE OF DORSAL COLUMN NUCLEI TO NATURAL INPUTS	5R01 NS09472-06	42,407
YATES, JEROME W.	EXPLORATORY STUDIES IN CANCER RESEARCH	5P20 CA16209-02	128,451
YATES, JEROME W.	CANCER CARE AND REHABILITATION IN A RURAL SETTING	5R18 CA17868-02	388,737
ORGANIZATION TOTAL	64	5,360,755	

**WHITE RIVER JUNCTION**

VETERANS ADMINISTRATION CENTER	ZIP CODE 05001		
SINCLAIR, PETER R.	LIVER CELL CULTURE FOR STUDY OF CARCINOGEN ACTIVATION	1R01 CA19832-01	68,768
ORGANIZATION TOTAL	1	68,768	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>VERMONT—Continued</b>			
STATE TOTAL	69	5,770,028	
<b>VIRGINIA</b>			
<b>ARLINGTON</b>			
<b>ARCTIC INSTITUTE OF NORTH AMERICA      ZIP CODE 22201</b>			
HOUSTON, CHARLES S.	HUMAN PHYSIOLOGY AT 17,500 FEET IN MOUNTAIN ENVIRONMENT	5R01 HL14102-05	71,150
ORGANIZATION TOTAL	1	71,150	
<b>BLACKSBURG</b>			
<b>VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY      ZIP CODE 24061</b>			
BUNCE, GEORGE E.	MAGNESIUM NUTRITURE AND PATHOLOGICAL CALCIFICATION	5R01 AM10446-08	31,616
BUNCE, GEORGE E.	CATARACT FROM A VEGETABLE PROTEIN BASED DIET	2R01 EY01060-06	46,066
CUMMINS, CECIL S.	TUMOR-INHIBITORY PROPERTY OF ANAEROBIC CORYNEFORMS	5R01 CA17790-02	48,317
DILLARD, JOHN G.	CHEMICAL IONIZATION-METAL-CONTAINING ANTICARCINOGENS	5R01 CA17119-02	29,170
GOOD, IRVING J.	PROBABILITY ESTIMATION	2R01 GM18770-05	59,278
GREGORY, EUGENE M.	ANTIOXIDANT ENZYME FUNCTION IN PULMONARY INFECTION	1R23 HL19609-01	38,383
KINGSTON, DAVID G.	PLANT TUMOR INHIBITORS	5R01 CA12831-05	36,280
MC NABB, ROGER A.	THE EXCRETION OF URIC ACID	2R01 AM14991-05	32,993
MOORE, WALTER E.	ANAEROBIC BACTERIOLOGICAL RESEARCH SUPPORT	5P01 GM14604-10	286,641
MOORE, WALTER E.	ANAEROBIC BACTERIOLOGICAL RESEARCH SUPPORT	2P01 GM14604-11	300,297
RITCHEY, SANFORD J.	RELATIONSHIP OF PROTEIN AND ZINC IN GROWING CHILDREN	5R01 HD08764-02	29,532
SCHMIDT, ROBERT R.	GENE-ENZYME CONTROL IN NORMAL AND CANCER CELLS	5R01 GM19871-04	40,495
SMIBERT, ROBERT M.	T. PALLIDUM CULTIVATION AND TREPONEME LIPID STUDIES	5R01 AI12726-02	51,184
TAYLOR, LARRY T.	MANGANESE-DIOXYGEN COMPLEXES	5R01 GM21844-02	18,392
TURNER, E CRAIG, JR	BIOSYSTEMATICS OF IMMATURE CERATOPOGONIDAE	5R01 AI11675-02	14,522
TURNER, E CRAIG, JR	BIOSYSTEMATICS OF IMMATURE CERATOPOGONIDAE	5R01 AI11675-03	14,409
WILKINS, TRACY D.	BACTERIOPHAGES OF BACTEROIDES FRAGILIS	5R01 AI2137-02	50,587
WILSON, COYT T.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07095-09	51,739
ORGANIZATION TOTAL	18	1,179,901	
<b>CHARLOTTESVILLE</b>			
<b>UNIVERSITY OF VIRGINIA      ZIP CODE 22903</b>			
ACKERS, GARY K.	MOLECULAR SIEVE CHROMATOGRAPHY OF INTERACTING PROTEIN	5R01 GM14493-10	35,848
ACKERS, GARY K.	MOLECULAR SIEVE CHROMATOGRAPHY OF INTERACTING PROTEIN	5R01 GM14493-11	40,176
AYERS, CARLOS R.	RENIN SECRETION IN RENAL VASCULAR HYPERTENSION	5R01 HL16044-03	39,560
BARENHOLZ, YECHESKEL	ROLE OF SPHINGOMYELIN IN BIOMEMBRANES AND BILAYERS	5R01 HL17576-02	44,316
BARNES, DENNIS W.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR07094-11	98,610
BAUERLE, RONALD H.	MECHANISM OF GENE EXPRESSION AND ITS REGULATION	5R01 GM17538-05	58,445
BEAMS, JESSE W.	MAGNETIC SUSPENSION BALANCES	5R01 GM19682-04	17,345
BEAMS, JESSE W.	MAGNETIC SUSPENSION BALANCES	2R01 GM19682-05	22,669
BENJAMIN, DAVID C.	CELLULAR AND STRUCTURAL BASIS OF IMMUNOLOGICAL TOLERANCE	5R01 AI10225-05	51,421
BERNE, ROBERT M.	BLOOD FLOW AND NUCLEOTIDE METABOLISM	5R01 HL10384-10	75,071
BERNE, ROBERT M.	BLOOD FLOW AND NUCLEOTIDE METABOLISM	5R01 HL10384-11	72,916
BIGGAR, JEANNE C.	DETERMINANTS. DIFFERENTIALS IN METROPOLITAN MOBILITY	5R01 HD06271-04	61,457
BIGGAR, JEANNE C.	MIGRATION TO SOUTHERN SMSA SUBAREAS	5R01 HD07750-02	64,663
BILTONEN, RODNEY L.	THERMODYNAMIC STUDIES OF TRANSFER RIBONUCLEIC ACIDS	5R01 GM20637-05	40,955
BLIZZARD, ROBERT M.	STUDIES OF PITUITARY HORMONES AND HYPOPITUITARISM	5R01 HD08926-03	78,313
BRADBEER, CLIVE.	STUDIES ON THE TRANSPORT OF VITAMIN B12	5R01 AM12653-08	41,386
BRILL, ARTHUR S.	ROLE OF WATER IN RESPIRATORY PROTEIN STRUCTURE	5R01 HL13989-05	53,868
BROOKER, GARY	METABOLIC AND HORMONAL CONTROL OF CARDIAC CONTRACTION	5R01 HL15985-04	48,967
BROWN, JAY C.	ROLE OF THE CELL SURFACE IN CANCER AND DEVELOPMENT	5R01 HD06390-05	42,790
BRYAN, ROBERT F.	X-RAY DETERMINATIONS OF STRUCTURE OF TUMOR INHIBITORS	5R01 CA11760-06	64,699
CARDELL, ROBERT R, JR	SUBCELLULAR EFFECTS OF METABOLIC HORMONES ON RAT LIVER	2R01 AM11854-09	80,083



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>VIRGINIA—Continued</b>			
CAREY, ROBERT M.	ROLE OF GI TRACT IN CONTROL OF EXCRETION OF SODIUM	5R01 AM17523-03	33,998
CURNOW, RANDALL T.	NEURAL CONTROL OF HEPATIC CARBOHYDRATE METABOLISM	5R01 AM18471-02	39,325
DAVIS, JOHN S. IV.	IMMUNOLOGICAL MECHANISMS IN RHEUMATIC DISEASES	5R01 AM11766-08	100,405
DECK, J. DAVID	TISSUE ORGANIZATION AND TURNOVER IN SEMILUNAR VALVES	2R01 HL16935-03	37,278
DRUCKER, WILLIAM R.	METABOLIC BASIS FOR HOMEOSTASIS IN SHOCK	5R01 GM21075-03	52,915
DRUCKER, WILLIAM R.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00847-03	410,983
DRUCKER, WILLIAM R.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05431-15	208,829
DULING, BRIAN R.	LOCAL REGULATION OF MICROVASCULAR FUNCTION	3R01 HL12792-06S1	15,770
DULING, BRIAN R.	LOCAL REGULATION OF MICROVASCULAR FUNCTION	2R01 HL12792-07	36,624
EBBESSON, SVEN O.	ORGANIZATION OF THE VERTEBRATE VISUAL SYSTEM	5R01 EY00154-06	86,851
EDWARDS, STEPHEN B.	PROJECTIONS OF THE MIDBRAIN RETICULAR FORMATION	5R01 NS11254-03	32,863
EDWARDS, STEPHEN B.	PROJECTIONS OF THE MIDBRAIN RETICULAR FORMATION	2R01 NS11254-04	51,859
EMERSON, CHARLES P. JR.	CONTROL OF MUSCLE PROTEIN SYNTHESIS DURING MYOGENESIS	2R01 HD07796-04	90,503
EMERSON, SUZANNE U.	RHADOVIRUS TRANSCRIPTION AND REPLICATION	5R01 AI11722-03	41,576
FAGER, ROGER S.	PREPARATION AND CHARACTERIZATION OF CONE PIGMENTS	5R01 EY01505-02	50,732
FLICKINGER, CHARLES J.	STRUCTURE AND FUNCTION OF MALE SEX ACCESSORY ORGANS	1R01 HD10073-01	63,905
GARRETT, REGINALD H.	THE ENZYMOLOGY OF NITRATE ASSIMILATION	5R01 GM18955-08	29,726
GARRETT, REGINALD H.	THE REGULATION OF NITRATE ASSIMILATION	1R01 GM22738-01	44,518
GILMAN, ALFRED G.	REGULATION OF CYCLIC NUCLEOTIDE METABOLISM	5R01 NS10193-05	76,918
GOLDSTEIN, GERALD	SOUTHWEST ONCOLOGY GROUP (ADULT)	5R10 CA13643-04	46,653
GRISHAM, CHARLES M.	MECHANISMS OF MEMBRANE TRANSPORT ENZYMES	1R01 AM19419-01	46,834
HAHN, JOHN F.	TACTILE PERIPHERAL NERVE RECORDING AND PSYCHOPHYSICS	5R01 NS09864-06	28,512
HAMNER, CHARLES E. JR.	OVIDUCT ROLE IN BLASTOCYST DEVELOPMENT	5R01 HD06573-05	45,439
HARBERT, GUY M. JR.	STUDIES OF PRIMATE UTERINE PHYSIOLOGY	5R01 HD02798-09	57,941
HAYNES, ROBERT C. JR.	HORMONAL CONTROL OF HEPATIC GLUCONEOGENESIS	5R01 AM14347-08	86,563
HEIMER, LENNART	BASAL FOREBRAIN ORGANIZATION	5R01 NS10972-04	72,350
HOWARDS, STUART S.	MICROPUNCTURE STUDIES OF TESTIS AND EPIDIDYMIS	5R01 HD09490-02	43,943
HUANG, CHING-HSIEN	PHOSPHOLIPID VESICLES—MODEL FOR BIOLOGICAL MEMBRANES	5R01 GM17452-05	39,008
HUANG, CHING-HSIEN	PROTEIN KINASE—PHYSICAL STRUCTURE & BIOLOGICAL ACTIVITY	1R01 GM22430-01	51,819
HUNT, DONALD F.	STUDY OF CARCINOGENIC AND ANTICARCINOGENIC COMPOUNDS	5R01 GM22039-02	37,042
JOHNS, THOMAS R. II.	MYASTHENIA GRAVIS: PHYSIOLOGICAL STUDIES	1R01 NS12905-01	96,741
JOHNSON, LEWIS B.	COMPOSITION CHANGES IN DENTAL ALLOY	5R01 DE03965-03	54,663
JONES, WARREN C. JR.	HIRUDIN ISOLATION AND UTILIZATION	1R01 HL19331-01	34,842
KADNER, ROBERT J.	GENE AMPLIFICATION AND MEMBRANE PROTEINS	5R01 GM19078-05	38,270
KHALIFAH, RAJA G.	HUMAN ERYTHROCYTE CARBONIC ANHYDRASE	5R01 HL17963-02	38,355
KOCHHAR, DEVENDRA M.	MECHANISMS UNDERLYING EXPERIMENTAL TERATOGENESIS	5R01 HD06550-05	74,792
KOMP, DIANE M.	SOUTHWEST ONCOLOGY GROUP (PEDIATRIC)	5R10 CA08223-10	86,940
KOMP, DIANE M.	CLINICAL CANCER EDUCATION	5R25 CA17990-02	94,417
KONIGSBERG, IRWIN R.	CONTROL OF PROLIFERATION DURING MUSCLE DEVELOPMENT	5R01 HD07083-04	94,041
KRETSINGER, ROBERT H.	STRUCTURE AND FUNCTION OF TROPONIN AND ITS HOMOLOGUES	5R01 AM16253-05	51,095
KUEHL, W. MICHAEL	CONTROL OF IMMUNOGLOBULIN SYNTHESIS IN MYELOMA CELLS	5R01 AI12525-02	42,365
KUPCHAN, S. MORRIS	CHEMISTRY OF TUMOR-INHIBITORY NATURAL PRODUCTS	5R01 CA11718-07	92,795
KUPCHAN, S. MORRIS	CHEMISTRY OF BIOLOGICALLY-ACTIVE NATURAL PRODUCTS	2R01 CA12059-07	65,869
KUTCHAI, HOWARD C.	SUGAR TRANSPORT IN DEVELOPING HEART CELLS	3R01 HL15716-03S1	8,702
KUTCHAI, HOWARD C.	LIMITING FACTORS IN OXYGEN UPTAKE IN THE LUNG	5R01 HL17967-02	23,159
LANGDON, ROBERT G.	BIOLOGICAL MEMBRANES IN PLASMA LIPOPROTEINS	2R01 GM19319-04A1	39,490
LANGMAN, JAN	CLOSURE OF THE CRANIOFACIAL SUTURES	1R01 DE04402-01	52,540
LANGMAN, JAN	ABNORMAL DEVELOPMENT OF THE NERVOUS SYSTEM	5R01 NS06188-11	91,514
LANGMAN, JAN	ABNORMAL DEVELOPMENT OF THE NERVOUS SYSTEM	5R01 NS06188-12	103,909
LARNER, JOSEPH	CHEMICAL MECHANISM OF ACTION OF INSULIN	5R01 AM14334-08	113,880
LARNER, JOSEPH	DIABETES—ENDOCRINOLOGY RESEARCH CENTER	5P30 AM17042-02	253,762
LAWLESS, KENNETH R.	THE DEVELOPMENT OF CARIOUS LESIONS IN ENAMEL	5R01 DE03959-03	50,325
LEE, JEN-SHIH	HOLOGRAPHY FOR DIAGNOSING PERIPHERAL VASCULAR DISEASE	5R01 HL17320-02	34,657
LITMAN, BURTON J.	ROLE OF MACROMOLECULES IN PHOTORECEPTOR MEMBRANES	5R01 EY00548-05	31,395
LOGAN, WILLIAM J.	NEUROTRANSMITTER INFLUENCE OF NEUROGLIA AND GLIOSIS	5R01 NS11793-03	42,363
LONGNECKER, DAVID E.	ANESTHETICS AND MICROVASCULAR RESPONSE TO HEMORRHAGE	5R01 HL17091-03	38,570
LOONEY, WILLIAM B.	MODIFICATION OF TUMOR GROWTH IN HEPATOMAS BY RADIATION	3R01 CA12758-03S1	31,286
LOONEY, WILLIAM B.	THE EFFECT OF RADIOTHERAPY ON EXPERIMENTAL SOLID TUMORS	1R01 CA20516-01	117,318
MACGREGOR, CAROLYN H.	CELL MEMBRANE PROTEASES	1R01 GM23010-01	46,691
MACLEOD, ROBERT M.	INFLUENCE OF HORMONES ON TISSUE METABOLISM	3R01 CA07535-12S1	23,862

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>VIRGINIA—Continued</b>			
MACLEOD, ROBERT M.	INFLUENCE OF HORMONES ON TISSUE METABOLISM	2R01 CA07535-13	80,340
MACLEOD, ROBERT M.	THYROID AND PITUITARY FUNCTION IN BREAST CANCER	5R01 CA16664-02	59,078
MANDELL, GERALD L.	MECHANISMS OF LEUKOCYTE BACTERICIDAL ACTIVITY	2R01 AI09504-07	45,220
MC CARTNEY, MICHAEL L.	ENGINEERING DEVELOPMENT OF AN ULTRASONIC VENTILOMETER	5R01 HL16555-02	50,953
MC LAUGHLIN, ROBERT E.	IMPROVEMENTS IN THE USE OF ACRYLIC CEMENT	5R01 AM15240-03	61,609
MELLON, DE FOREST, JR.	EVOLUTIONARY MODIFICATION OF A MOTOR CONTROL SYSTEM	5R01 NS04989-13	28,066
MURAD, FERID	FACTORS WHICH REGULATE THE ACTION OF CYCLIC AMP	5R01 AM15316-06	78,768
MURAD, FERID	CYCLIC NUCLEOTIDE METABOLISM IN LUNG TISSUES	1R01 HL18260-01	67,052
MURAD, FERID	CYCLIC NUCLEOTIDE METABOLISM IN LUNG TISSUES	5R01 HL18260-02	59,152
MURPHY, RICHARD A.	THE CONTRACTILE SYSTEM OF VASCULAR SMOOTH MUSCLE	5R01 HL14547-08	32,625
NOLAN, STANTON P.	FUNCTION AND STRUCTURE OF SEMILUNAR VALVES	5R01 HL17969-02	70,561
ODESSEY, RICHARD	CONTROL OF AMINO ACID METABOLISM IN SKELETAL MUSCLE	1R01 AM19120-01	32,456
OLIPHANT, EDWARD E.	MECHANISM OF INDUCTION OF THE SPERM ACROSOME REACTION	5R01 HD08573-02	42,644
PARSONS, J THOMAS	AVIAN RNA TUMOR VIRUS REPLICATION AND TRANSCRIPTION	5R01 CA16553-02	50,062
PEACH, MICHAEL J.	ANGIOTENSIN PEPTIDES AND REGULATION OF ALDOSTERONE	5R01 HL12706-07	49,796
POHL, STEPHEN L.	MECHANISMS OF POLYPEPTIDE HORMONE ACTION	7R01 AM19174-01	37,442
RALL, THEODORE W.	CYCLIC AMP IN ACTIONS OF NEUROHORMONES	5R01 NS12764-02	69,405
REBHUN, LIONEL I.	CYCLIC AMP AND CONTROL OF DIVISION IN MAMMALIAN CELLS	5R01 GM20523-03	38,106
REBHUN, LIONEL I.	CALCIUM SULFHYDRYL AND THE MITOTIC APPARATUS	1R01 GM22407-01	43,375
RINALDUCCI, EDWARD J.	PHOTOPIC MECHANISMS OF DARK ADAPTATION	5R01 EY00353-08	17,105
RITCHIE, WALLACE P, JR.	MUCOSAL RESISTANCE AS A FACTOR IN GASTRIC DISEASES	5R01 AM17591-03	21,931
RODEWALD, RICHARD D.	TRANSCELLULAR TRANSPORT OF IMMUNOGLOBULINS	5R01 AI11937-02	32,839
RODEWALD, RICHARD D.	ULTRASTRUCTURAL BASIS OF GLOMERULAR PERMEABILITY	1R01 HL19316-01	21,834
SCHNAITMAN, CARL A.	CELL SURFACE MEMBRANE PROTEINS	5R01 GM18006-05	39,074
SHERMAN, S MURRAY	EFFECTS OF VISUAL DEPRIVATION ON THE VISUAL SYSTEM	3R01 EY01565-01S1	6,880
SHERMAN, S MURRAY	EFFECTS OF VISUAL DEPRIVATION ON THE VISUAL SYSTEM	5R01 EY01565-02	69,666
SPERELAKIS, NICK	ELECTROPHYSIOLOGY OF HEART CELLS	1R01 HL18711-01	60,121
STEINBERG, WILLIAM	REGULATION OF BACTERIAL SPORE DEVELOPMENT	5R01 GM19236-05	39,903
STEWART, OSWALD	POST-LESION PLASTICITY OF NEURONAL CIRCUITRY	5R01 NS12333-02	39,802
SUNDBERG, RICHARD J.	BIOLOGICAL SIGNIFICANCE OF CARBON-LIGATED IMIDAZOLES	5R01 GM21572-02	27,401
TAYLOR, RONALD P.	QUANTITATIVE STUDIES OF BIOLOGICAL RECOGNITION	5R01 AI11735-03	19,718
THOMPSON, THOMAS E.	A STUDY OF PHOSPHOLIPID BILAYER MEMBRANES	5R01 GM14628-11	45,276
VILLAR-PALASI, CARLOS	CONTROL AND PHYSIOLOGICAL ACTIONS OF PROTEIN KINASES	5R01 AM14436-05	48,306
WAGNER, ROBERT R.	CELLULAR RESISTANCE TO VIRAL INFECTION	5R01 AI11112-10	131,611
WAGNER, ROBERT R.	CANCER CELL AND VIRUS MEMBRANES: STRUCTURE AND FUNCTION	1P01 CA18701-01	156,521
WATKINS, DAVID W, III	VISUAL DEPRIVATION: EFFECTS ON STRIATE NEURONS	5R23 EY01492-02	4,142
WAWNER, FRANKLIN E.	A STUDY OF REINFORCEMENTS IN DENTAL COMPOSITES	5R01 DE03925-02	60,352
WESTFALL, THOMAS C.	ROLE OF CHOLINERGIC AGENTS IN ADRENERGIC TRANSMISSION	5R01 NS10260-03	56,188
WINFIELD, JOHN B.	ANTILYMPHOCYTE ANTIBODIES IN LUPUS ERYTHEMATOSUS	1R01 AM19096-01	64,890
WINKLER, HERBERT H.	PERMEABILITY OF THE EPIDEMIC TYPHUS RICKETTSIA	5R01 AI10164-06	58,331
WINKLER, HERBERT H.	SUGAR AND SUGAR-PHOSPHATE TRANSPORT	2R01 AM13449-07	32,011
WRIGHT, THEODORE R.	ONTOGENY AND THE GENETIC CONTROL OF ENZYME ACTIVITY	5R01 GM19242-05	55,894
WRIGHT, THEODORE R.	THE GENETIC CONTROL OF MYOGENESIS IN DROSOPHILA	5R01 GM20607-03	41,362
YAMAZAKI, RUSSELL K.	HORMONAL REGULATION OF MITOCHONDRIAL FUNCTION	5R01 AM17849-02	32,354
ORGANIZATION TOTAL	125	7,343,710	

## HAMPTON

HAMPTON INSTITUTE      ZIP CODE 23668

BONNER, ROBERT D.	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES	5S06 RR08074-05	56,533
ORGANIZATION TOTAL	1	56,533	

## NORFOLK

EASTERN VIRGINIA MEDICAL AUTHORITY—EASTERN VIRGINIA MEDICAL SCHOOL      ZIP CODE 23507

CONRAD, MARGARET C.	COMPENSATORY MECHANISMS IN PERIPHERAL VESSELS	5R01 HL16766-03	18,742
MC COMBS, ROBERT M.	ROLE OF ONCORNAVIRUSES IN CARCINOMA OF THE PROSTATE	5R26 CA16540-03	54,154
PORTER, STANLEY F.	STUDIES OF IRON LOADING IN SICKLE CELL DISEASE	7R01 AM19466-01	29,805
ROSATO, FRANCIS E.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA18067-02	99,754

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>VIRGINIA—Continued</b>			
SOMERS, KENNETH D.....	GENETICS OF MURINE SARCOMA VIRUS.....	1R01 CA19714-01	43,686
WILLIAMS, PATRICIA B.....	CHARACTERIZATION OF COLLATERAL BLOOD VESSELS.....	1R01 HL19275-01	35,195
ORGANIZATION TOTAL	6 281,336		
<b>NORFOLK STATE COLLEGE ZIP CODE 23504</b>			
BEMPONG, MAXWELL A.....	INHIBITORS OF DNA AND RNA AND RENIN IN HUMAN TISSUES.....	5S06 RR08033-05	100,821
ORGANIZATION TOTAL	1 100,821		
<b>OLD DOMINION UNIVERSITY ZIP CODE 23508</b>			
SONENSHINE, DANIEL E.....	SEX PHEROMONES IN DISEASE TRANSMITTING TICKS.....	2R01 AI10986-04	19,844
ORGANIZATION TOTAL	1 19,844		
<b>PETERSBURG</b>			
<b>VIRGINIA STATE COLLEGE ZIP CODE 23803</b>			
NEWKIRK, ROBERT F.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08090-04	110,336
ORGANIZATION TOTAL	1 110,336		
<b>RICHMOND</b>			
<b>VIRGINIA COMMONWEALTH UNIVERSITY ZIP CODE 23284</b>			
BANKS, WILLIAM L, JR.....	EFFECTS OF HYDRAZINES ON RNA AND POLYAMINES.....	5R01 CA15615-03	29,061
BECKER, DONALD P.....	HEAD INJURY CLINICAL RESEARCH CENTER.....	1P50 NS12587-01A1	456,031
BIBER, THOMAS U.....	SOLUTE AND WATER TRANSPORT ACROSS MEMBRANES.....	7R01 AM19166-01	67,488
BLACKARD, WILLIAM G.....	PATHOGENESIS OF DIABETES MELLITUS.....	5R01 AM18903-02	48,477
BOGDANOVE, EMANUEL M.....	QUALITATIVE FACTORS IN ANTERIOR PITUITARY REGULATION.....	5R01 AM17545-03	28,536
BOGDANOVE, EMANUEL M.....	ENDOCRINE-INFLUENCING CENTERS IN THE HYPOTHALAMUS.....	5R01 HD06600-05	87,311
BOGDANOVE, EMANUEL M.....	ENDOCRINE-INFLUENCING CENTERS IN THE HYPOTHALAMUS.....	5R01 HD06600-06	96,639
BRADLEY, STERLING G.....	AMELIORATION OF ENHANCED TOXICITY OF ANTITUMOR DRUGS.....	5R01 CA13715-04	33,892
BRIGGS, F NORMAN.....	CA UPTAKE BY NORMAL AND FAILED CARDIAC (CAOMG)ATPASE.....	1R01 HL19485-01	36,777
BRYANT, CLAUDE P.....	ALTERATIONS IN GBM METABOLISM IN RENAL ALLOGRAFTS.....	5R01 AM18272-02	79,931
CARCHMAN, RICHARD A.....	MECHANISM OF ACTION OF CANNABINOIDS IN NEOPLASIA.....	5R01 CA17840-02	37,826
CLAMANN, H PETER.....	MOTOR POOL ORGANIZATION IN SYNERGISTIC INTERACTION.....	5R01 NS11677-02	47,650
COHEN, IRWIN K.....	COLLAGEN METABOLISM IN WOUND REPAIR AND KELOID.....	5R01 GM20298-03	49,855
COLLINS, JAMES M.....	DNA SYNTHESIS: STRUCTURAL CHANGES DURING THE CELL CYCLE.....	5R01 CA17177-02	40,626
CORLEY, KARL C, JR.....	BEHAVIORAL STRESS AND CARDIOMYOPATHY.....	5R01 HL13454-06	40,786
DE PAOLA, DOMINICK P.....	THE ROLE OF GLYCOPROTEINS IN PALATAL FUSION.....	5R23 DE04148-02	12,164
DE VRIES, GEORGE H.....	CHEMISTRY AND METABOLISM OF CNS MYELIN-FREE AXONS.....	2R01 NS10821-04	49,090
DIEGELMANN, ROBERT F.....	COLLAGEN METABOLISM IN BREAST CANCER.....	5R01 CA17297-02	36,786
ELZAY, RICHARD P.....	CLINICAL CANCER EDUCATION PROGRAM—DENTAL.....	1R25 CA19294-01	25,934
FABIATO, ALEXANDRE.....	CONTRACTILE ACTIVATION OF SKINNED CARDIAC CELLS.....	1R01 HL19138-01	78,869
FALLON, HAROLD J.....	HEPATIC LIPID METABOLISM, CONTROL AND ETHANOL EFFECTS.....	5R01 AM18067-02	48,762
FALLON, HAROLD J.....	REGULATION OF ADIPOSE LIPID METABOLISM.....	5R01 AM18068-02	51,981
FALLON, HAROLD J.....	LIVER METABOLISM PROGRAM PROJECT.....	1P01 AM18976-01	431,509
FORD, GEORGE D.....	REGULATION OF VASCULAR SMOOTH MUSCLE CONTRACTILITY.....	5R01 HL15829-03	26,096
FREER, RICHARD J.....	CIRCULATORY SYSTEM EFFECTS OF ANGIOTENSIN ANALOGS.....	1R01 HL19653-01	34,637
FRIEDMAN, MARVIN A.....	EFFECTS OF PIPERONYL BUTOXIDE ON CHEMICAL CARCINOGENESIS.....	5R01 ES00701-03	58,963
GANDER, GEORGE W.....	STUDIES ON THE PATHOGENESIS OF FEVER.....	5R01 AI10601-03	44,819
GEERAETS, RAGNIT.....	TERATOGENIC INDUCTION OF COLOBOMA.....	5R23 EY01360-02	10,242
GOLDBERG, STEPHEN J.....	INPUTS TO ABDUCENS NEURONS: AN INTRACELLULAR STUDY.....	5R23 EY01442-02	9,671
GOLDMAN, I DAVID.....	CELLULAR PHARMACOKINETICS OF ANTICANCER AGENTS.....	2R01 CA16906-03	110,867
HARD, RICHARD C, JR.....	EARLY IMMUNODEFICIENCY AND LATE ONCOGENESIS.....	5R01 CA16112-03	47,666
HUF, ERNST G.....	METABOLISM AND ACTIVE ION TRANSPORT IN SKIN.....	5R01 GM03545-22	22,284
HYLEMON, PHILLIP B.....	BILE SALT CATABOLISM REGULATION BY INTESTINAL BACTERIA.....	5R01 CA17747-02	20,879
JAMES, G WATSON, III.....	ACUTE LEUKEMIA GROUP B CHEMOTHERAPY PROGRAMS.....	5R10 CA03735-19	75,556
JESSEE, ROBERT W.....	CANCER ANSWERS AND RIGHTS INFORMATION SYSTEM.....	5R18 CA17797-02	40,432
KAPLAN, ALAN M.....	THE CELLULAR BASIS OF ACQUIRED IMMUNOLOGIC TOLERANCE.....	5R01 AI11561-02	41,940
KENNEDY, JAMES E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05724-05	33,117
KONTOS, HERMES A.....	INTRACELLULAR OXYGEN TENSION IN MUSCLE.....	1R01 HL18453-01	60,117



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>VIRGINIA—Continued</b>			
KONTOS, HERMES A.....	INTRACELLULAR OXYGEN TENSION IN MUSCLE.....	5R01 HL18453-02	63,580
KOONTZ, WARREN W, JR.....	EVALUATION AND MANAGEMENT OF BLADDER CARCINOMA.....	5R26 CA15492-03	26,790
LAWRENCE, WALTER, JR.....	CANCER CENTER CORE SUPPORT.....	3P30 CA16059-01A1S1	41,470
LAWRENCE, WALTER, JR.....	BIOCHEMICAL CORRELATES WITH HUMAN BREAST CANCER.....	5R01 CA17116-02	55,403
LEE, HYUNG M.....	CLINICAL STUDIES OF RABBIT ANTITHYMOCYTE GLOBULIN.....	5R01 AI12822-02	86,797
LIBERTI, JOSEPH P.....	PURIFICATION AND BIOCHEMISTRY OF SULFATION FACTOR.....	5R01 AM16457-03	31,429
LORIA, ROGER M.....	VASCULAR INJURY AND ATHEROSCLEROSIS.....	5R01 HL18152-02	62,048
MACRINA, FRANCIS L.....	STUDIES ON THE GENETICS OF ORAL MICROFLORA.....	5R23 DE04224-02	13,814
MAKHLIOUF, GABRIEL M.....	HORMONAL INTEGRATION OF EXOCRINE AND ENDOCRINE ORGANS.....	5R01 AM15564-05	82,994
MC GUIRE, HUNTER H, JR.....	GENERAL CLINICAL RESEARCH CENTER.....	5M01 RR00065-14	550,997
MONCURE, CHARLES W.....	INVESTIGATION OF SPECIFIC ANTIGENS IN PROSTATIC CANCER.....	5R26 CA15499-03	45,869
MOORE, EDWARD W.....	STUDIES WITH ION-EXCHANGE CALCIUM ELECTRODES.....	3R01 AM15393-05S1	19,178
MOORE, EDWARD W.....	NH3 ELECTRODE STUDIES OF AMMONIA METABOLISM.....	1R01 AM18887-01	67,540
MORAHAN, PAGE S.....	IMMUNOADJUVANTS FOR HERPES SIMPLEX.....	5R01 CA16193-03	38,454
MULLINAX, PERRY F.....	IMMUNOGLOBULINS, DIABETES AND MICROVASCULAR DISEASE.....	5R01 AM18901-02	79,002
MULLINAX, PERRY F.....	IMMUNOGLOBULINS AS GLYCOPROTEINS.....	1R01 CA20174-01A2	63,603
MUNSON, ALBERT E.....	CANNABINOIDS AS ANTINEOPLASTIC DRUGS.....	5R01 CA17551-02	39,989
MURRAY, BYRON K.....	TRANSFORMATION BY DEFECTIVE HERPES SIMPLEX VIRUSES.....	1R01 CA19238-01	49,466
NANCE, WALTER E.....	MEDICAL COLLEGE OF VIRGINIA HUMAN TWIN PANEL.....	1P01 HD10291-01	300,147
PATTERSON, JOHN L, JR.....	RESPIRATORY INSUFFICIENCY PATHOPHYSIOLOGY & MANAGEMENT.....	3P50 HL14251-05S2	161,627
PITTMAN, ROLAND N.....	VASODILATION AND MICROVASCULAR OXYGEN DELIVERY.....	5R01 HL18292-02	37,030
PRICE, STEVEN.....	A MOLECULAR GENETIC APPROACH TO OLFACTION.....	1R01 DE04271-01	38,849
RANNEY, RICHARD R.....	GINGIVAL ANTIBODY & PLAQUE ANTIGENS IN PERIODONTITIS.....	5R01 DE03671-04	48,319
RANNEY, RICHARD R.....	GINGIVAL ANTIBODY & PLAQUE ANTIGENS IN PERIODONTITIS.....	5R01 DE03671-05	45,271
RANNEY, RICHARD R.....	SEVERE PERIODONTITIS: IMMUNOLOGIC STUDIES.....	1R01 DE04397-01	172,515
REGELSON, WILLIAM.....	RES FUNCTION, TUMOR INDUCTION, AND GROWTH.....	3R01 CA10537-06S1	18,858
REGELSON, WILLIAM.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	3R10 CA10572-07S1	449
REGELSON, WILLIAM.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	5R10 CA10572-08	39,914
REGELSON, WILLIAM.....	COMPARATIVE USE OF SUPPORTIVE DRUGS IN CANCER PATIENTS.....	1R18 CA19378-01	89,224
RIDGWAY, ELLIS B.....	CALCIUM MOVEMENTS DURING E-C COUPLING IN MUSCLE.....	2R01 NS10919-04	37,117
ROSENBLUM, WILLIAM I.....	CEREBRAL MICROCIRCULATION.....	5R01 HL12775-07	58,495
ROSENBLUM, WILLIAM I.....	FLUOROCARBON EMULSIONS AS ARTIFICIAL BLOOD.....	5R01 HL16643-02	18,437
ROSENBLUM, WILLIAM I.....	BRAIN MICROCIRCULATION OBSERVED IN VIVO AFTER TRAUMA.....	1R01 HL18932-01	33,801
ROTHBERG, SIMON.....	BIOCHEMICAL REGULATION IN EPIDERMIS.....	5R01 AM15285-05	48,478
RUBIN, RONALD P.....	THE ACTION OF CALCIUM ON SECRETION.....	5R01 AM18066-03	25,220
RUDDY, SHAUN.....	CELLULAR INTERACTIONS WITH COMPLEMENT AND PROPERDIN.....	1R01 AI13049-01	71,486
SABET, SOHAIR F.....	COLICINS AND MEMBRANE FUNCTIONS.....	5R01 AI12761-02	21,891
SCOTT, ROBERT B.....	DIFFERENTIATION AND FUNCTION OF HEMATOPOIETIC CELLS.....	5R01 CA08482-11	68,788
SHELTON, KEITH R.....	NONHISTONE PROTEINS OF REACTIVATED ERYTHROCYTE NUCLEI.....	5R01 CA15923-03	32,312
SOULSBY, MICHAEL E.....	VASCULAR MUSCLE CONTRACTILITY IN CIRCULATORY SHOCK.....	1R01 HL19310-01	34,245
STEINFELD, JESSE.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05430-15	181,955
STILL, WILLIAM J.....	PATHOGENESIS OF ATHEROSCLEROSIS.....	5R01 HL09622-12	33,583
SWELL, LEON.....	MECHANISM OF GALLSTONE FORMATION IN MAN.....	5R01 AM14668-06	57,501
TEW, JOHN G.....	REGULATION OF THE IMMUNE RESPONSE BY PERSISTING ANTIGEN.....	2R01 AI11101-04	34,487
THOMAS, JUDITH M.....	ACTION OF RABBIT ANTIHUMAN THYMOCYTE GLOBULIN.....	5R01 AI12586-02	66,245
VAN TUYLE, GLENN C.....	MEMBRANE-BINDING AND FOLDING OF MITOCHONDRIAL DNA.....	1R01 GM22597-01	30,904
WALLER, MARION V.....	SERUM AGGLUTINATORS OF ENZYME ALTERED GAMMA GLOBULINS.....	5R01 AM04549-14	35,340
WAMPLER, GALEN I.....	FETAL ISOENZYMES AS BIOLOGIC MARKERS.....	5R01 CA16073-03	45,244
WEAVER, WARREN E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05697-07	32,607
WEGUCKI, WILLIAM B.....	MYOCARDIAL ORGANELLE LIPID STRUCTURE AND FUNCTION.....	7R01 HL19148-01	170,255
WEGUCKI, WILLIAM B.....	MYOCARDIAL ORGANELLE LIPID STRUCTURE AND FUNCTION.....	5R01 HL19148-02	193,531
WINDRIDGE, GRAHAM C.....	POLYMYXIN ANALOGS.....	5R01 AI11629-02	28,198
WINDRIDGE, GRAHAM C.....	POLYMYXIN ANALOGS.....	5R01 AI11629-03	37,079
YOUNG, HAROLD F.....	HOT-NEOPLASIA INTERACTIONS OF GLIOMAS.....	5R01 CA16096-02	32,445
ORGANIZATION TOTAL	92 6,353,537		
<b>VIRGINIA UNION UNIVERSITY ZIP CODE 23220</b>			
BRADLEY, WALTER O.....	SUPPORT FOR PESTICIDE RESEARCH.....	5S06 RR08007-05	50,626
ORGANIZATION TOTAL	1 50,626		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>VIRGINIA—Continued</b>			
<b>WILLIAMSBURG</b>			
<b>COLLEGE OF WILLIAM AND MARY</b>	<b>ZIP CODE 23185</b>		
BRADLEY, ERIC L.....	ENDOCRINE BASES OF REPRODUCTIVE INHIBITION IN DEER MICE.....	5R01 HD08906-02	34,103
ORGANIZATION TOTAL	1 34,103		
STATE TOTAL	248 15,601,897		
<b>WASHINGTON</b>			
<b>BELLINGHAM</b>			
<b>WESTERN WASHINGTON STATE COLLEGE</b>	<b>ZIP CODE 98225</b>		
CVETKOVICH, GEORGE T.....	ADOLESCENT DEVELOPMENT AND CONTRACEPTIVE USE.....	1R01 HD09813-01	63,948
KLEINKNECHT, RONALD A.....	THE ASSESSMENT AND TREATMENT OF FEAR OF DENTISTRY.....	5R01 DE04014-02	82,990
ORGANIZATION TOTAL	2 146,938		
<b>ISSAQUAH</b>			
<b>ISSAQUAH GROUP FOR HEALTH AND ENVIRONMENTAL RESEARCH</b>	<b>ZIP CODE 98027</b>		
SHEARER, RUTH W.....	MOLECULAR GENETICS OF TUMORS.....	1R01 CA20781-01	67,745
STUART, KENNETH D.....	MITOCHONDRIAL DNA OF NORMAL AND MUTANT TRYPANOSOMES.....	1R01 AI14102-01	33,758
ORGANIZATION TOTAL	2 101,503		
<b>PULLMAN</b>			
<b>WASHINGTON STATE UNIVERSITY</b>	<b>ZIP CODE 99163</b>		
BURGER, DIETER.....	ISOLATION OF VIRUS-ANTIBODY COMPLEXES.....	2R01 AI11714-03	30,173
BUSTAD, LEO K.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05465-14	47,783
CARLSON, JAMES R.....	TRYPTOPHAN-INDUCED PULMONARY EMPHYSEMA.....	5R01 HL13645-09	64,540
CRAWFORD, TIMOTHY B.....	STUDIES OF VIRAL PERSISTENCE IN EQUINE INFECTIOUS ANEMIA.....	5R01 AI07471-10	73,922
CRAWFORD, TIMOTHY B.....	VIRAL ARTHRITIS-LEUKOENCEPHALITIS OF GOATS.....	1R01 AM18801-01	66,760
DAVIS, ROGER T.....	AGING IN MONKEYS.....	5R01 AG00440-05	17,820
DAVIS, WILLIAM C.....	MODEL OF BLOCKING CELL-MEDIATED TUMOR IMMUNITY.....	5R01 CA17075-02	36,770
GOLLNICK, PHILIP D.....	SUBCELLULAR RESPONSE OF HEART TO FUNCTIONAL OVERLOAD.....	1R01 HL18527-01	121,136
HADWIGER, LEE A.....	DRUGS AND GENE ACTIVATION.....	5R01 GM18483-05	33,795
HEGREBERG, GERALD A.....	AGING AND COLLAGEN EHLERS-DANLOS SYNDROME.....	5R01 AG00030-02	45,437
HOSICK, HOWARD L.....	CULTURE OF PRENEOPLASTIC MAMMARY CELLS OF THE MOUSE.....	5R01 CA16392-03	33,136
KIRSCHNER, LEONARD B.....	MECHANISM OF ACTIVE ION MOVEMENT ACROSS MEMBRANES.....	5R01 GM04254-21	45,328
KOLATTUKUDY, P E.....	BIOCHEMISTRY OF NATURAL PRODUCTS.....	5R01 GM18278-06	58,939
LEGG, JOHN I.....	SUBSTITUTION-INERT METAL IONS AS BIOLOGICAL PROBES.....	1R01 GM23081-01	55,104
LOEWUS, FRANK A.....	INOSITOL METABOLISM.....	7R01 GM22427-01	90,262
LOEWUS, FRANK A.....	INOSITOL METABOLISM.....	5R01 GM22427-02	108,081
MAGNUSON, JAMES A.....	METAL ION ACTIVATION OF CONCAVALIN A.....	2R01 CA14496-04	42,959
MAGNUSON, JAMES A.....	NA O NMR: A PROBE FOR MALIGNANCY.....	1R01 CA18452-01	22,269
MC FADDEN, BRUCE A.....	BIOCHEMISTRY OF MEMBRANE AND CATALYTIC PROTEINS.....	2R01 GM19972-07	104,274
MC GUIRE, TRAVIS C.....	INVESTIGATIONS OF COMBINED IMMUNODEFICIENCY IN FOALS.....	5R01 HD08886-02	59,354
MC IVOR, KEITH L.....	ISOLATION & PURIFICATION: SPECIFIC MACROPHAGE CYTOTOXIN.....	5R01 CA17683-02	29,477
NYMAN, C J.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07097-11	49,509
PADGETT, GEORGE A.....	ANIMAL MODELS FOR COMPARATIVE MEDICAL RESEARCH.....	5P40 RR00515-08	97,056
PERRYMAN, LANCE E.....	INVESTIGATIONS OF COMBINED IMMUNODEFICIENCY IN FOALS.....	5R01 HD08886-03	63,765
RINGO, JOHN A.....	OVULATION, OVIDUCT MOTILITY AND HORMONAL RELATIONSHIPS.....	5R01 HD09257-02	42,680
STEVENS, CARL M, II.....	MECHANISMS OF CHAIN ELONGATION IN ALPHA-KETO ACIDS.....	5R01 GM21996-02	22,741
WAY, JAMES L.....	ANTAGONISM OF CYANIDE INTOXICATION WITH OXYGEN.....	5R01 GM21738-03	29,850
WILSON, ROBERT B.....	DIABETES AND ATHEROSCLEROSIS.....	1R01 HL20441-01	39,351
YOUNG, FRANCIS A.....	GROWTH ENVIRONMENTAL REFRACTIVE CHANGES.....	5R01 EY00284-11	75,539
YOUNT, RALPH G.....	INTERACTION OF ATP ANALOGS WITH MYOSIN.....	2R01 AM05195-16	61,784

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WASHINGTON—Continued</b>			
ORGANIZATION TOTAL	30	1,669,594	
<b>RICHLAND</b>			
<b>BATTELLE MEMORIAL INSTITUTE—PACIFIC NORTHWEST LABORATORIES</b>		<b>ZIP CODE 99352</b>	
FREE, MICHAEL J.	STUDIES ON TESTICULAR AND EPIDIDYMAL FUNCTION IN VIVO	5R01 HD08868-02	58,444
HAMPTON, JAMES C.	CAPILLARY FINE STRUCTURE AND PERMEABILITY	5R01 HL13429-06	36,294
SIKOV, MELVIN R.	EFFECT OF EXPOSURE OF THE PRENATAL RAT TO ULTRASOUND	5R01 GM20661-03	59,954
SULLIVAN, MAURICE F.	EFFECTS OF INTRACAVITARY IRRADIATION WITH CF-252	5R01 CA13127-05	85,906
WESTERMAN, RICHARD E.	POROUS METAL DENTAL ANCHORS IN LONG-TERM FUNCTION	5R01 DE03938-02	71,585
WHEELER, KENNETH R.	MECHANICAL COMPATIBILITY OF POROUS METAL-BONE SYSTEMS	5R01 GM19927-02	83,193
ORGANIZATION TOTAL	6	395,376	
<b>SEATTLE</b>			
<b>BATTELLE MEMORIAL INSTITUTE</b>		<b>ZIP CODE 98105</b>	
DAVIDSON, ANDREW R.	PREDICTION OF COUPLE DECISION MAKING AND BEHAVIOR	1R01 HD10683-01	52,850
MARINI, MARGARET M.	SEX DIFFERENCES IN OUTCOMES OF ADOLESCENT EXPERIENCE	1R01 HD09637-01	62,502
ORGANIZATION TOTAL	2	115,352	
<b>CHILDREN'S ORTHOPEDIC HOSPITAL AND MEDICAL CENTER</b>		<b>ZIP CODE 98105</b>	
BLEYER, WERNER A.	CLINICAL PHARMACOLOGY OF INTRATHECAL METHOTREXATE	5R01 CA16525-02	24,935
CHARD, RONALD L. JR.	LEUKEMIA CENTER (PLATELET) PROGRAM	5R01 CA12001-11	38,237
HARTMANN, JOHN R.	CHILDREN'S CANCER STUDY GROUP A	5R10 CA10382-10	147,723
HARTMANN, JOHN R.	CLINICAL CANCER EDUCATION PROGRAM (PEDIATRIC)	5R25 CA18039-02	84,839
ORGANIZATION TOTAL	4	295,734	
<b>FRED HUTCHINSON CANCER RESEARCH CENTER</b>		<b>ZIP CODE 98104</b>	
BERNSTEIN, IRWIN D.	MECHANISMS OF BCG-MEDIATED SUPPRESSION OF TUMOR GROWTH	7R01 CA19170-01	60,728
HAKOMORI, SEN-ITIROH.	RELATION OF BLOOD GROUP AND HUMAN TUMOR ANTIGENS	7R01 CA19224-01	44,916
HAKOMORI, SEN-ITIROH.	IMMUNOSPECIFIC GLYCOLIPIDS OF NORMAL AND CANCER CELLS	7R01 CA20026-01	34,593
HAKOMORI, SEN-ITIROH.	ANTICARBOHYDRATE ANTIBODY IN CELL BIOLOGY	1R01 GM23100-01	45,598
HELLSTROM, INGEGERD E.	TRANSPLANTATION ANTIGENICITY OF VIRUS INDUCED TUMORS	7R01 CA19149-01	98,351
HELLSTROM, INGEGERD E.	TRANSPLANTATION ANTIGENICITY OF VIRUS INDUCED TUMORS	5R01 CA19149-02	102,003
HELLSTROM, KARL E.	LYMPHOCYTE ALLOGENEIC INHIBITION AND TUMOR IMMUNITY	7R01 CA19148-01	140,213
HELLSTROM, KARL E.	LYMPHOCYTE ALLOGENEIC INHIBITION AND TUMOR IMMUNITY	5R01 CA19148-02	145,761
HUTCHINSON, WILLIAM B.	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	3P01 CA15704-02S2	15,000
HUTCHINSON, WILLIAM B.	CANCER CENTER SUPPORT GRANT (COMPREHENSIVE)	5P30 CA15704-03	1,309,173
HUTCHINSON, WILLIAM B.	CANCER CONTROL DEVELOPMENT GRANT	5R18 CA16404-02	195,730
HUTCHINSON, WILLIAM B.	CANCER CENTER SCIENTIFIC SYMPOSIUM	1R13 CA18789-01	5,662
HUTCHINSON, WILLIAM B.	EXPLORATORY STUDIES IN CANCER RESEARCH	1P20 CA18852-01	39,991
HUTCHINSON, WILLIAM B.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05761-02	63,074
LINAL, MAXINE L.	VIRAL CODED FUNCTIONS IN ROUS SARCOMA	1R01 CA18282-01	62,214
NEIMAN, PAUL E.	MOLECULAR MECHANISMS IN NEOPLASIA	1R01 CA20068-01	96,622
NOWINSKI, ROBERT C.	IMMUNOLOGICAL ASPECTS OF MOUSE LEUKEMIAS	1R01 CA18074-01	109,090
NOWINSKI, ROBERT C.	IMMUNOLOGICAL ASPECTS OF MOUSE LEUKEMIAS	5R01 CA18074-02	127,080
POLLACK, SYLVIA B.	SPECIFIC ANTITUMOR ACTIVITY BY 'ARMED' LYMPHOID CELLS	2R01 CA18647-02	43,639
SCRIBNER, JOHN D.	EARLY AND CRITICAL EVENTS IN CHEMICAL CARCINOGENESIS	5R01 CA18632-02	44,663
STORB, RAINER F.	TREATMENT OF HEMATOLOGIC MALIGNANCIES BY MARROW GRAFTING	1P01 CA18221-01	333,982
STORB, RAINER F.	MARROW GRAFTING IN TREATMENT OF HEMATOLOGIC MALIGNANCIES	5P01 CA18221-02	315,407
THOMAS, DAVID B.	SECOND CONFERENCE OF EPI-STAT STAFF OF CANCER CENTERS	1R13 CA20375-01	33,853
THOMAS, E. DONNALL	PROTECTIVE ENVIRONMENT IN INTENSIVE CANCER THERAPY	5R01 CA17117-02	557,585
THOMAS, E. DONNALL	ADULT LEUKEMIA RESEARCH CENTER	1P01 CA18029-01	1,934,078
THOMAS, E. DONNALL	SEPARATION OF BLOOD BY CONTINUOUS CENTRIFUGES	5R01 CA18579-02	101,950
WEIDEN, PAUL L.	IMMUNOTHERAPY STUDIES OF SPONTANEOUS MALIGNANCY	1R01 CA18105-01	78,431
WEISS, NOEL S.	EPIDEMIOLOGY OF GYNECOLOGIC CANCER	1R01 CA18764-01	67,748
WRIGHT, PETER W.	MECHANISMS OF ALLOGRAFT TOLERANCE	5R01 CA17481-02	61,105
ORGANIZATION TOTAL	29	6,268,240	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WASHINGTON—Continued</b>			
<b>INSTITUTE OF APPLIED PHYSIOLOGY AND MEDICINE      ZIP CODE 98122</b>			
REID, JOHN M.....	CEREBROVASCULAR SYSTEM ASSESSMENT BY DOPPLER ULTRASOUND.....	3R01 HL15844-02S1	12,446
SPENCER, MERRILL P.....	ULTRASONIC DETECTION OF THE ATHEROSCLEROTIC PLAQUE.....	1R01 HL19341-01	73,580
ORGANIZATION TOTAL	2      86,026		
<b>PACIFIC NORTHWEST RESEARCH FOUNDATION      ZIP CODE 98104</b>			
BAKKE, JOHN L.....	THYROTROPIN ASSAY OF BODY FLUIDS AND TISSUES.....	5R01 AM05638-16	98,835
HUTCHINSON, WILLIAM B.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05520-14	23,577
RILEY, VERNON T.....	BASIC STUDIES IN TUMOR DEPRIVATION THERAPY.....	3R01 CA12188-04S1	13,264
SANTISTEBAN, GEORGE A.....	SOCIAL STIMULATION, RNA, AND CARDIOVASCULAR DISEASE.....	9R01 HL20384-08	56,527
SANTISTEBAN, GEORGE A.....	SOCIAL STIMULATION, RNA, AND CARDIOVASCULAR DISEASE.....	5R01 NS09758-07	60,140
SPACKMAN, DARREL H.....	FREE AMINO ACIDS IN NORMAL AND TUMOR-BEARING MICE.....	5R01 CA16308-03	36,301
ORGANIZATION TOTAL	6      288,644		
<b>PROVIDENCE MEDICAL CENTER      ZIP CODE 98122</b>			
REID, JOHN M.....	SCATTERING OF ULTRASOUND BY CARDIAC TISSUES.....	3R01 HL14785-04S1	4,949
REID, JOHN M.....	ULTRASONIC SCATTERING STUDY FOR TISSUE CHARACTERIZATION.....	2R01 HL14785-05	85,722
SAUVAGE, LESTER R.....	ATTAINMENT OF OPTIMAL HEALING OF ARTERIAL PROSTHESES.....	3R01 HL15257-03S1	3,014
SAUVAGE, LESTER R.....	PROSTHESES FOR AORTOCORONARY BYPASS.....	1R01 HL18644-01A1	160,621
VIGGERS, ROBERT F.....	OPTIMUM ORIENTATION OF TILTING DISC PROSTHESIS.....	1R01 HL19448-01	12,016
ORGANIZATION TOTAL	5      266,322		
<b>PUGET SOUND BLOOD CENTER      ZIP CODE 98104</b>			
DONOHUE, DENNIS M.....	A COMMUNITY BLOOD RESOURCE CENTER.....	5P60 HL17265-02	748,963
SLICHTER, SHERRILL J.....	LEUKEMIA CENTER (PLATELET) PROGRAM.....	5R01 CA12190-06	156,465
ORGANIZATION TOTAL	2      905,428		
<b>U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-PHS HOSPITAL      ZIP CODE 98114</b>			
WILLS, ROBERT E.....	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION.....	5R01 HL10715-10	51,698
ORGANIZATION TOTAL	1      51,698		
<b>UNIVERSITY OF WASHINGTON      ZIP CODE 98195</b>			
ADAMSON, JOHN W.....	STUDIES OF IN VITRO ERYTHROPOIETIC REGULATION.....	1R01 AM19410-01	35,940
ALBERS, JOHN J.....	LECITHIN: CHOLESTEROL ACYLTRANSFERASE.....	2R01 HL15263-04	26,065
ALEXANDER, E RUSSELL.....	CERVICAL CANCER EPIDEMIOLOGY AND GENITAL INFECTIONS.....	5R01 CA11703-07	119,347
ALMERS, WOLFHARD.....	ELECTRIC STUDIES OF MUSCLE EXCITATION AND CONTRACTION.....	5R01 AM17803-02	22,825
ALMERS, WOLFHARD.....	ELECTRIC STUDIES OF MUSCLE EXCITATION AND CONTRACTION.....	5R01 AM17803-03	23,330
ANDERSEN, NIELS H.....	SESQUITERPENE BIOGENESIS: EVOLUTION OF ECOLOGIC ROLES.....	5R01 GM18143-05	33,943
ANDERSEN, NIELS H.....	THE MOLECULAR BASIS OF PROSTAGLANDIN BIOCHEMISTRY.....	5R01 GM20848-02	36,204
AREND, WILLIAM P.....	STUDIES ON MONONUCLEAR PHAGOCYTES.....	5R01 AI10825-05	44,862
BAGDADE, JOHN D.....	HIST DEFENSE IN DIABETES MELLITUS.....	5R01 AM17939-02	53,368
BAGDADE, JOHN D.....	MECHANISMS OF HYPERLIPIDEMIA AND ATHEROGENESIS IN UREMIA.....	5R01 HL16219-02	49,575
BAGDADE, JOHN D.....	MECHANISMS OF HYPERLIPIDEMIA AND ATHEROGENESIS IN UREMIA.....	5R01 HL16219-03	49,309
BAKER, DONALD W.....	CARDIOVASCULAR INSTRUMENTATION RESEARCH & DEVELOPMENT.....	5P01 HL07293-15	389,481
BASSINGTHWAIGHTE, JAMES B.....	HETEROGENEITY OF REGIONAL MYOCARDIAL BLOOD FLOW.....	7R01 HL19135-01	53,452
BASSINGTHWAIGHTE, JAMES B.....	HETEROGENEITY OF REGIONAL MYOCARDIAL BLOOD FLOW.....	5R01 HL19135-02	64,913
BASSINGTHWAIGHTE, JAMES B.....	DISPERSION OF DIFFUSIBLE INDICATORS IN THE BODY.....	7R01 HL19139-01	69,283
BENDICH, ARNOLD J.....	REPEATED DNA SEQUENCES AND LAND PLANT EVOLUTION.....	1R01 GM22870-01	84,132
BENDITT, EARL P.....	CELLULAR AND MOLECULAR PATHOLOGY.....	5P01 GM13543-11	161,757
BENDITT, EARL P.....	MECHANISMS OF ACUTE VASCULAR REACTION TO INJURY.....	5R01 HL03174-21	283,090
BERRY, HERBERT C.....	RADIATION THERAPY ONCOLOGY GROUP.....	2R10 CA12260-05	50,938
BIERMAN, EDWIN L.....	AGING, METABOLISM AND ATHEROSCLEROSIS.....	8P01 AG00299-06	290,198
BIERMAN, EDWIN L.....	PATHOBIOLOGY OF DIABETES MELLITUS.....	2P01 AM02456-18	272,298
BIERMAN, EDWIN L.....	TRIGLYCERIDE TRANSPORT IN HYPERLIPIDEMIA AND DIABETES.....	5R01 AM06670-13	61,801
BLANDAU, RICHARD J.....	PROGRAM PROJECT ON GAMETE TRANSPORT IN MAMMALS.....	5P50 HD03752-07	184,623
BOATMAN, EDWIN S.....	ULTRASTRUCTURE AND REPLICATION OF MYCOPLASMATACEAE.....	5R01 AI09586-06	26,506
BOATMAN, EDWIN S.....	EFFECT OF OZONE ON LUNG GROWTH AND DEVELOPMENT.....	5R01 ES01049-03	34,065
BOLENDER, ROBERT P.....	ANALYTICAL MORPHOLOGY AND BIOCHEMISTRY OF HEPATOCYTES.....	1R01 GM22759-01	53,274
BONICA, JOHN J.....	ANESTHESIA RESEARCH CENTER.....	5P50 GM15991-08	600,895

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WASHINGTON—Continued</b>			
BONICA, JOHN J.	ANESTHESIA RESEARCH CENTER	5P50 GM15991-09	848,097
BORNSTEIN, PAUL	BIOGENESIS AND FUNCTION OF CONNECTIVE TISSUE PROTEINS	5R01 AM11248-10	63,466
BRUNZELL, JOHN D.	PATHOPHYSIOLOGY OF GENETIC HYPERTRIGLYCERIDEMIAS	1R01 HL18687-01A1	49,532
BUCHANAN, THOMAS M.	IMMUNOCHEMISTRY & PATHOGENIC ROLE OF GONOCOCCAL PILI	1R01 AI13149-01	52,550
BUNT, ANN H.	PROTEIN TRANSPORT IN RETINAL PHOTORECEPTORS AND AXONS	5R01 EY01311-03	42,246
BUTLER, JOHN	PULMONARY SPECIALIZED CENTER OF RESEARCH	3P50 HL14152-05S2	183,265
BYERS, BRECK E.	MOLECULAR CYTOLOGY OF THE YEAST CELL CYCLE	5R01 GM18541-05	42,290
CALVIN, WILLIAM H.	NEURON REPETITIVE FIRING MECHANISMS	5R01 NS09677-06	29,936
CAMERMAN, ARTHUR	STEREOCHEMICAL PRINCIPLES FOR ANTICANCER DRUGS	5R01 CA15879-03	39,137
CARRICO, CHARLES J.	PROGRAM STUDY OF THE TRAUMATIZED PATIENT	5P50 GM21797-02	352,172
CHAMPOUX, JAMES J.	REPLICATION OF POLYOMA TUMOR-VIRUS DNA	3R01 CA13883-03S1	1,714
CHAMPOUX, JAMES J.	BIOCHEMICAL STUDIES ON THE DNA UNTWISTING ENZYME	1R01 GM23224-01	52,464
CHANDLER, JOHN W. JR.	IMMUNOPATHOLOGY AND THERAPY OF CORNEAL DISEASE	5R01 EY01282-03	35,004
CHAPMAN, C. RICHARD	ACUPUNCTURE AND PERCEPTION OF DENTAL PAIN IN MAN	5R01 DE04004-02	52,573
CHAPMAN, WARREN H.	EXPERIMENTAL BLADDER TUMORS	5R01 CA03842-18	39,952
CHAPMAN, WARREN H.	IMMUNOLOGY OF BLADDER TUMORS	2R26 CA14135-04	114,142
CHATRIAN, GIAN E.	CEREBRAL RESPONSES TO TOOTH PULP STIMULATION IN MAN	2R01 DE03485-04	33,525
CHRISTENSEN, GERALD M.	RESIDUAL POSTNATAL INJURY FROM PRENATAL X-IRRADIATION	5R01 CA15844-02	61,800
CHRISTENSEN, GERALD M.	RADIATION INDUCED FIBROSIS	5R01 CA17042-02	62,572
CHRISTIAN, GARY D.	A NEW CONCEPT IN FLUORESCENCE ANALYSIS	1R01 GM22331-01	77,221
CLOPTON, BEN M.	DEVELOPMENT OF NEURAL MECHANISMS IN HEARING	7R01 NS13052-01	36,603
CLOPTON, BEN M.	DEVELOPMENT OF NEURAL MECHANISMS IN HEARING	5R01 NS13052-02	16,693
CURRERI, P. WILLIAM	METABOLISM AND NUTRITION IN BURNS AND TRAUMA	5R01 GM21748-03	22,659
DALE, BEVERLY A.	KERATOHALIN IN KERATINIZATION: ORAL MUCOSA AND SKIN	1R01 DE04660-01	58,745
DALE, DAVID C.	MARROW REGULATION IN CYCLIC HEMATOPOIESIS	1R01 AM18951-01	39,290
DAVIDSON, ERNEST R.	ELECTRONIC STRUCTURE OF BIOCARBONYLS	1R01 GM22937-01	44,141
DAVIE, EARL W.	PROTEINS OF BLOOD COAGULATION	5R01 HL16919-02	301,960
DAVIE, EARL W.	PROTEINS OF BLOOD COAGULATION	5R01 HL16919-03	328,199
DAY, ROBERT W.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05714-06	83,333
DECKER, JAY D.	STAINING ALTERATIONS IN STRESSED COLLAGEN	5R01 DE04015-02	39,164
DILLARD, DAVID H.	SURGICAL APPROACH TO CONGENITAL HEART DISEASES	1R01 HL19203-01	75,125
DODGE, HAROLD T.	SUDDEN CARDIAC DEATH AND ONSET OF MYOCARDIAL INFARCTION	5R01 HL18805-02	383,801
DODGE, HAROLD T.	FUNCTIONAL CHARACTERISTICS OF THE LEFT HEART	1R01 HL19451-01	127,677
DOERMANN, AUGUST H.	INVESTIGATION OF GENETIC PROBLEMS WITH BACTERIOPHAGES	5R01 GM13280-13	74,854
DOERMANN, AUGUST H.	MOLECULAR CONTROL OF CAPSID FORM IN BACTERIOPHAGE T4	5R01 GM21340-02	46,724
DONALDSON, SUE K.	CARDIAC CONTRACTILITY: ROLE OF INTRACELLULAR MG2 PLUS	5R01 HL17373-02	33,000
DONALDSON, SUE K.	CARDIAC CONTRACTILITY: ROLE OF INTRACELLULAR MG2 PLUS	5R01 HL17373-03	36,356
EDWARDS, JOHN S.	NEURAL DEVELOPMENT	5R01 NS07778-09	60,648
EISDORFER, CARL	LEARNING AND PSYCHOPHYSIOLOGICAL STUDIES IN THE AGED	5R01 AG00462-03	119,795
EMANUEL, IRVIN	RESEARCH IN MENTAL RETARDATION AND CHILD DEVELOPMENT	5P30 HD02274-10	644,867
EMANUEL, IRVIN	RESEARCH IN MENTAL RETARDATION AND CHILD DEVELOPMENT	5P30 HD02274-11	673,481
ENSINCK, JOHN W.	THE REGULATION OF GLUCAGON SECRETION IN THE PRIMATE	5R01 AM16008-04	52,104
ENSINCK, JOHN W.	CONTROL OF SOMATOSTATIN IN THE MAMMAL	5R01 AM18422-02	34,536
EVANS, CHARLES A.	FLORA OF HUMAN SKIN	5R01 AI10938-02	22,401
FALKOW, STANLEY	NATURE OF ENTEROTOXIN PRODUCTION BY E. COLI AND Y. COMMA	5R22 AI10885-05	37,180
FANGMAN, WALTON I.	EUKARYOTIC CHROMOSOME STRUCTURE AND REPLICATION	2R01 GM18926-05	75,799
FEFER, ALEXANDER	IMMUNOLOGIC ASPECTS OF AUTOCHTHONOUS TUMOR REGRESSION	5R01 CA10777-08	90,695
PETZ, EBERHARD E.	NEURAL CONTROL OF MUSCLE ACTIVITY	5R01 NS12542-02	38,048
FIALKOW, PHILIP J.	HUMAN CANCER-ORIGIN AND GENETIC MARKERS	5R01 CA16448-02	50,206
FINCH, CLEMENT A.	KINETIC STUDIES OF THE BLOOD	3R01 HL06242-15S1	8,298
FINCH, CLEMENT A.	KINETIC STUDIES OF THE BLOOD	5R01 HL06242-16	321,862
FISCHER, EDMOND H.	RELATION OF STRUCTURE TO FUNCTION OF ENZYMES	5R01 AM07902-13	102,568
FISCHER, EDMOND H.	RELATION OF STRUCTURE TO FUNCTION OF ENZYMES	5R01 AM07902-14	108,196
FOX, JOHN P.	RHINOVIRUS IMMUNOLOGY AND EPIDEMIOLOGY	5R01 AI09775-05	83,680
FOX, JOHN P.	FAMILY STUDY OF INFLUENZA AND RHINOVIRUS EPIDEMIOLOGY	5R01 AI12269-02	86,797
FOY, HUORDIS M.	IMMUNITY TO MYCOPLASMA PNEUMONIAE INFECTIONS	5R01 AI10695-05	59,446
FOY, HUORDIS M.	NONBACTERIAL INFECTIONS IN OBSTETRICS	5R01 AI12005-03	53,035
FOY, HUORDIS M.	INFLUENZA-EPIDEMIOLOGY AND IMMUNITY	1R01 AI13500-01	61,028
FRANK, NEDD R.	OZONE EFFECTS ON OVERALL AND REGIONAL LUNG FUNCTION	5R01 HL18925-02	46,463
FUCHS, ALBERT F.	NEUROPHYSIOLOGICAL STUDIES OF THE OCULOMOTOR SYSTEM	5R01 EY00745-05	32,884

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WASHINGTON—Continued</b>			
FUCHS, ALBERT F.....	NEUROPHYSIOLOGY OF THE OCULOMOTOR SYSTEM.....	2R01 EY00745-06	38,838
FUJIMOTO, WILFRED Y.....	CELL CULTURE STUDY OF DIABETES AND VASCULAR DISEASE.....	5R01 AM15312-05	34,565
FUTTERMAN, SIDNEY.....	RETINAL METABOLISM.....	5R01 EY00343-11	45,401
FUTTERMAN, SIDNEY.....	INTERDISCIPLINARY VISION AND OPHTHALMIC RESEARCH CENTER.....	1P30 EY01730-01	86,199
GALE, CHARLES C.....	CNS-CONTROL OF PITUITARY, TEMPERATURE & METABOLISM.....	5R01 NS06622-11	70,009
GALLANT, JONATHAN A.....	CONTROL OF RNA SYNTHESIS.....	5R01 GM13626-10	53,899
GELLERT, RONALD J.....	PERINATAL MANIPULATION OF NEUROENDOCRINE DEVELOPMENT.....	5R01 ES00819-03	34,140
GELLERT, RONALD J.....	VITAMIN A AND REPRODUCTIVE FUNCTION.....	5R01 HD08716-02	54,526
GLOMSET, JOHN A.....	PLASMA CHOLESTEROL METABOLISM.....	5R01 HL10642-16	48,996
GOODNER, CHARLES J.....	CNS REGULATION OF FUEL MOBILIZATION AND STORAGE.....	5R01 AM10866-10	55,550
GOODNER, CHARLES J.....	CNS REGULATION OF FUEL MOBILIZATION AND STORAGE.....	5R01 AM10866-11	63,896
GORBMAN, AUBREY.....	HORMONAL ACTION ON CENTRAL NERVOUS FUNCTION.....	5R01 NS11343-03	98,843
GORDON, ALBERT M.....	CONTROL OF CONTRACTION IN STRIATED MUSCLE.....	5R01 NS08384-08	40,447
GOULD, KENNETH L.....	MEASUREMENT OF REGIONAL CORONARY FLOW RESERVE IN MAN.....	1R01 HL18492-01	53,000
GOULD, KENNETH L.....	MEASUREMENT OF REGIONAL CORONARY FLOW RESERVE IN MAN.....	5R01 HL18492-02	57,557
GOUTERMAN, MARTIN.....	ANALOG SYSTEMS FOR BIOLOGICAL PORPHYRINS.....	5R01 AM16508-04	63,104
GRAYSTON, J THOMAS.....	PREVENTION OF TRACHOMA & RELATED INFECTIONS.....	5R01 EY0219-16	162,226
GRAYSTON, J THOMAS.....	REGIONAL PRIMATE RESEARCH CENTER.....	2P40 RR00166-16	2,040,069
GREEN, WILLIAM L.....	STUDIES OF THYROID HORMONE METABOLISM.....	2R01 AM15810-04A1	45,023
GREENLEE, THEODORE K, JR.....	TENDON REGENERATION AND DEVELOPMENT.....	5R01 AM15762-05	55,311
GROMAN, NEAL B.....	PHAGE-BACTERIAL EFFECTS ON VIRULENCE OF C DIPHTHERIAE.....	2R01 AI10492-05	57,548
HALL, BENJAMIN D.....	EXPRESSION AND REGULATION OF EUKARYOTIC GENES.....	5R01 GM11895-13	93,118
HARKER, LAURENCE A.....	PLATELET MECHANISMS IN DISEASE.....	5R01 HL11775-09	93,865
HARRIS, A BASIL.....	ANATOMY OF EXPERIMENTAL SEIZURES.....	5R01 NS09037-06	18,739
HARRIS, A BASIL.....	ANATOMY OF EXPERIMENTAL SEIZURES.....	2R01 NS09037-07	43,483
HARRIS, FREDRIC A.....	DENTAL CARE OF THE CEREBRAL PALSIED CHILD.....	5R01 DE04179-02	26,950
HARTWELL, LELAND H.....	GENETIC ANALYSIS OF THE EUKARYOTIC CELL CYCLE.....	2R01 GM17709-06	77,165
HARTWELL, LELAND H.....	GENETIC ANALYSIS OF THE EUKARYOTIC CELL CYCLE.....	5R01 GM17709-07	94,945
HAUSCHKE, RICHARD H.....	RETROGRADE AXONAL TRANSPORT IN THE VISUAL SYSTEM.....	1R01 EY01756-01	64,467
HAUSCHKA, STEPHEN D.....	CLONAL ANALYSIS OF SKELETAL MUSCLE DEVELOPMENT.....	5R01 AM18860-01	84,029
HAZZARD, WILLIAM R.....	ESTROGEN EFFECTS ON LIPIDS, ARTERIES AND PLATELETS.....	5R01 HL18291-02	26,401
HEINRICH, WILLIAM L.....	PRENATAL ANDROGEN & DIFFERENTIATION OF STEROID DYNAMICS.....	5R01 HD08736-02	62,745
HENDRICKSON, ANITA E.....	DEVELOPMENT OF THE PRIMATE RETINA AND VISUAL THALAMUS.....	5R01 EY01208-03	42,909
HILLE, BERTIL.....	MOLECULAR PROPERTIES OF IONIC PERMEABILITY IN NERVE.....	5R01 NS08174-08	56,898
HLASTALA, MICHAEL P.....	VENTILATION/PERFUSION DISTRIBUTION IN THE LUNG.....	5R01 HL12174-09	74,024
HODSON, WILLIAM A.....	PEDIATRIC PULMONARY SCOR: HYALINE MEMBRANE DISEASE.....	1P50 HL19187-01	467,737
HOGNESS, JOHN R.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR07096-11	166,516
HOHL, THOMAS H.....	SURGICAL EFFECTS ON CRANIOFACIAL GROWTH AND DEVELOPMENT.....	1R01 DE04478-01	15,724
HOLMES, KING K.....	VENEREAL DISEASE RESEARCH PROGRAM PROJECT.....	5P01 AI12192-02	186,590
HORBETT, THOMAS A.....	CELLULAR INTERACTIONS WITH FOREIGN MATERIALS.....	1R01 HL19419-01	131,324
HORITA, AKIRA.....	STUDIES ON CARDIAC MONOAMINE OXIDASE.....	5R01 HL15426-02	24,652
HUNTSMAN, LEE L.....	NONINVASIVE DETERMINATION OF AORTIC BLOOD VELOCITIES.....	5R01 HL16830-03	40,581
HUTCHINSON, THOMAS E.....	A STUDY OF FROZEN HYDRATED BIOLOGICAL MATERIAL.....	7R24 RR01080-01	2,700
JENSEN, LYLE H.....	MOLECULAR STRUCTURE.....	5R01 AM03288-17	42,593
JENSEN, LYLE H.....	MOLECULAR STRUCTURE.....	2R01 AM03288-18	40,050
JENSEN, LYLE H.....	STRUCTURE OF BIOLOGICALLY IMPORTANT COMPOUNDS.....	5R01 GM10828-22	38,953
JENSEN, LYLE H.....	CRYSTALLOGRAPHIC STUDY OF PROTEINS.....	5R01 GM13366-11	57,714
JENSEN, LYLE H.....	CRYSTALLOGRAPHIC STUDY OF PROTEINS.....	5R01 GM13366-12	73,178
JOHNSON, DAVID G.....	THE REGULATION OF INSULIN SECRETION.....	5R01 AM17698-02	26,338
JOHNSON, DAVID G.....	THE REGULATION OF INSULIN SECRETION.....	5R01 AM17698-03	27,270
JUCHAU, MONT R.....	METABOLISM OF DRUG SUBSTRATES BY HUMAN PLACENTA.....	5R01 HD04839-06	40,300
KEHL, THEODORE H.....	SUPPORT FOR PHYSIOLOGY AND BIOPHYSICS COMPUTER.....	5P41 RR00374-09	192,441
KEHL, THEODORE H.....	SUPPORT FOR PHYSIOLOGY AND BIOPHYSICS COMPUTER.....	5P41 RR00374-10	196,168
KELLER, JOHN M.....	BIOCHEMISTRY OF HERPES VIRUS-INDUCED CELL FUSION.....	5R01 CA16902-03	30,633
KELLER, JOHN M.....	ANIMAL CELL SURFACE GLYCOSAMINOGLYCANS.....	1R01 CA19966-01	66,946
KELLER, PATRICIA J.....	STUDIES ON THE BYSSUS OF MYTILUS CALIFORNIANUS.....	5R01 DE03681-02	23,373
KENNY, GEORGE E.....	ANTIGEN COMPOSITION OF MYCOPLASMA PNEUMONIAE.....	5R01 AI06720-11	66,827
KERRICK, WALLACE G.....	CA02 RELEASE FROM SARCOPLASMIC RETICULUM.....	5R01 AM17081-02	39,449
KIEHN, EDWARD D.....	VIRAL GENES IN MALIGNANT TRANSFORMATION.....	5R01 CA15722-03	47,951
KLEBANOFF, SEYMOUR J.....	ANTIMICROBIAL EFFECT OF PEROXIDASE-ROLE IN LEUKOCYTES.....	5R01 AI07763-10	63,769



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WASHINGTON—Continued</b>			
KLEBANOFF, SEYMOUR J.	TUMOR CELL CYTOTOXICITY OF PHAGOCYtic CELLS.	1R01 CA18354-01	68,691
KLEBANOFF, SEYMOUR J.	UTERINE EOSINOPHIL STRUCTURE AND FUNCTION	5R01 HD02266-11	55,592
KNOPP, ROBERT H.	HYPERLIPIDEMIA IN PREGNANCY: DEFINITIONS & MECHANISMS	5R01 HD08968-03	41,655
KWIRAM, ALVIN L.	CHEMICAL PATHOLOGY OF MACROMOLECULES IN CARCINOGENESIS	1R01 CA19101-01	63,683
KWIRAM, ALVIN L.	ODMR OF FLAVINS AND FLAVOPROTEINS	1R01 GM22603-01	49,408
LABBE, ROBERT F.	METABOLIC ABNORMALITIES IN MENTAL RETARDATION	5P01 HD04665-06	234,574
LAGUNOFF, DAVID	STUDIES ON BETA-GLUCURONIDASE DEFICIENCY DISEASE	5R01 AM17578-03	41,625
LAIRD, CHARLES D.	NUCLEOTIDE SEQUENCE CHANGES IN EVOLUTION	5R01 GM19179-05	47,503
LOCKARD, ROBERT B.	PERIODIC BEHAVIOR IN FIELD AND LABORATORY	2R01 HD00942-13	36,994
LOWE, MICHAEL C.	MORPHOLOGICAL ASPECTS OF MYOCARDIAL AMINE METABOLISM	1R01 HL18150-01A1	37,315
LUND, JENNIFER S.	STRUCTURE AND DEVELOPMENT OF VISUAL CORTEX	3R01 EY01086-03S1	9,698
LUND, JENNIFER S.	STRUCTURAL BASIS FOR PROCESSING VISUAL INFORMATION	2R01 EY01086-04	86,181
LUND, RAYMOND D.	DEVELOPMENT AND PLASTICITY OF VISUAL CONNECTIONS	5R01 EY00596-08	54,274
LUSCHEI, ERICH S.	NEURAL PROCESSES IN SOMATIC MOVEMENT	5R01 NS08596-08	18,675
MACKLER, BRUCE	STUDIES OF BIOLOGICAL OXIDATIONS	9R01 GM23006-17	51,768
MACKLER, BRUCE	STUDIES OF HUMAN AND MAMMALIAN DEVELOPMENT	5P01 HD05961-06	282,620
MACKLER, BRUCE	STUDIES OF BIOLOGICAL OXIDATIONS	5R01 HL05457-16	47,894
MAKOUS, WALTER L.	DUPPLICITY THEORY AND THE STILES-CRAWFORD EFFECT	3R01 EY00788-03S1	1,022
MAKOUS, WALTER L.	DUPPLICITY THEORY AND THE STILES-CRAWFORD EFFECT	2R01 EY00788-04	39,357
MANNIK, MART	STUDIES ON THE RENAL DISEASE OF SYSTEMIC LUPUS	2R01 AM11476-10	75,668
MANNIK, MART	IMMUNOLOGIC STUDIES IN RHEUMATOID ARTHRITIS	2R01 AM12849-08	60,360
MARTIN, GEORGE M.	CLONAL SENEESCENCE OF SOMATIC CELLS	1R01 AG00257-01	147,241
MARTIN, GEORGE M.	CLONAL SENEESCENCE OF SOMATIC CELLS	5R01 AG00557-02	85,254
MARTIN, GEORGE M.	ABNORMAL PROTEINS IN THE PATHOGENESIS OF DISEASE	5R01 AM04826-16	81,754
MARTIN, JOAN C.	CONSEQUENCE OF IN UTERO TREATMENT	5R01 AG00466-02	36,592
MILLER, JOSEF M.	STUDIES OF THE COCHLEAR PROSTHESIS	1P50 NS13056-01	197,688
MINIFIE, FRED D.	NEUROMUSCULAR MECHANISMS UNDERLYING SPEECH PRODUCTION	5P01 NS11780-03	130,121
MOFFETT, BENJAMIN C, JR.	CRANIOFACIAL ARTICULATIONS AND MASTICATORY FUNCTION	2R01 DE02931-10A1	63,556
MORITZ, WILLIAM E.	ULTRASONIC MEASUREMENT OF CARDIAC GEOMETRY AND FLOW	5R01 HL16759-03	33,703
MORRIS, DAVID R.	BIOSYNTHESIS AND BIOLOGICAL FUNCTION OF POLYAMINES	5R01 GM13957-10	34,782
MOTTET, N KARLE	METHYLMERCURY EMBRYOPATHY	5R01 ES00677-05	126,828
MOTTET, N KARLE	METHYLMERCURY EMBRYOPATHY	5R01 ES00677-06	133,303
MOTULSKY, ARNO G.	SUPPORT FOR STUDY OF INHERITED DISEASES	5P50 GM15253-10	1,014,860
NEIMAN, PAUL E.	MOLECULAR MECHANISMS IN NEOPLASIA	5R01 CA12895-03	58,549
NELSON, JANET S.	CYTOKINETIC APPROACH TO EMT-6 SOLID TUMOR THERAPY	1R01 CA19899-01	49,877
NELSON, WENDEL L.	ABSOLUTE CONFIGURATION OF GLYCEROL DERIVATIVES	5R01 GM20357-02	24,105
NESTER, EUGENE W.	MOLECULAR BASIS OF CROWN GALL TUMORIGENESIS	5R01 CA13015-05	92,755
NESTER, EUGENE W.	AROMATIC ACID BIOSYNTHESIS IN BACILLUS SUBTILIS	5R01 GM09848-13	52,789
NEURATH, HANS.	PROTEOLYTIC ENZYMES—DIVERSITY, FUNCTION, HOMOLOGY	5P01 GM15731-08	341,657
NEURATH, HANS.	PROTEOLYTIC ENZYMES—DIVERSITY, FUNCTION, HOMOLOGY	5P01 GM15731-09	349,741
NEWELL, LAURA L.	THE INTERRELATION OF CHANGING KINSHIP AND DEMOGRAPHY	5R01 HD07607-02	55,662
ODLAND, GEORGE F.	TRAVEL GRANT FOR DERMATOLOGY MANPOWER CONFERENCE	1R13 AM20029-01	7,000
ODLAND, GEORGE F.	FUNCTIONAL-ULTRASTRUCTURAL STUDY OF MICROCIRCULATION	5R01 HL16805-03	75,599
PAGE, ROY C.	SUPPORT FOR ORAL BIOLOGY RESEARCH CENTER	5P50 DE02600-10	996,908
PAGE, ROY C.	CONNECTIVE TISSUE OF THE PERIODONTIUM	5R01 DE03301-05	56,726
PAGE, ROY C.	CONNECTIVE TISSUE OF THE PERIODONTIUM	5R01 DE03301-06	57,127
PALMITER, RICHARD D.	HORMONAL CONTROL OF DIFFERENTIATION AND GENE ACTION	5R01 HD09172-02	57,736
PARKER, ROBERT G.	FAST NEUTRON BEAM RADIOTHERAPY	5P01 CA12441-06	628,029
PARKER, ROBERT G.	EXPLORATORY STUDIES IN CANCER RESEARCH	1P20 CA19120-01	36,647
PETERSDORF, ROBERT G.	EXPERIMENTAL ENDOCARDITIS	5R01 HL17751-02	61,030
PETERSON, DONALD R.	GENETIC SUSCEPTIBILITY TO SUDDEN INFANT DEATH	5R01 HD09297-02	47,343
PETRA, PHILIP H.	STRUCTURE-FUNCTION OF STEROID BINDING PROTEINS	5R01 HD07190-05	37,974
PINTER, ROBERT B.	QUANTITATIVE DETERMINATION OF RETINAL FUNCTION	5R01 EY01285-02	24,018
PIOUS, DONALD A.	GENETIC STRUCTURE AND FUNCTION IN HUMAN CELLS	5R01 GM15883-12	50,777
POCKER, YESHAYAU.	PHYSICO-CHEMICAL STUDIES OF ENZYMIC HYDRATION	5R01 AM09221-12	67,585
POLLACK, GERALD H.	BLOOD FLOW MEASUREMENT BY ULTRASONIC CATHETER TIP METHOD	3R01 HL14645-04S1	16,426
POLLACK, GERALD H.	BLOOD FLOW MEASUREMENT BY ULTRASONIC CATHETER TIP METHOD	2R01 HL14645-05	59,824
POLLACK, GERALD H.	MYOCARDIAL SARCOMERE MECHANICS	1R01 HL18676-01	57,771
POLLACK, GERALD H.	MYOCARDIAL SARCOMERE MECHANICS	5R01 HL18676-02	65,556
PORTE, DANIEL, JR.	NEURAL REGULATION OF PANCREATIC HORMONE SECRETION	2R01 AM12829-08	67,060

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WASHINGTON—Continued</b>			
PRESTON, SAMUEL H.	CENTER FOR STUDIES IN DEMOGRAPHY AND ECOLOGY	1P30 HD09397-01	92,956
RIDDIFORD, LYNN M.	STUDIES OF JUVENILE HORMONE ACTION	5R01 AI12459-02	48,508
ROBERTSON, H. THOMAS, II	CO2 EXCRETION BY THE LUNG: DEPENDENCE ON PH.	1R23 HL19457-01	39,198
ROMAN, HERSCHEL L.	GENETIC INVESTIGATIONS IN YEAST-SACCHAROMYCES	5R01 AI00328-25	80,436
ROSS, RUSSELL	WOUND REPAIR, INFLAMMATION AND CONNECTIVE TISSUE	5R01 AM13970-15	53,432
ROSS, RUSSELL	BIOLOGY OF THE ARTERY WALL AND ATHEROSCLEROSIS	1P01 HL18645-01	429,970
ROSSE, CORNELIUS	LYMPHOCYTE PRODUCTION AND TRAFFIC IN THE BONE MARROW	1R01 CA20823-01	48,059
ROVIN, SHELDON	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05346-15	34,007
RUBIN, CYRUS E.	THE PATHOGENESIS OF HUMAN ALIMENTARY MUCOSAL DISEASE	5R01 AM16059-18	194,236
RUSHMER, ROBERT F.	SUPPORT FOR BIOENGINEERING RESEARCH CENTER	5P50 GM16436-08	424,317
SAARI, JOHN C.	BIOCHEMISTRY OF THE RETINA AND PIGMENT EPITHELIUM	5R01 EY00529-06	44,270
SACKETT, GENE P.	PREMATURITY IN PRIMATES: CAUSES, EFFECTS, PREVENTION	5R01 HD08633-03	177,620
SANDLER, LAURENCE M.	CYTOGENETICS OF MEIOSIS AND DEVELOPMENT IN DROSOPHILA	2R01 GM09965-14	87,983
SCHER, ALLEN M.	ELECTRICAL ACTIVITY IN VENTRICLE	3R01 HL01315-22S1	33,483
SCHER, ALLEN M.	ORIGIN OF THE ELECTROCARDIOGRAM	2R01 HL01315-23A1	30,990
SCHER, ALLEN M.	REGULATION OF THE PERIPHERAL CIRCULATION	5P01 HL16910-03	561,527
SCHMER, GOTTFRIED	CHEMICAL MODIFICATION OF ANTITUMOR ENZYMES	5R01 CA15674-03	66,332
SCHROEDER, THOMAS E.	ULTRASTRUCTURE AND BIOCHEMISTRY OF THE CONTRACTILE RING	5R01 GM19464-05	68,190
SCOTT, C. RONALD	BIOCHEMICAL CAUSES OF CHILD IMMUNE DEFICIENCY STATES	5R01 AI12617-02	73,445
SCRIBNER, BELDING H.	METABOLIC ASPECTS OF LONG TERM PARENTERAL NUTRITION	5R01 AM16849-03	53,081
SHEPARD, THOMAS H.	LABORATORY FOR THE STUDY OF HUMAN EMBRYOS AND FETUSES	5R01 HD00836-13	37,099
SHEPARD, THOMAS H.	TERATOGENICITY OF CYTOCHALASINS AND PLANT METABOLITES	5R01 HD08554-03	36,938
SIBLEY, CAROL H.	MEMBRANE IMMUNOGLOBULINS: STRUCTURE, FUNCTION, CONTROL	1R01 CA20314-01	63,875
SIMKIN, PETER A.	STUDIES OF URIC ACID TRANSPORT	5R01 AM13925-07	76,053
SMITH, DALE E.	NONBIOLOGIC IMPLANT SUPPORT FOR OVERDENTURES	5R01 DE03802-03	17,742
SMITH, LYNNWOOD S.	PATHOGENESIS OF BUBBLE AND CLOT FORMATION	5R01 HL16254-03	46,509
SMITH, ORVILLE A. JR.	ORAL-FACIAL GROWTH AND DEVELOPMENT IN PRIMATES	2R01 DE02918-08A1	116,550
SMUCKLER, EDWARD A.	PATHOLOGY OF CHEMICAL CARCINOGENESIS	2R01 CA13600-04	102,393
SPENCE, ALEXANDER M.	IMMUNITY AGAINST NITROSOUREA-INDUCED RAT BRAIN TUMORS	1R01 CA18385-01	43,189
STIRLING, CHARLES E.	ACTIVE TRANSPORT IN EPITHELIA	5R01 AM13182-08	33,710
STORB, URSULA B.	CONTROL OF IMMUNOGLOBULIN SYNTHESIS	5R01 AI10685-05	59,671
STRANDNESS, DONALD E. JR.	LONG-TERM STUDY OF DIABETIC VASCULAR DISEASE	1R01 HL20381-01	142,790
SWANSON, PHILLIP D.	ENERGY UTILIZING PROCESSES IN THE CENTRAL NERVOUS SYSTEM	5R01 NS05424-12	70,159
TELLER, DAVID C.	STUDIES OF ASSOCIATION REACTIONS OF ENZYMES	5R01 GM13401-11	50,453
TELLER, DAVID A.	VISION IN HUMAN INFANTS	1R01 EY01695-01	13,302
THOMAS, E. DONNALL	IRRADIATION AND MARROW TRANSPLANTATION IN LARGE ANIMALS	5R01 CA18047-13	118,082
TORNYAY, RHEBA DE.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05758-03	33,896
TOWE, ARNOLD L.	SINGLE UNIT ANALYSIS IN THE SOMATOSENSORY SYSTEM	5R01 NS00396-23	49,362
TOWE, ARNOLD L.	SINGLE UNIT ANALYSIS IN THE SOMATOSENSORY SYSTEM	5R01 NS00396-24	51,758
TOWE, ARNOLD L.	HIGH-SPEED DATA ACQUISITION AND COMPUTER ANALYSIS	5R01 NS05136-13	61,457
TOWNES, BRENDA D.	BIRTH PLANNING: VALUES AND DECISIONS	5R01 HD07225-02	27,924
TRUMAN, JAMES W.	HORMONE ACTION ON THE CENTRAL NERVOUS SYSTEM	1R01 NS13079-01	46,969
TURCK, MARVIN	EPIDEMIOLOGY OF E. COLI INFECTIONS	5R01 AI06311-11	41,059
VAN CITTERS, ROBERT L.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00037-16	807,788
VAN CITTERS, ROBERT L.	GENERAL CLINICAL RESEARCH CENTER	5M01 RR00133-12	283,244
VAN CITTERS, ROBERT L.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05432-15	261,305
VAN HASSEL, HENRY J.	TOOTH REPLANTATION STUDIES	5R01 DE03800-02	11,815
VINCENZI, FRANK F.	RED BLOOD CELL CALCIUM IN HEALTH AND DISEASE	5R01 AM16436-03	43,387
WALIKE, BARBARA C.	OBESITY AND THE REGULATION OF APPETITE	2R01 AM16217-04	64,290
WARD, ARTHUR A. JR.	EPILEPSY RESEARCH SUPPORT	5P50 NS04053-14	431,231
WARD, ARTHUR A. JR.	EPILEPSY RESEARCH SUPPORT	5P50 NS04053-15	233,135
WARD, RICHARD H.	GENETIC EPIDEMIOLOGY OF PRECURSORS OF HYPERTENSION	1R01 HL20159-01	73,155
WEDGWOOD, RALPH J.	DEVELOPMENTAL AND GENETIC DEFECTS OF IMMUNITY	5R01 AI07073-10	50,048
WEISER, RUSSELL S.	STUDIES ON IMMUNITY IN EXPERIMENTAL SYPHILIS	2R01 AI11384-04	34,321
WESTRUM, LESNICK E.	FINE STRUCTURE OF DEAFFERENTATION	5R01 NS09678-06	42,470
WHISLER, HOWARD C.	BIOLOGY OF ENTOMOGENOUS FUNGI	2R01 AI05882-14	61,669
WHITE, THOMAS T.	PANCREATIC DUCTAL VERSUS DUODENAL SECRETIONS	2R01 CA14380-04	71,922
WHITELEY, ARTHUR H.	BLOCKED TRANSLATION IN ECHINOID EGGS AND EMBRYOS	1R01 HD10312-01	47,831
WHITELEY, HELEN R.	REGULATION OF RNA SYNTHESIS	5R01 GM20784-02	63,325
WHORTON, JAMES C.	HYGIENIC REFORM IN JACKSONIAN AMERICA	5R01 LM02360-02	2,100

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WASHINGTON—Continued</b>			
WILLIAMS, ROBERT H.....	DIABETES ETIOLOGY, PATHOGENESIS, AND MANAGEMENT.....	5P01 AM02456-17	85,754
WILLIAMS, ROBERT H.....	DIABETES-ENDOCRINOLOGY RESEARCH CENTER.....	5P30 AM17047-02	144,104
WILLSON, RICHARD A.....	ACUTE HEPATIC FAILURE STUDY.....	5R01 AM17813-02	23,942
WISE, JOHN A.....	VIRAL ANTIGENICITY AND ITS RELATION TO VIRAL IMMUNITY.....	5R01 AI12827-02	43,389
WOLF, NORMAN S.....	STROMAL CONTROL OF HEMOPOIESIS—NORMAL AND DISEASED.....	5R01 AM15280-06	41,564
WOODS, STEPHEN C.....	NEURAL CONTROL OF BODY WEIGHT.....	5R01 AM17844-02	40,656
YOUNG, ELTON T, II.....	CONTROL OF FUNCTIONAL MESSENGER RNA SYNTHESIS.....	5R01 AI09456-07	36,798
ORGANIZATION TOTAL	274	30,218,868	
<b>VIRGINIA MASON RESEARCH CENTER ZIP CODE 98101</b>			
BEAN, MICHAEL A.....	CELLULAR IMMUNE RESPONSES TO HUMAN BLADDER CARCINOMA.....	7R26 CA19165-01	44,294
BEAN, MICHAEL A.....	CELLULAR IMMUNE RESPONSES TO HUMAN BLADDER CARCINOMA.....	2R26 CA19165-02	73,266
CUMMINGS, KENNETH B.....	EVALUATION AND MANAGEMENT OF BLADDER CARCINOMA.....	5R26 CA17466-02	41,219
CUMMINGS, KENNETH B.....	IMMUNE RESPONSES IN PATIENTS WITH BLADDER CANCER.....	1R26 CA18667-01	39,632
GIBBONS, ROBERT P.....	CHEMOTHERAPY FOR ADVANCED PROSTATIC CANCER.....	2R26 CA15421-03	50,137
HILDEBRANDT, JACOB.....	LUNG AND TISSUE MECHANICS.....	5R01 HL14854-04	40,964
HILDEBRANDT, JACOB.....	LUNG AND TISSUE MECHANICS.....	5R01 HL14854-05	43,326
HILDEBRANDT, JACOB.....	LUNG AND TISSUE MECHANICS.....	5R01 HL13233-07	15,560
HILDEBRANDT, JUDITH R.....	CARDIORESPIRATORY CONTROL IN EXERCISE.....	1R01 HL20568-01	30,478
LAI, YIH-LOONG.....	RESPIRATION DURING PROLONGED HYPERCAPNIA.....	2R01 AM07854-13	17,220
NIELSEN, ROBERT L.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM07854-14	8,889
NIELSEN, ROBERT L.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM07854-14	8,889
SMITH, KENT H.....	VASCULAR BUBBLES IN DECOMPRESSION SICKNESS.....	1R01 HL17503-01	98,296
SMITH, KENT H.....	VASCULAR BUBBLES IN DECOMPRESSION SICKNESS.....	5R01 HL17503-02	80,107
SUTTON, DWIGHT.....	LIMBIC AND NEOCORTEX MECHANISMS IN PHONATION.....	5R01 NS12165-02	52,760
WINTERBAUER, RICHARD H.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05588-10	22,304
ORGANIZATION TOTAL	15	658,452	
STATE TOTAL	380	41,468,175	
<b>WEST VIRGINIA</b>			
<b>MORGANTOWN</b>			
<b>WEST VIRGINIA UNIVERSITY ZIP CODE 26506</b>			
ALBRINK, MARGARET J.....	SERUM TRIGLYCERIDE AND DIABETIC COMPLICATIONS.....	5R01 AM09252-12	37,856
BLAIR, JAMES B.....	HORMONAL REGULATION OF GLUCONEOGENESIS.....	5R01 AM17664-03	22,155
BROWN, PAUL B.....	ORGANIZATION OF CUTANEOUS NEURONS OF THE DORSAL HORN.....	5R01 NS12061-03	39,960
BURRELL, ROBERT.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	5P40 RR00853-03	2,789
BUTCHER, ROY L.....	HORMONAL REGULATION OF LUTEAL FUNCTION AND REGRESSION.....	5R01 HD07762-03	21,611
BUTLER, LINDA.....	THE PHOTODYNAMIC EFFECT OF LIGHT ON DYE-FED INSECTS.....	5R01 AI10636-04	20,510
DAVIDSON, PAUL C.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	2R01 AM09113-13	13,856
DAVIDSON, PAUL C.....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS.....	5R01 AM09113-14	10,548
ENLOW, DONALD H.....	CRANIOFACIAL GROWTH AND REMODELING.....	5R01 DE03761-04	15,035
FLEMING, WILLIAM W.....	MECHANISM OF NONSPECIFIC SUPERSENSITIVITY TO DRUGS.....	5R01 NS08300-08	65,045
FRIST, RAMSEY H.....	COMOVIRUS RIBONUCLEIC ACIDS: STRUCTURE AND FUNCTION.....	2R01 AI09934-04A1	35,211
HAINES, DUANE E.....	CEREBELLAR EVOLUTION AND FUNCTION.....	5R01 NS11327-02	27,723
HAINES, DUANE E.....	CEREBELLAR EVOLUTION AND FUNCTION.....	5R01 NS11327-03	26,385
HARRIS, CHARLES L.....	RNA SULFURTRANSFERASE IN NORMAL AND CANCER TISSUES.....	5R01 CA16567-02	31,501
JOHNSON, DAVID C.....	QUANTITATIONS OF HUMAN PULP INNERVATION.....	5R23 DE04091-02	8,442
JONES, BARBARA.....	ACUTE LEUKEMIA GROUP B.....	5R10 CA07757-12	87,291
JONES, JOHN E.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05433-15	58,824
KATZ, SAM.....	HEMOGLOBIN: ENVIRONMENTAL STABILITY FACTORS.....	5R01 HL12955-05	26,292
LEE, PING.....	ERYTHROCYTES OF ANIMALS DURING EARLY DEVELOPMENT.....	5R01 HL13237-06	37,426
LEE, PING.....	ERYTHROCYTES DURING EARLY DEVELOPMENT.....	2R01 HL13237-07	45,520
LOTSPEICH, FREDERICK J.....	S-ADENOSYLMETHIONINE ANALOGS AS ANTITUMOR AGENTS.....	2R01 CA13776-04	31,929
LOTSPEICH, FREDERICK J.....	S-ADENOSYLMETHIONINE ANALOGS AS ANTITUMOR AGENTS.....	5R01 CA13776-05	37,766
MARTIN, R BRUCE.....	INVESTIGATION OF BIOELECTRIC PHENOMENA IN BONE.....	5R01 AM16612-03	44,702
MAWHINNEY, MICHAEL G.....	METABOLISM AND INHIBITION OF PROSTATIC CANCER.....	5R01 CA13103-05	33,515



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WEST VIRGINIA—Continued</b>			
MORAN, WALTER H. JR.	THE REGULATION OF ELECTROLYTE BALANCE IN SURGERY.....	5R01 GM20085-17	48,815
REYER, RANDALL W.	LENS AND NEURAL RETINA DEVELOPMENT AND REGENERATION.....	5R01 EY00196-19	22,929
ROBINSON, ROBERT L.	CNS CONTROL OF ADRENAL MEDULLARY SECRETION.....	1R01 NS12861-01	37,578
SANDER, EUGENE G.	BIOCHEMICAL MECHANISMS OF PYRIMIDINE ALKYLATION.....	7R01 CA21167-01	47,259
TROTTER, ROBERT R.	ADRENERGIC AND CHOLINERGIC INTERACTIONS IN THE EYE.....	5R01 EY01217-03	44,150
TRYFIATES, GEORGE P.	GROWTH OF MORRIS HEPATOMAS IN VITAMIN-B6 DEFICIENCY.....	3R01 CA13759-03S1	3,029
WATNE, ALVIN L.	CLINICAL CANCER.....	1R25 CA19530-01	81,885
ORGANIZATION TOTAL	31	1,067,537	
<b>SHEPHERDSTOWN</b>			
<b>SHEPHERD COLLEGE      ZIP CODE 25443</b>			
FIALA, SILVIO E.	THE ROLE OF CARCINOGEN IN NUCLEIC ACID METABOLISM.....	5R01 CA14084-04	42,246
ORGANIZATION TOTAL	1	42,246	
STATE TOTAL	32	1,109,783	
<b>WISCONSIN</b>			
<b>MADISON</b>			
<b>UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON      ZIP CODE 53706</b>			
ADLER, JULIUS	BEHAVIOR OF BACTERIA—BIOCHEMISTRY AND GENETICS.....	5R01 AI08746-08	89,882
ALLEN, JAMES R.	CARCINOGENIC POTENTIAL OF THE PYRROLIZIDINE ALKALOIDS.....	5R01 CA13288-03	48,425
ALLEN, JAMES R.	HEPATOCELLULAR METABOLISM OF CHLORINATED HYDROCARBONS.....	2R01 ES00472-06A1	40,117
ALLEN, JAMES R.	PATHOBIOLOGICAL RESPONSE OF PRIMATES TO BIPHENYLS.....	5R01 ES00958-02	51,103
ALLEN, JAMES R.	PATHOGENESIS OF HEPATIC VENO-OCCLUSIVE DISEASE.....	5R01 HL10941-10	37,664
AMIDON, GORDON L.	SUBSTRATE BINDING TO THE PROTEINASE ENZYMES.....	5R01 GM20437-02	28,649
ANDERSON, LAURENS	CHEMICAL SYNTHESIS OF OLIGOSACCHARIDES.....	2R01 AM10588-11	51,531
AUERBACH, ROBERT	TOLERANCE TO HETEROLOGOUS ERYTHROCYTES.....	5R01 AI11926-03	45,279
AZEN, EDWIN A.	GENETIC POLYMORPHISMS OF SALIVA.....	2R01 DE03658-11	36,924
AZEN, EDWIN A.	GENETIC POLYMORPHISMS OF SALIVA.....	5R01 DE03658-12	37,488
BACH, FRITZ H.	GENETIC FACTORS IN TRANSPLANT SURVIVALS.....	2R01 AI08439-09	146,899
BACH, FRITZ H.	PROGRAM PROJECT IN LYMPHOCYTE BIOLOGY.....	5R01 AI11576-04	277,281
BACH, FRITZ H.	PROGRAM PROJECT IN TUMOR & ALLOGRAFT IMMUNITY.....	5P01 CA16836-02	288,528
BALISH, EDWARD	THE ETIOLOGY OF CANCER OF THE LARGE BOWEL.....	3R26 CA14919-03S1	23,880
BASS, PAUL	MOTOR, ELECTRIC PROPERTIES OF STOMACH AND SMALL BOWEL.....	2R01 AM15417-04A1	49,267
BASS, PAUL	FLOW AND ELECTRIC MEASUREMENTS OF STOMACH-INTESTINE.....	5R01 AM18108-02	45,504
BECK, STANLEY D.	PHYSIOLOGY OF INSECT PHOTOPERIODISM.....	5R01 GM07557-16	25,536
BEINERT, HELMUT	COMPONENTS AND PATHWAYS IN BIOLOGICAL OXIDATIONS.....	5R01 GM12394-12	91,266
BEINERT, HELMUT	COMPONENTS AND PATHWAYS IN BIOLOGICAL OXIDATIONS.....	2R01 GM12394-13	121,588
BELZER, FOLKERT O.	STUDIES IN ORGAN PRESERVATION.....	1R01 AM18624-01	66,910
BENEVENGA, NORLIN J.	EFFECT OF AGE ON SULFUR AMINO ACID METABOLISM.....	5R01 AM15227-05	33,637
BENJAMIN, ROBERT M.	OLFACTORY PROJECTIONS TO THALAMUS AND NEOCORTEX.....	1R01 NS12721-01	62,509
BENJAMIN, ROBERT M.	OLFACTORY PROJECTIONS TO THALAMUS AND NEOCORTEX.....	5R01 NS12721-02	62,029
BERGDOLL, MERLIN S.	PURIFICATION AND CHEMISTRY OF THE ENTEROTOXINS.....	5R01 AI07615-11	109,894
BERKOFF, HERBERT A.	RELATION OF MITOCHONDRIAL CHANGES TO CARDIAC FAILURE.....	1R01 HL19378-01	62,110
BISGARD, GERALD E.	CHEMORECEPTORS AND VENTILATORY CONTROL.....	5R01 HL15473-03	38,121
BITTAR, NEVILLE	MULTIPHASE CHEMISTRY OF HUMAN HEART MUSCLE.....	3R01 HL14623-03S2	1,349
BITTAR, NEVILLE	STUDIES OF MYOCARDIAL REACTIVE HYPEREMIA.....	5R01 HL17759-02	63,408
BLATTNER, FREDERICK R.	REGULATORY SITES IN PRO-AND EUKARYOTIC GENOMES.....	5R01 GM21812-02	46,835
BOCK, ROBERT M.	DETERMINATION OF TRANSFER RIBONUCLEIC ACID STRUCTURE.....	5R01 GM12395-12	58,891
BOCK, ROBERT M.	REGIONAL PRIMATE RESEARCH CENTER SUPPORT.....	2P40 RR00167-16	2,182,437
BOCK, ROBERT M.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5P07 RR07098-11	205,023
BORISY, GARY G.	MECHANISM OF MICROTUBULE ASSEMBLY.....	5R01 GM21963-02	45,815
BOUSH, GEORGE M.	HEALTH HAZARDS OF PESTICIDE TERMINAL RESIDUES.....	5R01 ES00877-02	21,252
BOWMAN, ROBERT E.	EFFECTS OF LEAD ON FETAL AND NEONATAL DEVELOPMENT.....	5R01 ES01062-02	117,653
BOWMAN, ROBERT E.	BEHAVIORAL AND NEUROPATHOLOGICAL EFFECTS OF HALOTHANE.....	5R01 GM22685-02	80,221

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WISCONSIN—Continued</b>			
BOWDYS, M. DERIC	MOLECULAR BIOLOGY OF VISUAL RECEPTOR OUTER SEGMENTS	5R01 EY00463-08	58,900
BREMEL, ROBERT D.	OXYTOCIN IN EXCITATION-CONTRACTION COUPLING	1R01 HD09764-01	46,920
BRIGHTBILL, FREDERICK S.	CORNEL PRESERVATION AND KERATOPLASTY IN MONKEYS	5R23 EY01486-02	9,328
BRILL, WINSTON J.	STUDIES OF A FACTOR COMMON TO MOLYBDONENZYMES	5R01 GM22130-02	36,725
BROWN, LEROY T.	FINE STRUCTURE OF SPINAL CORD	7R01 NS12959-01	21,562
BROWN, RAYMOND R.	ROLE OF TRYPTOPHAN IN BLADDER CARCINOGENESIS	5R26 CA14552-03	96,082
BROWN, RAYMOND R.	EFFECT OF FAT SATURATION ON CANCER INCIDENCE IN MICE	1R01 CA20908-01	174,472
BRYAN, GEORGE T.	FACTORS INFLUENCING BLADDER CARCINOGENESIS	5R01 CA10017-10	84,965
BRYAN, GEORGE T.	CARCINOGENICITY AND METABOLISM OF 5-NITROFURANS	5R01 CA11946-07	61,272
BRYAN, GEORGE T.	CLINICAL PHARMACOLOGY RESOURCE CENTER (COOPERATIVE)	3R10 CA13290-04S1	190,664
BUCHLER, DOLORES A.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA18397-02	93,384
BUCKNER, CARL K.	BRONCHODILATING SUBSTANCES FROM VERBASCUM THAPSUS	1R01 HL19061-01	29,515
BURKHOLDER, PETER M.	CELLULAR SYNTHESIS OF COMPLEMENT COMPONENTS	5R01 AM16440-03	48,899
BURKHOLDER, PETER M.	IN VITRO CULTURE STUDIES OF RENAL GLOMERULAR DISEASES	1R01 AM18640-01	33,800
BURRIS, ROBERT H.	BIOLOGICAL FIXATION OF NITROGEN BY MICROORGANISMS	5R01 AI00848-21	45,664
CALDWELL, WILLIAM L.	MULTIDISCIPLINARY PROGRAM IN RADIATION ONCOLOGY	1P01 CA19278-01	746,379
CARLSON, STANLEY D.	NEUROPILE RECONSTRUCTION BY HVEM AND OTHER METHODS	1R01 EY01686-01	38,671
CHANG, LOUIS W.	EFFECT OF LEAD ON THE DEVELOPING NERVOUS SYSTEM	5R01 ES00955-02	27,764
CHU, FUN S.	IMMUNOCHEMICAL STUDIES ON CARCINOGENIC MYCOTOXINS	5R01 CA15064-03	24,466
CHU, FUN S.	IMMUNOCHEMICAL STUDIES ON CARCINOGENIC MYCOTOXINS	2R01 CA15064-04	48,313
CHU, FUN S.	INTERACTION OF MYCOTOXINS WITH MACROMOLECULES	5R01 ES00656-03	30,654
CLARK, ALLEN W.	TRANSMITTER RELEASE FROM THE NEUROMUSCULAR JUNCTION	5R01 NS11445-03	23,095
CLELAND, W. WALLACE	DETERMINATION OF ENZYME MECHANISMS BY KINETIC STUDIES	5R01 GM18938-05	37,800
CLIFTON, KELLY H.	RADIATION IN VITRO & MAMMARY CELL SURVIVAL & NEOPLASIA	2R01 CA13884-21	108,118
COATES, PENELOPE W.	SHEEP THIRD VENTRICLE, LH AND GONADAL STEROIDS	1R01 HD10010-01	47,468
COHEN, PHILIP P.	ENZYME BIOSYNTHESIS AND REGULATION: UREA BIOSYNTHESIS	5R01 CA03571-19	114,011
COHEN, PHILIP P.	ENZYME BIOSYNTHESIS AND REGULATION: UREA BIOSYNTHESIS	5R01 CA03571-20	96,561
CRIPPS, DEREK J.	ACTION SPECTRA AND BIOCHEMISTRY OF PHOTODERMATOSES	5R01 AM09995-11	32,421
CROW, JAMES F.	THE EFFECT OF MUTATION ON FITNESS	5R01 GM22038-02	84,733
CROWLEY, LAWRENCE	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RR05435-15	261,305
D'ALESSIO, DONN J.	EPIDEMIOLOGY AND COURSE OF VIRAL MYOPERICARDITIS	1R01 HL18535-01	59,099
DAHLBERG, JAMES E.	SMALL RNAs OF RNA TUMOR VIRUSES	5R01 CA15166-03	52,952
DAVENPORT, JOHN W.	THYROID FUNCTION, LEARNING, AND MOTIVATION	5R01 HD06060-05	81,901
DAVIES, JULIAN E.	MECHANISMS OF ANTIBIOTIC RESISTANCE IN MICROORGANISMS	5R01 AI10076-09	49,464
DAVIES, JULIAN E.	MECHANISMS OF ANTIBIOTIC RESISTANCE IN MICROORGANISMS	5R01 AI10076-10	51,923
DAVIES, JULIAN E.	MACROMOLECULAR SYNTHESIS IN YEAST—GENETICS/BIOCHEMISTRY	5R01 AI12448-02	45,600
DAVIES, JULIAN E.	MACROMOLECULAR SYNTHESIS IN YEAST—GENETICS/BIOCHEMISTRY	5R01 AI12448-03	45,303
DAVIS, HUGH L. JR.	COOPERATIVE BREAST CANCER GROUP	3R10 CA04594-15S1	14,671
DAVIS, LARRY D.	CELLULAR POTENTIAL CHANGES CAUSING CARDIAC ARRHYTHMIA	5R01 HL13375-07	14,022
DAY, RICHARD H.	A STUDY OF DYNAMIC 'WORLD SYSTEM' MODELS	5R01 HD07565-03	11,676
DE FOLIART, GENE R.	TRANSMISSION AND CONTROL OF CALIFORNIA-GROUP VIRUSES	5R01 AI07453-10	73,572
DE LUCA, HECTOR F.	METABOLISM AND FUNCTION OF THE FAT-SOLUBLE VITAMINS	2P01 AM14881-06	354,913
DE LUCA, PAUL M.	NEUTRON RADIATION CANCER THERAPY SOURCE	5R01 CA13469-05	160,954
DE MARS, ROBERT I.	GENETIC STUDIES WITH CULTIVATED MAMMALIAN CELLS	5R01 GM06983-17	134,898
DE VENECIA, GUILLERMO	THE EYE IN MALIGNANT HYPERTENSION	5R01 EY01007-03	66,973
DEMPSEY, JEROME A.	HUMAN VENTILATORY ADAPTATION TO HYPOXEMIA	2R01 HL15469-03	41,206
DEMPSEY, JEROME A.	HUMAN VENTILATORY ADAPTATION TO HYPOXEMIA	5R01 HL15469-04	32,108
DEMPSEY, JEROME A.	INTERSTITIAL LUNG DISEASE	5R01 HL17540-02	44,290
DEMPSEY, JEROME A.	INTERSTITIAL LUNG DISEASE	5R01 HL17540-03	48,139
DEUTSCH, HAROLD F.	HUMAN BLOOD PROTEINS	5R01 CA01786-22	103,769
DIERSCHKE, DONALD J.	HEMODYNAMIC/HORMONAL CONTROL OF LUTEAL FUNCTION	5R01 HD08737-02	52,549
DUNCAN, CHARLES L.	ENTEROPATHOGENIC FACTOR OF CLOSTRIDIUM PERFRINGENS	5R01 AI11865-06	54,894
DURAND, RALPH E.	INTERCELLULAR CONTACT & CELLULAR RADIOBIOLOGY	5R01 CA17522-02	24,049
DURAND, RALPH E.	SIMULATED TUMOR THERAPY WITH AN IN VITRO MODEL	1R01 CA19255-01	42,400
EASTERDAY, BERNARD C.	RECOMBINANT INFLUENZA VIRUS INFECTIONS IN ANIMALS	5R01 AI11674-03	52,663
EHRLICH, EDWARD N.	INSULIN MODE OF ACTION IN TOAD SKINS	5R01 AM18104-03	31,870
ENGERMAN, RONALD L.	STUDY OF DIABETIC RETINOPATHY	5R01 EY00300-11	153,985
ENGERMAN, RONALD L.	STUDY OF DIABETIC RETINOPATHY	5R01 EY00300-12	152,606
FAHLEN, LEONARD A.	REGULATION OF MAMMALIAN AMINO ACID METABOLISM	5R01 AM17587-03	42,733
FALLON, JOHN F.	AN ANALYSIS OF CELL DEATH DURING LIMB DEVELOPMENT	5R01 HD07402-02	30,491

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WISCONSIN—Continued</b>			
FERRY, JOHN D.....	VISCOELASTIC PROPERTIES OF BIOLOGICAL MACROMOLECULES.....	5R01 GM21652-02	45,467
FILLINGAME, ROBERT H.....	CHARACTERIZATION OF A MEMBRANE PROTON-TRANSLOCASE.....	1R01 GM23105-01	43,926
FISCHER, WILTON H.....	METABOLIC DISORDERS AND BRAIN DEVELOPMENT.....	5R01 HD08488-02	32,527
FITCH, WALTER M.....	STRUCTURAL-FUNCTIONAL-GENETIC RELATIONS OF HEME PROTEINS.....	5R01 AM15282-03	41,790
FOLTS, JOHN D.....	CORONARY FLOW STUDIES OF PARTIALLY OBSTRUCTED VESSELS.....	2R01 HL15681-04	57,199
GANTHER, HOWARD E.....	ORGANOSELENIUM COMPOUNDS: BIOSYNTHESIS AND FUNCTION.....	5R01 AM14184-07	44,769
GIBBONS, WILLIAM A.....	STRUCTURE, SPECTROSCOPY AND FUNCTION OF PEPTIDES.....	5R01 AM18604-02	38,745
GILBERT, ENID F.....	MICROCINEMATOGRAPHIC STUDY OF ABNORMAL CARDIOGENESIS.....	3R01 HL18050-01S1	3,287
GILBERT, ENID F.....	MICROCINEMATOGRAPHIC STUDY OF ABNORMAL CARDIOGENESIS.....	5R01 HL18050-02	35,409
GILBOE, DAVID D.....	METABOLISM OF THE BRAIN.....	5R01 NS05961-11	130,627
GOLDFARB, STANLEY.....	CHOLESTEROL METABOLISM IN HEPATIC NEOPLASMS.....	5R01 CA15664-03	29,395
GOLDSTEIN, ROBERT.....	AUTOMATED THRESHOLD AUDIOMETRY.....	5R01 NS09278-05	94,008
GOODFRIEND, THEODORE L.....	PEPTIDE-BINDING MACROMOLECULE IN PLASMA OF RETARDATES.....	1R01 HD10056-01	50,227
GOODFRIEND, THEODORE L.....	PEPTIDE-BINDING MACROMOLECULE IN PLASMA OF RETARDATES.....	5R01 HD10056-02	40,352
GOODFRIEND, THEODORE L.....	KININ INHIBITORS DETECTED BY USE OF RECEPTORS.....	1R01 HL19836-01	26,694
GORSKI, JACK.....	PROLACTIN IN NORMAL AND NEOPLASTIC PITUITARY TISSUE.....	5R01 CA18110-02	46,328
GORSKI, JACK.....	ESTROGEN REGULATION OF UTERINE GROWTH AND FUNCTION.....	5R01 HD08192-04	101,402
GRAHAM, FRANCES K.....	SHORT-TIME AND ORIENTING SYSTEMS IN INFANCY.....	2R01 HD01490-09	42,765
GREASER, MARION L.....	THIN FILAMENT CONTROL OF HEART CONTRACTION.....	1R01 HL18612-01	46,560
GREEN, DAVID E.....	MOLECULAR BIOLOGY OF MEMBRANE SYSTEMS.....	5P01 GM12847-12	399,653
GUILLERY, RAINER W.....	ABNORMALITIES IN VISUAL PATHWAYS.....	5R01 EY00962-04	37,043
GUILLERY, RAINER W.....	ABNORMALITIES IN VISUAL PATHWAYS.....	5R01 EY00962-05	55,156
GUILLERY, RAINER W.....	ARCHITECTONIC AND SYNAPTIC ORGANIZATION IN THE BRAIN.....	5R01 NS06662-10	83,332
GUILLERY, RAINER W.....	ARCHITECTONIC AND SYNAPTIC ORGANIZATION IN THE BRAIN.....	2R01 NS06662-11	95,835
HALL, TIMOTHY C.....	INFECTIVE ROLE OF AMINO ACID BINDING BY VIRAL RNA.....	2R01 AI1572-04	80,651
HANSON, ROBERT P.....	TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES.....	5R01 AI11250-04	94,951
HARPER, ALFRED E.....	EFFECTS OF ALTERED DIET AND PLASMA AMINO ACID PATTERN.....	5R01 AM10747-10	58,987
HARPER, ALFRED E.....	EFFECTS OF ALTERED DIET AND PLASMA AMINO ACID PATTERN.....	2R01 AM10747-11	127,198
HARPER, ALFRED E.....	EFFECT OF DIET AND HORMONES ON ENZYMES AND METABOLISM.....	5R01 AM10748-10	39,277
HARTING, JOHN K.....	CORTICAL EFFECTS OF SENSORY DEPRIVATION.....	5R01 EY01277-02	34,512
HEBER, RICK F.....	MENTAL RETARDATION CORE SUPPORT.....	2P30 HD03352-09	526,174
HIND, JOSEPH E.....	CENTER FOR RESEARCH IN CEREBRAL LOCALIZATION.....	5P01 NS06225-12	365,667
HIND, JOSEPH E.....	RESEARCH PROGRAM ON THE NEURAL BASIS OF HEARING.....	1P01 NS12732-01	322,030
HIND, JOSEPH E.....	RESEARCH PROGRAM ON THE NEURAL BASIS OF HEARING.....	5P01 NS12732-02	309,735
HIXON, THOMAS J.....	SPEECH BREATHING MECHANICS.....	5R01 NS09656-06	9,654
HOKIN, LOWELL E.....	BIOCHEMISTRY OF NAK ATPASE AND CARDIOACTIVE DRUGS.....	5R01 HL16318-18	105,584
HOKIN, LOWELL E.....	BIOCHEMISTRY OF NAK ATPASE AND CARDIOACTIVE DRUGS.....	5R01 HL16318-19	107,182
HONG, RICHARD.....	STUDY AND THERAPY OF IMMUNE DEFICIENCY.....	5R01 HD07778-04	74,273
HOWE, MARTHA M.....	ANALYSIS OF INTEGRATION MECHANISM OF BACTERIOPHAGE MU.....	5R01 AI12731-02	27,191
HUTCHINSON, C RICHARD.....	METABOLISM OF NATURALLY OCCURRING ANTITUMOR COMPOUNDS.....	2R01 CA17127-02	53,390
HUTCHINSON, C RICHARD.....	METABOLISM OF NATURALLY OCCURRING ANTITUMOR COMPOUNDS.....	5R01 CA17127-03	52,706
HUTCHINSON, C RICHARD.....	THE BIOSYNTHESIS OF BREFELDIN A AND JASMONIC ACID.....	5R01 GM20057-02	31,997
HUTCHINSON, C RICHARD.....	BIOGENETIC C-13 ENRICHMENT OF NATURAL PRODUCT DRUGS.....	5R01 GM21942-02	33,512
INMAN, ROSS B.....	STRUCTURE AND REPLICATION OF DNA.....	5R01 GM14711-10	61,056
JEFCOATE, COLIN R.....	ANGIOTENSIN, ACTH, AND MINERALOCORTICOID SYNTHESIS.....	5R01 AM18585-02	31,918
JEFCOATE, COLIN R.....	CYTOCHROME P450 CARCINOGENESIS & STEROID SYNTHESIS.....	5R01 CA16265-02	32,601
JOO, PATRICIA A.....	CHILDREN'S CANCER STUDY GROUP A.....	5R01 CA05436-16	66,517
JURIST, JOHN M.....	LONGITUDINAL STUDY OF SKELETAL STATUS IN WOMEN.....	5R01 AM16514-04	4,630
JURIST, JOHN M.....	NONDESTRUCTIVE EVALUATION OF FRACTURE UNION.....	5R01 AM17804-02	21,843
KAESBERG, PAUL J.....	STRUCTURE OF BIOLOGICAL MACROMOLECULES.....	5R01 AI01466-20	117,534
KAESBERG, PAUL J.....	TRANSLATION OF RNA VIRUS MESSENGERS.....	5R01 CA15613-03	73,631
KAHAN, BRENDA.....	DEVELOPMENTAL POTENTIALITIES OF TERATOMA CELLS.....	1R01 CA18994-01	73,266
KAHAN, LAWRENCE.....	IMMUNOCHEMICAL ANALYSIS OF 30S RIBOSOME STRUCTURE.....	5R01 GM22150-02	31,612
KALIL, RONALD E.....	DEVELOPMENTAL STUDIES OF THE VISUAL SYSTEM.....	5R01 EY01331-03	42,269
KALIL, RONALD E.....	DEVELOPMENTAL STUDIES OF THE VISUAL SYSTEM.....	5R01 EY01331-04	43,162
KARAVOLAS, HARRY J.....	STEROID BIOCHEMISTRY OF THE HYPOTHALAMIC-OVARIAN AXIS.....	5R01 HD05414-05	56,976
KASPER, CHARLES B.....	NUCLEAR & MICROSOAL MEMBRANES FROM NORMAL & TUMOR CELLS.....	5R01 CA17300-02	73,535
KELSEY, CHARLES A.....	NEUTRON RADIATION CANCER THERAPY SOURCE.....	2R01 CA13469-04	169,537
KENT, RAYMOND D.....	SPEECH SOUND IMITATION SKILLS OF CHILDREN AND ADULTS.....	5R01 NS12281-02	16,107
KORNGUTH, STEVEN E.....	BIOCHEMISTRY OF ISOLATED SYNAPTIC COMPLEXES.....	5R01 NS05631-10	55,713



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WISCONSIN—Continued</b>			
KUBINSKI, HENRY A.	INTERMOLECULAR CROSS-LINKS IN CHEMICAL TUMORIGENESIS.....	5R01 CA16989-02	38,211
KUNG, CHING	GENETIC DISSECTION OF CILIA AND MEMBRANE.....	5R01 GM22714-02	43,709
LARDY, HENRY A.	CONTROL PROCESSES IN MAMMALIAN CELLS.....	5R01 AM10334-11	226,358
LARDY, HENRY A.	CARBOHYDRATE METABOLISM.....	5R01 HD08630-03	52,423
LARDY, HENRY A.	P-ENOLPYRUVATE CARBOXYKINASE AND SUDDEN INFANT DEATH.....	1R01 HD10183-01	57,133
LICHTENSTEIN, E. PAUL	REDUCTION OF HAZARDS WITH INSECTICIDES OF PLANT ORIGIN.....	5R01 ES00861-02	58,216
LINKSWILER, HELLEN M.	MECHANISMS OF PROTEIN-INDUCED HYPERCALCAEMIA IN MAN.....	1R01 AM19290-01	49,554
LIPTON, BRUCE H.	DEVELOPMENTAL ANALYSIS OF MUSCULAR DYSTROPHY.....	5R01 NS12171-02	22,496
LOWER, GERALD M. JR.	METABOLIC FACTORS INVOLVED IN BLADDER CARCINOGENESIS.....	2R26 CA14524-04	98,518
MACK, EBERHARD A.	BILE ACIDS: LIVER INJURY AND GALLSTONE DISSOLUTION.....	1R01 AM19245-01	54,362
MANNING, DEAN D.	MECHANISM AND USES OF ANTI-IG IMMUNOSUPPRESSION.....	5R01 CA17531-02	27,149
MATSUMURA, FUMIO	MECHANISMS OF INSECTICIDE DEGRADATION.....	5R01 ES00857-02	42,163
MAZZESS, RICHARD B.	TOTAL BODY BONE MINERAL BY DICHROMATIC ABSORPTOMETRY.....	5R01 AM17892-02	28,787
MC CLAIN, WILLIAM H.	GENETIC ANALYSIS OF tRNA'S CODED BY PHAGE T4.....	5R01 AI10257-05	75,418
METTER, GERALD E.	CENTRAL ONCOLOGY GROUP.....	3R10 CA12271-05S1	346,350
METZENBERG, ROBERT L. JR.	THE GENETIC CONTROL OF PROTEIN SYNTHESIS.....	5R01 GM08995-15	66,000
MILLER, JAMES A.	METABOLIC ACTIVATION OF CHEMICAL CARCINOGENS.....	5R01 CA15785-03	52,984
MUELLER, GERALD C.	MOLECULAR EVENTS CONTROLLING CELL DIVISION.....	5R01 GM21262-02	25,582
MUKERJEE, PASUPATI.	BILE SALTS AS ATYPICAL SURFACTANTS AND SOLUBILIZERS.....	5R01 AM17281-03	31,141
MUNKRES, KENNETH D.	MOLECULAR BIOLOGY OF AGING OF FUNGI AS MODELS.....	5R01 GM21205-02	47,851
NELSON, DAVID L.	FUNCTIONAL DIFFERENTIATION IN BACTERIAL MEMBRANES.....	5R01 GM19499-05	44,114
NOMURA, MASAYASU	GENETICS AND BIOCHEMISTRY OF RIBOSOME BIOSYNTHESIS.....	5R01 GM20427-04	153,116
NORTHROP, DEXTER B.	KINETIC MECHANISMS OF ANTIBIOTIC INACTIVATING ENZYMES.....	1R01 AI11603-01A2	44,301
O'LEARY, MARION H.	MECHANISM OF ACTION OF ASPARAGINASE.....	5R01 CA16980-02	16,319
O'LEARY, MARION H.	COENZYME BINDING AND NERVOUS DISORDERS.....	5R01 NS07657-09	61,023
ODELL, GERARD B.	MATURATION OF LIVER FOR THE METABOLISM OF BILIRUBIN.....	7R01 HD10932-01	49,289
OLSEN, WARD A.	INTESTINAL MUCOSAL FUNCTION IN DIABETES.....	2R01 AM13927-07	22,595
OLSON, CARL	PATHOGENESIS OF VIRUS (BOVINE) INDUCED LYMPHOSARCOMA.....	5R01 CA13628-04	85,902
OPTIZ, JOHN M.	PROGRAM PROJECT IN CLINICAL GENETICS.....	5P01 GM20130-03	268,038
ORME-JOHNSON, WILLIAM, III.	EPR AND X-RAY STUDIES OF ELECTRON-TRANSFER ENZYMES.....	5R01 GM17170-05	87,188
ORSINI, MARGARET W.	COMPARATIVE UTERINE VASCULATURE.....	3R01 HD00267-17S1	12,498
OSBORN, JUNE E.	VIRULENCE AND ATTENUATION OF CYTOMEGALOVIRUSES.....	5R01 AI12515-02	34,262
OSBORN, JUNE E.	BIOCHEMICAL STUDIES OF HUMAN PAPAPOVIRUS JC.....	5R01 CA16582-02	48,190
OSBORN, JUNE E.	BIOCHEMICAL STUDIES OF HUMAN PAPAPOVIRUS JC.....	5R01 CA16582-03	44,821
PAMUKCU, A. M.	URINARY BLADDER CARCINOGENESIS BY BRACKEN FERN.....	2R26 CA14523-03	143,367
PATAU, REVA THERMAN	HUMAN CYTOGENETICS: SELECTED PROBLEMS.....	1R01 GM22881-01	74,080
PATE, JACK L.	BIOLOGY OF ASTICCACALUS BIPROSTHECUM.....	2R01 GM19859-04	36,610
PERLMAN, DAVID.	MICROBIAL METABOLITE INHIBITION OF TUMOR B12 BINDING.....	5R01 CA16904-03	39,914
PETERSON, RICHARD E.	ENVIRONMENTAL POLLUTANTS AND TOXICOLOGY OF THE LIVER.....	5R01 ES01332-02	35,414
PITOT, HENRY C.	PATHOLOGY OF BIOCHEMICAL DISORDERS IN VITRO.....	5R01 AM13660-06	64,982
PITOT, HENRY C.	CANCER RESEARCH AT THE MC ARDLE LABORATORY.....	2P01 CA07175-13	3,038,423
PITOT, HENRY C.	CANCER RESEARCH AT THE MC ARDLE LABORATORY.....	5P01 CA07175-14	3,086,802
PORTER, JOHN W.	ENZYMATIC SYNTHESIS OF CHOLESTEROL AND FATTY ACIDS.....	5R01 AM01383-20	44,806
PORTER, JOHN W.	REGULATION OF LIPID BIOSYNTHESIS AND TRANSPORT.....	5R01 HL1364-02	36,537
QUAY, WILBUR B.	SEROTONERGIC MECHANISMS IN NEUROENDOCRINE CONTROL.....	1R01 HD10263-01	47,322
RAMIREZ, GUILLERMO	CENTRAL ONCOLOGY GROUP.....	3R10 CA12272-05S1	36,747
RANKIN, JOHN H.	REGULATION OF TUMOR BLOOD FLOW.....	1R01 CA18756-01	40,747
RANKIN, JOHN H.	METABOLISM IN PERFUSED FETAL AND NEWBORN RABBIT LUNGS.....	1R01 HL18952-01	33,755
RAO, SAMBHOORAO T.	STRUCTURAL STUDIES ON FRAGMENT I OF PROTHROMBIN.....	1R01 HL19254-01	19,630
RAPER, KENNETH B.	GROWTH AND DEVELOPMENT IN CELLULAR SLIME MOLDS.....	5R01 AI04915-21	43,436
REED, CHARLES E.	AUTONOMIC FUNCTION IN ATOPIC DISEASE.....	5R01 AI08106-07	74,599
REED, CHARLES E.	ALLERGIC DISEASE CENTER.....	5P50 AI10404-06	98,884
REZNIKOFF, WILLIAM S.	RECOGNITION OF TRANSCRIPTION REGULATORY SIGNALS.....	2R01 GM19670-04	63,076
REZNIKOFF, WILLIAM S.	RECOGNITION OF TRANSCRIPTION REGULATORY SIGNALS.....	5R01 GM19670-05	74,100
RHODE, WILLIAM S.	SUPPORT OF LABORATORY COMPUTER FACILITY.....	5P41 RR00249-01	442,768
RIBELIN, WILLIAM E.	CREATION OF RESEARCH ANIMAL RESOURCES PROGRAM.....	5P40 RR00952-02	81,473
RICH, DANIEL H.	TENTOXIN: SYNTHESIS, CONFORMATION AND MODE OF ACTION.....	5R01 GM19311-05	55,101
RICH, DANIEL H.	BIOMEDICAL RESEARCH SUPPORT GRANT.....	5S07 RR05456-14	55,399
RICHARDSON, THOMAS	MACROMOLECULES IMMOBILIZED IN VIVO AND CANCER THERAPY.....	5R01 CA16817-02	26,771
RIS, HANS	SUBMICROSCOPIC ORGANIZATION OF CHROMOSOMES.....	5R01 GM04738-20	57,696

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WISCONSIN—Continued</b>			
RIS, HANS	SUBMICROSCOPIC ORGANIZATION OF CHROMOSOMES	2R01 GM04738-21	61,612
RIS, HANS	ELECTRON MICROSCOPE FACILITY FOR BIOMEDICAL RESEARCH	3P41 RR00570-05S1	8,802
RIS, HANS	ELECTRON MICROSCOPE FACILITY FOR BIOMEDICAL RESEARCH	5P41 RR00570-06	101,842
RISSEK, REX G.	THE INDUCTION OF MURINE LEUKEMIA BY ABLSON VIRUS	1R01 CA20620-01	38,108
ROBINSON, JOSEPH R.	QUANTITATION OF PRECORNEAL DRUG MOVEMENT IN THE EYE	5R01 EY01332-02	16,443
ROBINSON, JOSEPH R.	OCULAR DRUG PHARMACOKINETICS FROM MULTIPLE DOSES	1R01 EY01681-01	19,732
ROSE, DAVID P.	PITUITARY AND THYROID FUNCTION IN BREAST CANCER	5R01 CA17579-02	36,971
ROSS, LEONARD E.	DEVELOPMENTAL PROCESSES IN CHILDREN AT RISK FOR MR.	5P01 HD08240-03	271,479
ROWND, ROBERT H.	THE CONTROL OF THE REPLICATION OF BACTERIAL EPISOMES	5R01 GM14398-10	75,410
ROWND, ROBERT H.	THE CONTROL OF THE REPLICATION OF BACTERIAL EPISOMES	5R01 GM14398-11	91,342
RUECKERT, ROLAND R.	STRUCTURE OF PICORNAVIRUSES AND LEUKOVIRUSES	5R01 CA08662-11	88,799
RUHO, ARNOLD E.	MOLECULAR CHARACTERIZATION—BETA-ADRENERGIC RECEPTORS	5R01 NS12392-02	61,247
RUSCH, HAROLD P.	CLINICAL CANCER CENTER SUPPORT (BIOMETRICS)	3P30 CA14520-03S2	517,828
RUSCH, HAROLD P.	CLINICAL CANCER CENTER SUPPORT (COMPREHENSIVE)	2P30 CA14520-04	1,411,860
RUSCH, HAROLD P.	DEVELOPMENT OF REGIONAL CANCER CONTROL PROGRAM	3R18 CA16405-01S2	156,748
SCHALLER, M. JOSEPH	CHROMATIC VISION IN INFANCY. OPERANT CONDITIONING	5R01 HD09322-02	20,813
SHRAGO, EARL S.	REGULATION OF LIPID METABOLISM IN HUMAN ADIPOSE TISSUE	5R01 AM15893-03	44,839
SHRAGO, EARL S.	CONTROL MECHANISMS IN GLUCONEOGENESIS	5R01 GM14033-10	47,135
SHUG, AUSTIN L.	METABOLIC CHANGE DURING CARDIAC ISCHEMIA	5R01 HL17736-02	55,321
SIEGEL, FRANK L.	BRAIN PROTEIN AND RNA SYNTHESIS IN HYPERAMINOACIDEMIAS	5R01 HD09045-02	36,058
SIEGEL, FRANK L.	CALCIUM-BINDING PROTEINS IN NERVOUS TISSUE	5R01 NS11652-03	57,797
SIH, CHARLES J.	BIO-SYNTHESIS OF PENICILLINS AND CEPHALOSPORINS	5R01 AI10519-05	64,561
SIH, CHARLES J.	CHEMISTRY AND SYNTHESIS OF BIO-ACTIVE SUBSTANCES	2R01 AM04874-15	64,800
SIH, CHARLES J.	CHEMISTRY AND SYNTHESIS OF BIO-ACTIVE SUBSTANCES	5R01 AM04874-16	69,294
SIH, CHARLES J.	PROSTAGLANDINS AND OTHER PHYSIOLOGICALLY-ACTIVE LIPIDS	5R01 AM09688-12	53,806
SIMPSON, DAVID P.	ACID-BASE BALANCE REGULATION OF RENAL METABOLISM	5R01 AM18351-03	118,411
SMITH, DONALD W.	IMMUNITY IN EXPERIMENTAL AIRBORNE TUBERCULOSIS	5R22 AI07485-09	48,212
SMITHIES, OLIVER	GENETIC CONTROL OF PROTEIN STRUCTURE AND SYNTHESIS	5R01 GM20069-04	129,705
SNOWDON, CHARLES T.	CONTROL MECHANISMS OF PATHOLOGICAL FEEDING BEHAVIORS	5R01 AM17171-03	52,609
SORKOWICZ, HANNA M.	DEVELOPMENT OF CENTRAL NERVOUS TISSUE IN CULTURE	5R01 NS08626-08	49,648
SPEAR, PETER D.	VISUAL INTEGRATION IN THE BRAIN	1R01 EY01916-01	57,563
STONE, WILLIAM H.	IMMUNOGENETICS AND REPRODUCTION IN RHESUS MONKEYS	5R01 HD07385-03	59,853
SUGDEN, BILL	NUCLEOCAPSID PROTEINS OF EPSTEIN-BARR VIRUS	1R01 CA19236-01	52,617
SUNDARALINGAM, MUTTAIYA	X-RAY STUDIES ON NUCLEIC ACID CONSTITUENTS	5R01 GM17378-07	74,347
SUNDARALINGAM, MUTTAIYA	X-RAY DIFFRACTION STUDIES ON TRNAS	5R01 GM18455-05	68,178
SUSMAN, MILLARD	PROGRAM PROJECT IN GENETICS	5P01 GM15422-09	499,784
SUSMAN, MILLARD	PROGRAM PROJECT IN GENETICS	5P01 GM15422-10	525,197
SUTTIE, JOHN W.	NUTRITIONAL AND METABOLIC EFFECTS OF FLUORIDES	5R01 AM15521-05	49,413
SWEET, JAMES A.	CENTER FOR POPULATION RESEARCH	5P30 HD05876-05	344,959
SWICK, ROBERT W.	PROTEIN TURNOVER IN PROTEIN AND CALORIE DEPRIVATION	2R01 AM14704-06	46,316
TAEUBER, KARL E.	MIGRATION AND REDISTRIBUTION: SMSA DETERMINANTS	1R01 HD10666-01	62,886
TAKAYAMA, KUNI K.	MECHANISM OF ACTION OF ISONIAZID ON TUBERCLE BACILLUS	2R01 AI11297-04	82,656
THOMPSON, WAYNE H.	LA CROSSE ARBOVIRUS STUDIES IN FORESTED AREAS	3R01 AI11547-03S1	1,010
THOMPSON, WAYNE H.	LA CROSSE ARBOVIRUS STUDIES IN FORESTED AREAS	2R01 AI11547-04	101,884
TOREN, E. CLIFFORD, JR.	MICROCOMPUTERIZED AUTOMATION FOR CLINICAL CHEMISTRY	1R01 GM22524-01	86,356
TROST, BARRY M.	STERIODS, PROSTAGLANDINS, ETC: SYNTHETIC DESIGNS	5R01 GM13598-11	55,751
TULUNAY-KEESEY, ULKER	VISUAL PROCESSES WITH A MOTIONLESS RETINAL IMAGE	3R01 EY00308-08S2	30,087
TULUNAY-KEESEY, ULKER	VISUAL PROCESSES WITH A MOTIONLESS RETINAL IMAGE	2R01 EY00308-09	45,197
UEHLING, DAVID T.	PROTECTIVE ROLE OF URINARY IMMUNOGLOBULINS	5R01 AM14945-06	39,207
UPDIKE, STUART J.	IMMOBILIZED ENZYMES TO ALTER AND ANALYZE METABOLISM	2R01 GM16133-09	71,103
UPDIKE, STUART J.	EXTRACORPOREAL RESPIRATORY GAS EXCHANGE: NEW APPROACH	3R01 HL15668-03S1	17,324
UPDIKE, STUART J.	EXTRACORPOREAL RESPIRATORY GAS EXCHANGE: NEW APPROACH	2R01 HL15668-04	63,939
VAN RYZIN, JOHN R.	STATISTICAL PROBLEMS IN CLINICAL CANCER RESEARCH	5R01 CA18332-02	48,208
VAN RYZIN, JOHN R.	BAYESIAN ESTIMATORS AND TESTS FOR CENSORED SURVIVAL DATA	1R01 GM23129-01	14,478
VEDEJS, EDWIN	SYNTHESIS OF CYTOCHALASINS OF VARIABLE RING SIZE	5R01 CA17918-02	48,723
WALKER, DUARD L.	STUDY OF A NEW HUMAN PAPOVA VIRUS	5R01 AI11217-04	94,895
WALLOW, INGOLF H.	THE BLOOD-RETINAL BARRIER IN DIABETIC RETINOPATHY	1R01 EY01634-01	56,027
WANG, CHING Y.	PREVENTION OF FANFT URINARY BLADDER TUMORIGENESIS	5R26 CA17449-02	65,799
WARD, PATRICIA S.	HUGH CABOT (1872-1945): A STUDY IN MEDICAL REFORM	1R01 LM02856-01	14,927
WEBSTER, JOHN G.	ELECTRODE MOTION ARTIFACT REDUCTION	1R01 GM21567-01A1	10,688

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WISCONSIN—Continued</b>			
WEISBLUM, BERNARD.....	STUDIES OF HUMAN CHROMOSOMAL DNA.....	5R01 GM20871-03	37,730
WELLING, PETER G.....	FACTORS INFLUENCING GASTROINTESTINAL DRUG ABSORPTION.....	5R01 GM20327-03	33,084
WEN, SUNG-FENG.....	PHOSPHATE TRANSPORT IN REMNANT KIDNEY.....	5R01 AM16435-03	21,083
WEN, SUNG-FENG.....	MICROPUNCTURE STUDY OF RENAL GLUCOSE TRANSPORT.....	5R01 AM17503-03	34,359
WENTWORTH, BERNARD C.....	GROWTH HORMONE AS A DETERMINANT OF INHERENT GROWTH.....	5R01 HD08474-02	18,890
WHITLOCK, HOWARD W, JR.....	BIOLOGICAL MODIFICATION OF THE ANSAMYCINS.....	5R01 AI11232-03	80,887
WOLBERG, WILLIAM H.....	NONINVASIVE MONITORING OF FLUID LOSSES BY PHOTON SCAN.....	1R01 HL18556-01	21,513
WOODSON, ROBERT D.....	EFFECT OF ALTERED OXYGEN AFFINITY ON OXYGEN TRANSPORT.....	5R01 HL17808-02	50,129
WOOLSEY, CLINTON N.....	COMPARATIVE STUDIES ON MAMMALIAN NERVOUS SYSTEM.....	2R01 NS03641-10	44,160
YALE, CHARLES E.....	SUPPORT FOR ANIMAL CARE FACILITY.....	5P40 RR00821-03	30,637
YATVIN, MILTON B.....	RADIATION & DRUG EFFECTS IN NORMAL & NEOPLASTIC TISSUE.....	5R01 CA16577-02	29,308
YATVIN, MILTON B.....	REPAIR AND SURVIVAL IN IRRADIATED CELLS.....	5R01 CA16579-02	39,830
YODA, ATSUNOBU.....	CARDIOTONIC STEROID-NAK ATPASE INTERACTIONS.....	5R01 HL16549-02	39,694
YU, HYUK.....	MEMBRANE FLUIDITY & PHOTORECEPTOR FUNCTION.....	5R01 EY01483-02	42,931
YU, HYUK.....	MEMBRANE FLUIDITY & PHOTORECEPTOR FUNCTION.....	5R01 EY01483-03	45,947
YUILL, THOMAS M.....	WILDLIFE RESERVOIRS OF ARBOVIRUSES.....	2R01 AI00771-21A1	50,989
ZACHMAN, RICHARD D.....	ENZYMES FOR LECITHIN SYNTHESIS IN NEONATAL HUMAN LUNG.....	5R01 HL17239-03	37,980
ZIMMERMAN, HOWARD E.....	PHOTOCHEMISTRY OF ORGANIC MOLECULES.....	5R01 GM07487-16	92,540
ZOGRAFI, GEORGE.....	INTERFACIAL LIPID-LIPID INTERACTIONS.....	1R01 GM22478-01	27,969
ZU RHEIN, GABRIELE M.....	MORPHOLOGY OF CHRONIC VIRAL INFECTIONS OF THE BRAIN.....	2R01 NS11129-04	61,806
ORGANIZATION TOTAL	296	32,494,133	
<b>MARSHFIELD</b>			
<b>MARSHFIELD MEDICAL FOUNDATION ZIP CODE 54449</b>			
GREENLAW, ROBERT M.....	EXPLORATORY STUDIES IN CANCER RESEARCH.....	1R18 CA18728-01	67,047
ORGANIZATION TOTAL	1	67,047	
<b>MILWAUKEE</b>			
<b>MARQUETTE UNIVERSITY ZIP CODE 53233</b>			
KRISHNAKUMARAN, ALAPATI.....	CHANGES IN HORMONE METABOLISM AND DIFFERENTIATION.....	1R01 GM22429-01	40,697
KRISHNAKUMARAN, ALAPATI.....	REPROGRAMMING AND DNA SYNTHESIS IN EPIDERMAL CELLS.....	5R01 HD08089-02	36,272
PIACSEK, BELA E.....	EFFECT OF AGING ON THE CNS-PITUITARY-GONADAL AXIS.....	5R01 AG00474-02	22,400
PIACSEK, BELA E.....	ENVIRONMENTAL ROLES IN SEXUAL MATURATION.....	5R01 HD04375-06	30,694
UNSWORTH, BRIAN R.....	BIOCHEMICAL PARAMETERS OF AGING BRAIN.....	5R01 NS12334-02	67,076
ORGANIZATION TOTAL	5	197,139	
<b>MEDICAL COLLEGE OF WISCONSIN ZIP CODE 53233</b>			
AMMON, HELMUT V.....	BILE ACIDS, FATTY ACIDS AND INTESTINAL FUNCTION.....	5R01 AM17941-02	30,361
ANKEL, HELMUT K.....	ENZYMATIC INTERCONVERSIONS OF SUGAR NUCLEOTIDES.....	5R01 GM20331-08	32,383
ANTHOLINE, WILLIAM E.....	ESR CHARACTERIZATION OF IMMOBILIZED FREE RADICAL.....	1R01 CA20737-01	41,756
BARBORIAK, JOSEPH J.....	LIPEMIAS AND RECONSTRUCTIVE CARDIAC SURGERY.....	5R01 HL14378-05	90,536
BARBORIAK, JOSEPH J.....	MODIFICATION OF LUNG IMMUNE RESPONSES.....	5R01 HL17691-03	10,389
BORELLA, LUIS D.....	IMMUNOCOMPETENT CELLS IN ACUTE LYMPHOCYTIC LEUKEMIA.....	5R01 CA18602-02	69,906
CATLIN, B WESLEY.....	DEOXYRIBONUCLEIC ACIDS AND NUCLEASES OF BACTERIA.....	5R01 AI02353-18	25,983
CATLIN, B WESLEY.....	DEOXYRIBONUCLEIC ACIDS AND NUCLEASES OF BACTERIA.....	2R01 AI02353-19	53,126
CURTIS, ROBIN L.....	TRANSFER OF NEUROMUSCULAR MUTANTS TO STANDARD STRAINS.....	5R01 NS07680-09	48,381
DAVIS, STARKEY D.....	EXPERIMENTAL PSEUDOMONAS CHEMOTHERAPY.....	5R01 AI13148-02	28,637
DAVIS, STARKEY D.....	EXPERIMENTAL PSEUDOMONAS KERATITIS.....	5R01 EY01665-02	33,482
DAWSON, CHRISTOPHER A.....	PULMONARY HEMODYNAMICS.....	1R01 HL19298-01	24,930
DAWSON, CHRISTOPHER A.....	ABSORPTION OF ANTIGEN THROUGH INFLAMED LUNGS.....	1R01 HL19733-01	17,498
DODDS, WYLIE J.....	ESOPHAGEAL MOTION IN HEALTH AND DISEASE.....	5R01 AM15540-05	26,968
EDELHAUSER, HENRY F.....	PATHOGENESIS OF CORNEAL EDEMA AFTER INTRAOCULAR SURGERY.....	2R01 EY00933-04	44,468
FINK, JORDAN N.....	SUPPORT FOR PULMONARY DISEASE RESEARCH CENTER.....	5P50 HL15389-05	872,067
FRERMAN, FRANK E.....	STUDIES ON LIPID TRANSPORT.....	2R01 AM15527-05	47,231
FRERMAN, FRANK E.....	STUDIES ON LIPID TRANSPORT.....	5R01 AM15527-06	35,450
FUJIMOTO, JAMES M.....	ALTERATION IN DRUG METABOLISM BY CERTAIN CARBAMATES.....	5R01 GM16503-08	51,907
GHAZARIAN, JACOB G.....	CONTROL OF ENZYMES IN THE VITAMIN D3 ENDOCRINE COMPLEX.....	1R01 AM19145-01	41,936



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WISCONSIN—Continued</b>			
GIROTTI, ALBERT W.	PHOTOCHEMISTRY OF BILIRUBIN AND BLOOD COMPONENTS	2R01 HD07753-03	41,596
GLICK, DAVID M.	MOLECULAR BASIS FOR CONTROL OF GASTRIC ACID SECRETION	1R01 AM18095-01A1	40,156
GROSSBERG, SIDNEY E.	METABOLIC STUDIES OF VIRAL-INDUCED HYPERLIPEMIAS	3R01 HL14933-03S1	2,408
HARDMAN, HAROLD F.	EFFECTS OF DRUGS UPON MYOCARDIAL HYPOXIA	2R01 HL08311-12A1	53,109
HEBERT, LEE A.	INTRARENAL PRESSURE AND RENAL FUNCTION	3R01 HL13323-06S1	2,500
HUSSA, ROBERT O.	MECHANISM OF ACTINOMYCIN D-ENHANCED HCG SECRETION	5R01 CA14232-02	42,270
HYDE, JAMES S.	PHYSICAL PROPERTIES OF NITROXIDE RADICAL SPIN LABELS	1R01 GM22923-01	69,101
IGLER, FRANZ O.	EFFECTS OF PULMONARY CO <sub>2</sub> ON THE CONTROL OF BREATHING	1R23 HL19556-01	43,769
ITSKOVITZ, HAROLD D.	SURGICAL AND PHYSIOLOGIC STUDIES OF ISOLATED KIDNEYS	5R01 HL12677-08	128,826
KALUHOFF, RONALD K.	METABOLIC EFFECTS OF INSULIN ANTAGONISM AND DEFICIENCY	5R01 AM10305-11	37,037
KAMPINE, JOHN P.	SYMPATHETIC AFFERENT ACTIVITY OF CARDIAC ORIGIN	5R01 HL16511-02	35,791
KASSELL, BEATRICE	GASTRIC ZYMOGENS, PROTEASES AND INHIBITORS	5R01 AM09826-11	44,233
KEMP, ROBERT G.	ALLOSTERIC PROPERTIES OF PHOSPHOFRUCTOKINASE	5R01 AM11410-10	10,838
KEMP, ROBERT G.	METABOLIC EVENTS IN VIRUS-INDUCED LEUKEMOGENESIS	5R01 CA16539-02	58,877
KERRIGAN, GERALD A.	BIOMEDICAL RESEARCH SUPPORT GRANT	5S07 RO05434-15	158,923
KLITGAARD, HOWARD M.	SOMATOMEDIN, SOMATOTROPHIN AND THYROXINE RELATIONSHIP	5R01 HD08164-02	32,064
KLITGAARD, HOWARD M.	EFFECTS OF THYROID HORMONES ON CARTILAGE METABOLISM	1R01 HD09991-01	20,895
LECH, JOHN J.	ADRENERGIC COMPONENTS OF LIPID METABOLISM	5R01 AM07681-11	38,064
LECH, JOHN J.	METABOLISM OF ENVIRONMENTAL CONTAMINANTS BY FISH	5R01 ES01080-02	22,960
LECH, JOHN J.	STUDIES ON EXPERIMENTAL SHOCK	5R01 HL07564-15	38,209
LEMANN, JACOB, JR.	SUGAR INGESTION, CALCIURIA, CRYSTALLURIA, AND STONES	5R01 AM15089-07	85,165
LENNON, EDWARD J.	CLINICAL CANCER EDUCATION GRANT	5R25 CA17986-02	52,990
LEWIS, JOSEPH D.	PROTEOLYTIC ENZYMES IN HEMORRHAGIC SHOCK	5R01 GM22284-02	27,017
LONG, SALLY Y.	CRANIAL BASE AND PALATE DEVELOPMENT	5R01 DE04041-02	35,500
MC CARTY, DANIEL J.	STUDIES OF CRYSTAL DEPOSITION DISEASE	5R01 AM18074-03	49,463
MC CARTY, DANIEL J.	GENERAL CLINICAL RESEARCH CENTER	2M01 RR00058-15	548,557
MC GIFF, JOHN C.	REGULATION OF RENAL CIRCULATION AND SALT EXCRETION	3R01 HL13624-04S1	11,590
MEHLER, ALAN H.	STRUCTURAL AND BIOLOGICAL PROPERTIES OF TRNA	5R01 GM13037-12	73,171
MURPHY, JEROME V.	ENZYMATIC DETECTION OF NEURODEGENERATIVE DISORDERS	5R01 HD09842-02	43,358
MURRAY, M. PATRICIA	KINEMATIC STUDIES OF NORMAL AND ABNORMAL LOCOMOTION	5R01 AM13854-13	61,826
PINKEL, DONALD P.	CANCER CENTER SUPPORT GRANT (SPECIALIZED)	5P30 CA17700-02	132,674
PINKEL, DONALD P.	COMBINATION CHEMOTHERAPY IN CHILDHOOD LEUKEMIA	5R01 CA17851-02	45,357
QUICK, ARMAND J.	TELANGIECTASIA AND ASPIRIN INTOLERANCE IN HEMOPHILIA	3R01 HL01612-29S1	2,918
SANCES, ANTHONY, JR.	NONINVASIVE EVALUATION OF TRAUMA PATIENTS	5R01 GM19680-03	68,411
SOERGEL, KONRAD H.	PATHOPHYSIOLOGY OF DIARRHEA	5R01 AM18526-02	66,448
STEKIEL, WILLIAM J.	VASCULAR SMOOTH MUSCLE REACTIVITY IN HYPOTENSIVE STRESS	1R01 GM23594-01	37,763
STEKIEL, WILLIAM J.	VASCULAR MUSCLE REACTIVITY IN HYPERTENSION	5R01 HL16454-02	27,775
SWARTZ, HAROLD M.	PARAMAGNETIC CHANGES DURING TUMOR DEVELOPMENT	5R01 CA13341-02	34,380
SWARTZ, HAROLD M.	EFFECT OF PARTIAL HEPATECTOMY ON RADIATION TOLERANCE	5R01 CA16088-02	38,181
SWARTZ, HAROLD M.	BIOMEDICAL ESR SPECTROSCOPY CENTER	1P41 RR01008-01	335,347
TAKETA, FUMITO C.	STRUCTURE AND FUNCTION OF HEMOGLOBIN	5R01 AM15770-08	51,335
VAN HORN, DIANE L.	REGENERATIVE CAPACITY OF CORNEAL ENDOTHELIUM	5R01 EY01436-02	35,353
ORGANIZATION TOTAL	62	4,413,600	
<b>MILWAUKEE BLOOD CENTER ZIP CODE 53233</b>			
ASTER, RICHARD H.	HEMORRHAGIC DISEASES	5R01 HL13629-06	91,649
DUQUESNOY, RENE J.	PREVENTION OF IMMUNODEFICIENCY	5R01 AI12507-03	31,891
ORGANIZATION TOTAL	2	123,540	
<b>MILWAUKEE CHILDREN'S HOSPITAL ZIP CODE 53233</b>			
PINKEL, DONALD P.	CLINICAL CANCER EDUCATION PROGRAM	5R25 CA17997-02	48,700
ORGANIZATION TOTAL	1	48,700	
<b>MOUNT SINAI MEDICAL CENTER ZIP CODE 53233</b>			
BORTIN, MORTIMER M.	SPECIFIC ADOPTIVE IMMUNOTHERAPY OF ACR LEUKEMIA	1R01 CA20484-01	40,351
DEE, THOMAS H.	EARLY DIAGNOSIS OF CANDIDIASIS IN COMPROMISED HOSTS	1R01 CA21652-01	21,945
GUTMANN, FRANK D.	STUDIES OF UNILATERAL KIDNEY MODELS	7R01 AM20076-01	30,613
TRUITT, ROBERT L.	ADOPTIVE IMMUNOTHERAPY IN DECONTAMINATED ACR MICE	5R01 CA18440-02	40,949
ORGANIZATION TOTAL	4	133,858	

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>WISCONSIN—Continued</b>			
UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MILWAUKEE		ZIP CODE 53201	
BROYLES, ROBERT H.....	DIFFERENTIATION OF RED BLOOD CELLS IN VITRO.....	1R01 AM19232-01	28,045
COOK, JAMES M.....	SYNTHESIS OF ALPHA AND BETA ADRENERGIC ANTAGONISTS.....	1R01 HL17897-01A1	42,090
MC FARLAND, JAMES T.....	RESONANCE RAMAN PROBE STUDIES OF BIOMOLECULES.....	5R01 GM21916-02	35,944
PETERING, DAVID H.....	METALS AND ANTITUMOR ACTIVITY OF THIOSEMICARBAZONES.....	2R01 CA16156-03	51,876
PHILLIPS, RUTH B.....	CYTOGENETIC MARKERS IN SICKLE CELL FAMILIES.....	5R01 AM16886-02	27,733
WARREN, RICHARD M.....	STUDIES IN SPEECH PERCEPTION.....	5R01 HD07855-02	52,110
ORGANIZATION TOTAL	6 237,798		
STATE TOTAL	377 37,715,815		
<b>WYOMING</b>			
UNIVERSITY OF WYOMING		ZIP CODE 82070	
BARDEN, ROLAND E.....	AFFINITY LABELS FOR ACYL-COA UTILIZING ENZYMES.....	5R01 GM20077-03	27,605
DUNN, THOMAS G.....	ENDOCRINE EFFECTS OF INTRAUTERINE GROWTH RETARDATION.....	5R01 HD08824-02	23,833
HALEY, BOYD E.....	APPLICATION OF PHOTO AFFINITY NUCLEOTIDE ANALOGS.....	5R01 GM21998-02	30,072
HOLT, SMITH L.....	BIOLOGICALLY IMPORTANT TRANSITION METAL COMPLEXES.....	3R01 HL14590-03S1	3,431
KAISER, IVAN I.....	EFFECTS OF 5-FLUOROURACIL AND 2-THIOURACIL ON RNA.....	5R01 GM20326-03	33,540
KAISER, IVAN I.....	SELENIUM IN BIOLOGICAL MACROMOLECULES.....	5R01 GM22093-02	35,211
MEYER, E GERALD.....	BIOMEDICAL RESEARCH SUPPORT GRANT.....	1S07 RR07157-01	20,111
ROSE, JAMES D.....	ELECTROPHYSIOLOGY OF THE GENITAL SENSORY SYSTEM.....	7R01 NS13748-01	19,508
SMITH, DAVID V.....	ADAPTATION AND SENSORY CODING IN TASTE.....	5R01 NS10211-04	18,479
ORGANIZATION TOTAL	9 211,790		
STATE TOTAL	9 211,790		
<b>PUERTO RICO</b>			
MAYAGUEZ			
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO AT MAYAGUEZ		ZIP CODE 00708	
MISKIMEN, GEORGE W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08103-02	74,456
MISKIMEN, GEORGE W.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08103-03	71,229
ORGANIZATION TOTAL	2 145,685		
<b>PONCE</b>			
CATHOLIC UNIVERSITY OF PUERTO RICO		ZIP CODE 00731	
CARRASQUILLO, ARNALDO.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08067-05	85,191
ORGANIZATION TOTAL	1 85,191		
<b>SAN JUAN</b>			
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO AT RIO PIEDRAS		ZIP CODE 00931	
ADAM, WALDEMAR.....	BIOGENESIS AND SYNTHESIS OF PROSTANOID ENDOPEROXIDES.....	5R01 GM22119-02	45,470
HILLYER, GEORGE V.....	SUPPORT FOR STUDY OF BIOMEDICAL SCIENCES.....	5S06 RR08102-04	231,218
ORGANIZATION TOTAL	2 276,688		
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS		ZIP CODE 00936	
ALVARADO, FRANCISCO.....	FUNCTIONAL ORGANIZATION OF THE INTESTINAL BRUSH BORDER.....	5R01 AM17750-03	41,857
BRUSH, JAMES S.....	INSULIN PROTEASE-PURIFICATION, MECHANISM, INHIBITION.....	5R01 AM18632-02	21,757
DE MELLO, WALMOR C.....	EFFECTS OF HORMONES ON CARDIAC ELECTROGENESIS.....	5R01 HL10897-11	35,072

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>PUERTO RICO—Continued</b>			
DEL CASTILLO, JOSE .....	LABORATORY OF NEUROBIOLOGY .....	5P01 NS07464-09	135,271
DEL CASTILLO, JOSE .....	LABORATORY OF NEUROBIOLOGY .....	2P01 NS07464-10	56,006
GIROD, CARLOS E .....	GENERAL CLINICAL RESEARCH CENTER .....	5M01 RR00063-14	469,478
HADDOCK, LILLIAN .....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS .....	2R01 AM07601-13	17,434
HADDOCK, LILLIAN .....	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS .....	5R01 AM07601-14	8,192
MARCIAL, VICTOR A .....	RADIATION THERAPY ONCOLOGY GROUP .....	2R10 CA12258-05	101,797
MARCIAL, VICTOR A .....	CONTROLLED RADIATION INJURY TO THE LIVER .....	5R01 CA16810-02	13,743
PEREZ-SANTIAGO, ENRIQUE .....	CANCER CENTER SUPPORT GRANT .....	5P30 CA16598-02	804,292
PEREZ-SANTIAGO, ENRIQUE .....	CLINICAL CANCER EDUCATION PROGRAM .....	1R25 CA18927-01	182,153
PEREZ-SANTIAGO, ENRIQUE .....	BIOMEDICAL RESEARCH SUPPORT GRANT .....	5S07 RR05419-15	100,286
VELEZ-GARCIA, ENRIQUE O .....	SOUTHEASTERN CANCER STUDY GROUP .....	5R10 CA12223-05	61,896
ORGANIZATION TOTAL	14	2,049,234	
STATE TOTAL	19	2,556,798	
<b>VIRGIN IS (US)</b>			
<b>CHARLOTTE AMALIE</b>			
COLLEGE OF THE VIRGIN ISLANDS      ZIP CODE 00801			
FORENZA, SALVATORE .....	BIOMEDICAL COMPOUNDS FROM THE CARIBBEAN FLORA AND FAUNA .....	5S06 RR08100-02	78,508
GIESSING, HELEN .....	BIOMEDICAL COMPOUNDS FROM THE CARIBBEAN FLORA AND FAUNA .....	5S06 RR08100-03	33,520
ORGANIZATION TOTAL	2	112,028	
STATE TOTAL	2	112,028	
<b>OTHER COUNTRIES</b>			
<b>ARGENTINA</b>			
<b>BUENOS AIRES</b>			
<b>INSTITUTE OF BIOLOGY AND EXPERIMENTAL MEDICINE</b>			
GUTNISKY, ABRAHAM .....	HUMAN URINARY ERYTHROPOIETIN COLLECTION .....	5R01 HL16675-02	50,739
ORGANIZATION TOTAL	1	50,739	
<b>INSTITUTO DE INVESTIGACIONES BIOQUIMICAS 'FUNDACION CAMPOMAR'</b>			
LELOIR, LUIS F .....	POLYPRENOLS AND POLYSACCHARIDES .....	2R01 GM19808-04	50,000
ORGANIZATION TOTAL	1	50,000	
<b>NAVAL INSTITUTE OF SCIENTIFIC AND TECHNICAL RESEARCH</b>			
CASTRO, JOSE A .....	MECHANISM OF CARBON TETRACHLORIDE HEPATOTOXICITY .....	2R01 AM13195-07A1	32,280
ORGANIZATION TOTAL	1	32,280	
<b>UNIVERSITY OF BUENOS AIRES</b>			
FRYDMAN, BENJAMIN .....	BIOSYNTHETIC INTERMEDIATES OF PORPHYRINS .....	5R01 GM11973-11	35,833
ORGANIZATION TOTAL	1	35,833	
STATE TOTAL	4	168,852	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>AUSTRALIA</b>			
<b>CANBERRA</b>			
<b>AUSTRALIAN NATIONAL UNIVERSITY</b>			
WHITE, MICHAEL J.....	CYTOGENETICS—CHROMOSOME REARRANGEMENTS.....	1R01 GM22710-01	15,276
ORGANIZATION TOTAL	1 15,276		
<b>PARKVILLE</b>			
<b>UNIVERSITY OF MELBOURNE</b>			
ADAMS, JERRY M.....	STRUCTURE OF IMMUNOGLOBULIN AND OTHER MYELOMA MRNAS.....	2R01 CA12421-04	48,418
ADAMS, JERRY M.....	STRUCTURE OF IMMUNOGLOBULIN AND OTHER MYELOMA MRNAS.....	5R01 CA12421-05	32,945
AUGUSTEYN, ROBERT C.....	THE MECHANISM OF SENILE CATARACT FORMATION.....	5R01 EY01525-02	16,450
MARCHALONIS, JOHN J.....	ORIGINS OF IMMUNE RECOGNITION.....	5R01 AI12565-02	24,490
MARCHALONIS, JOHN J.....	STRUCTURE AND FUNCTION OF CELL SURFACE IMMUNOGLOBULIN.....	9R01 CA20085-04	46,944
MATHEWS, JOHN D.....	BLOOD PRESSURE AND IMMUNOGENETIC FACTORS IN THE YOUNG.....	1R01 HL19984-01	83,563
MITCHELL, GRAHAM F.....	IMMUNE RESPONSES INDUCED IN MICE BY ASCARIS SUUM.....	5R01 AI12677-02	30,826
NOSSAL, GUSTAV J.....	MECHANISMS OF LYMPHOCYTE-ANTIGEN INTERACTIONS.....	5R01 AI03958-16	62,500
WARNER, NOEL L.....	GENETICS OF MURINE PLASMACYTOMAS AND AUTOIMMUNITY.....	5R01 AM11234-09	47,685
WARNER, NOEL L.....	VIRAL AND OTHER ANTIGENS OF MURINE PLASMACYTOMAS.....	5R01 CA15600-03	37,240
ORGANIZATION TOTAL	10 431,061		
<b>PRAHRAN</b>			
<b>BAKER MEDICAL RESEARCH INSTITUTE</b>			
MALONEY, JOHN E.....	RESPIRATORY SYSTEM DEVELOPMENT & SUDDEN INFANT DEATH.....	1R01 HD10135-01	36,863
ORGANIZATION TOTAL	1 36,863		
<b>SYDNEY</b>			
<b>INSTITUTE OF DENTAL RESEARCH</b>			
KNOX, KENNETH W.....	VARIATIONS IN THE SURFACE STRUCTURES OF ORAL BACTERIA.....	5R01 DE04174-02	54,210
ORGANIZATION TOTAL	1 54,210		
<b>UNIVERSITY OF SYDNEY</b>			
WICKEN, ANTHONY J.....	VARIATIONS IN THE SURFACE STRUCTURES OF ORAL BACTERIA.....	5R01 DE04175-02	58,181
ORGANIZATION TOTAL	1 58,181		
STATE TOTAL	14 595,591		
<b>BELGIUM</b>			
<b>BRUSSELS</b>			
<b>CATHOLIC UNIVERSITY OF LOUVAIN</b>			
BAZIN, HERVE.....	PHYSIOLOGY OF THE RAT ICE.....	5R01 AI12840-02	31,115
ORGANIZATION TOTAL	1 31,115		
<b>EUROPEAN ORGANIZATION FOR RESEARCH ON TREATMENT OF CANCER</b>			
TAGNON, HENRI J.....	COOPERATIVE CLINICAL CANCER STUDY (COORDINATING/DATA).....	2R10 CA11488-07	215,740
ORGANIZATION TOTAL	1 215,740		
<b>FREE UNIVERSITY OF BRUSSELS</b>			
CHRISTOPHE, JEAN P.....	MOLECULAR BASIS OF SECRETION IN THE EXOCRINE PANCREAS.....	5R01 AM17010-02	24,000
ORGANIZATION TOTAL	1 24,000		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>BELGIUM—Continued</b>			
<b>LIEGE</b>			
<b>UNIVERSITY OF LIEGE</b>			
GHUYSEN, JEAN-MARIE.....	BACTERIAL TRANSEPTIDASES AND PENICILLIN ACTION.....	1R01 AI13364-01	27,500
ORGANIZATION TOTAL	1 27,500		
<b>LOUVAIN</b>			
<b>CATHOLIC UNIVERSITY OF LOUVAIN</b>			
HERS, HENRI-GERY.....	INBORN ERRORS OF CARBOHYDRATE METABOLISM.....	5R01 AM09235-11	30,000
ORGANIZATION TOTAL	1 30,000		
STATE TOTAL	5 328,355		
<b>CANADA</b>			
<b>CALGARY</b>			
<b>UNIVERSITY OF CALGARY</b>			
TAN, YIN-HWEE.....	HUMAN INTERFERON PRODUCTION FOR ANTITUMOR STUDIES.....	1R01 CA19721-01	52,299
ORGANIZATION TOTAL	1 52,299		
<b>EDMONTON</b>			
<b>UNIVERSITY OF ALBERTA</b>			
BAND, PIERRE R.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	3R10 CA13314-02S2	4,514
BAND, PIERRE R.....	EASTERN COOPERATIVE ONCOLOGY GROUP.....	2R10 CA13314-03	29,303
VON BORSTEL, ROBERT C.....	INDUCTION OF MUTATOR ACTIVITY BY IONIZING RADIATION.....	5R01 GM21294-03	29,400
ORGANIZATION TOTAL	3 63,217		
<b>GUELPH</b>			
<b>UNIVERSITY OF GUELPH</b>			
BROWN, R GLENN.....	TRACE MINERAL METABOLISM IN GENETIC CHONDRODYSPLASIA.....	1R01 AM18758-01	39,891
ORGANIZATION TOTAL	1 39,891		
<b>KINGSTON</b>			
<b>QUEEN'S UNIVERSITY AT KINGSTON</b>			
WYATT, GERARD R.....	BIOCHEMISTRY OF DEVELOPMENT AND REGULATION.....	5R01 HD07951-03	24,463
ORGANIZATION TOTAL	1 24,463		
<b>LONDON</b>			
<b>UNIVERSITY OF WESTERN ONTARIO</b>			
BANTING, DAVID W.....	LONGITUDINAL STUDY OF DENTAL ROOT SURFACE CARIES.....	1R01 DE04465-01	21,805
DALES, SAMUEL.....	ALTERATIONS OF NUCLEOPROTEINS AND MEMBRANES.....	1R01 AI13395-01	91,449
ORGANIZATION TOTAL	2 113,254		
<b>MONTREAL</b>			
<b>MC GILL UNIVERSITY</b>			
LALA, PEYUSH K.....	SPONTANEOUS FUSION BETWEEN TUMOR CELLS AND HOST CELLS.....	5R01 CA17111-02	30,633
LEBLOND, CHARLES P.....	LOCALIZATION OF FOUR PROCOLLAGENS IN DENTAL TISSUES.....	1R01 DE04547-01	38,350
LEWIS, MARTIN G.....	TUMOR-SPECIFIC ANTIGENS IN HUMAN BLADDER CANCER.....	5R26 CA17458-02	42,655
SOLOMON, SAMUEL.....	FORMATION AND METABOLISM OF STEROIDS IN PREGNANCY.....	5R01 HD04365-15	42,318

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>CANADA—Continued</b>			
ORGANIZATION TOTAL	4	153,956	
<b>OTTAWA</b>			
<b>NATIONAL RESEARCH COUNCIL OF CANADA</b>			
SMITH, IAN C.....	SEVENTH CONFERENCE ON MAGNETIC RESONANCE IN BIOLOGY.....	1R13 GM23357-01	5,876
ORGANIZATION TOTAL	1	5,876	
<b>TORONTO</b>			
<b>MENTAL RETARDATION CENTRE</b>			
DALTON, ARTHUR J.....	MEMORY IN DOWN'S SYNDROME AND ALZHEIMER'S DISEASE.....	5R01 HD08893-02	8,277
ORGANIZATION TOTAL	1	8,277	
<b>UNIVERSITY OF TORONTO</b>			
CAMERMAN, NORMAN.....	STEREOCHEMICAL BASIS OF ANTICONVULSANT DRUG ACTIVITY.....	5R01 NS09839-06	15,622
ELLEN, RICHARD P.....	LONGITUDINAL STUDY OF DENTAL ROOT SURFACE CARIES.....	1R01 DE04464-01	51,556
SCHACHTER, HARRY.....	GLYCOPROTEIN-GLYCOLIPID METABOLISM IN SPERMATOGENESIS.....	5R01 HD07889-03	25,153
ORGANIZATION TOTAL	3	92,331	
<b>WELLESLEY HOSPITAL</b>			
GODFREY, CHARLES M.....	EFFICACY OF MANIPULATION IN TREATMENT OF LOW BACK PAIN.....	1R01 NS12900-01	44,635
ORGANIZATION TOTAL	1	44,635	
<b>VANCOUVER</b>			
<b>UNIVERSITY OF BRITISH COLUMBIA</b>			
CANDIDO, E PETER.....	BIOCHEMICAL STUDIES IN DROSOPHILA MELANOGASTER.....	1R01 GM22753-01	35,000
DEBAS, HAILE T.....	NEUROHORMONAL MECHANISMS OF GASTROINTESTINAL FUNCTION.....	5R01 AM18508-02	27,750
DOLPHIN, DAVID H.....	PORPHYRIN IONS AND RADICALS IN METABOLIC PROCESSES.....	5R01 AM17989-02	45,753
SLEMMER, GLENN L.....	CELL BIOLOGY OF MAMMARY GLAND NEOPLASIA.....	1R01 CA18987-01	38,086
WADA, JOHN A.....	CHRONIC FOCAL EPILEPTOGENIC LESION AND DEEP STRUCTURE.....	5R01 NS02812-16	34,241
ORGANIZATION TOTAL	5	180,830	
<b>WINNIPEG</b>			
<b>UNIVERSITY OF MANITOBA</b>			
FRIESEN, HENRY G.....	PLACENTAL & PITUITARY PROTEIN & POLYPEPTIDE HORMONES.....	5R01 HD07843-03	59,952
SEHON, ALEC.....	CELL-MEDIATED IMMUNOLOGIC DESTRUCTION OF TUMOR CELLS.....	3R01 CA13192-03S1	12,625
SEHON, ALEC.....	IMMUNOLOGIC DESTRUCTION OF TUMOR CELLS.....	2R01 CA13192-04	55,990
ORGANIZATION TOTAL	3	128,567	
STATE TOTAL	26	907,596	
<b>CHILE</b>			
<b>SANTIAGO</b>			
<b>UNIVERSITY OF CHILE</b>			
MONCKEBERG, FERNANDO.....	INFANT MALNUTRITION.....	5R22 HD03741-13	29,784
PINTO-HAMUY, TERESA.....	COMPARATIVE STUDIES ON MAMMALIAN NERVOUS SYSTEM.....	5R01 NS12470-02	21,500
ORGANIZATION TOTAL	2	51,284	
STATE TOTAL	2	51,284	



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>COSTA RICA</b>			
<b>SAN JOSE</b>			
<b>UNIVERSITY OF COSTA RICA</b>			
MORERA, PEDRO.....	STUDIES ON ABDOMINAL ANGIOSTRONGYLOSIS.....	5R01 AI11616-03	3,732
ORGANIZATION TOTAL	1 3,732		
STATE TOTAL	1 3,732		
<b>DENMARK</b>			
<b>AARHUS</b>			
<b>UNIVERSITY OF AARHUS</b>			
MAGNUSSEN, STAFFAN M.....	BLOOD COAGULATION PRIMARY STRUCTURE OF PROTHROMBIN.....	5R01 HL16238-03	36,918
ORGANIZATION TOTAL	1 36,918		
<b>COPENHAGEN</b>			
<b>CARLSBERG LABORATORY</b>			
VON WETTSTEIN, DITER H.....	GENETIC CONTROL OF MACROMOLECULAR CELL STRUCTURES.....	5R01 GM22051-02	21,400
ORGANIZATION TOTAL	1 21,400		
<b>UNIVERSITY OF COPENHAGEN</b>			
EBBESEN, PETER.....	CANCER OF OLD SKIN GRAFTS AGING ON YOUNG RECIPIENTS.....	5R01 CA17039-02	21,020
ORGANIZATION TOTAL	1 21,020		
STATE TOTAL	3 79,338		
<b>FINLAND</b>			
<b>HELSINKI</b>			
<b>UNIVERSITY OF HELSINKI</b>			
KONTAINEN, SIRKKA K.....	STIMULATION OF T-CELLS WITH PROTEIN ANTIGENS.....	1R01 AI13145-01	26,000
VAHERI, ANTTI.....	FIBROBLAST SURFACE ANTIGEN LOSS IN TRANSFORMATION.....	5R01 CA17373-02	53,500
ORGANIZATION TOTAL	2 79,500		
<b>TURKU</b>			
<b>UNIVERSITY OF TURKU</b>			
HARTIALA, KAARLO J.....	GASTROINTESTINAL AND PULMONARY METABOLIC FUNCTIONS.....	5R01 AM06018-15	31,700
ORGANIZATION TOTAL	1 31,700		
STATE TOTAL	3 111,200		
<b>FRANCE</b>			
<b>PARIS</b>			
<b>GROUP FOR THE STUDY AND RESEARCH IN CANCER</b>			
ISRAEL, LUCIEN I.....	COOPERATIVE STUDY OF ONCOLOGY.....	1R10 CA19273-01	32,415
ORGANIZATION TOTAL	1 32,415		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>FRANCE—Continued</b>			
<b>PASTEUR INSTITUTE</b>			
JACOB, FRANCOIS .....	STUDIES OF REGULATORY MECHANISMS .....	5R01 CA16355-02	20,000
ORGANIZATION TOTAL	1 20,000		
<b>ST. LOUIS HOSPITAL</b>			
BERNARD, JEAN .....	COOPERATIVE STUDY OF ACUTE LEUKEMIA .....	5R10 CA13239-04	44,100
ORGANIZATION TOTAL	1 44,100		
<b>UNIVERSITY OF PARIS VII</b>			
DAUSSET, JEAN .....	SURFACE LEUCOCYTE ANTIGENS AND SKIN GRAFTS .....	5R01 AI09293-16	22,500
ORGANIZATION TOTAL	1 22,500		
STATE TOTAL	4 119,015		
<b>ICELAND</b>			
<b>REYKJAVIK</b>			
<b>ICELAND CANCER SOCIETY</b>			
BIARNASON, OLAFUR .....	GENEALOGICAL RESOURCE FOR MEDICAL RESEARCH .....	1R01 GM22370-01	67,930
ORGANIZATION TOTAL	1 67,930		
STATE TOTAL	1 67,930		
<b>ISRAEL</b>			
<b>HAIFA</b>			
<b>TECHNION-ISRAEL INSTITUTE OF TECHNOLOGY</b>			
BRANDON, DAVID G .....	EPITAXIAL SANDWICHING OF BIOPOLYMERS .....	1R01 GM22264-01	21,481
GERSHON, DAVID .....	STUDY OF FAULTY PROTEIN MOLECULES IN SENESCENCE .....	5R01 AG00459-03	27,883
ORGANIZATION TOTAL	2 49,364		
<b>JERUSALEM</b>			
<b>HEBREW UNIVERSITY OF JERUSALEM</b>			
BERMAN, ELAINE R .....	STUDIES ON THE PIGMENT EPITHELIUM OF THE RETINA .....	5R01 EY01131-02	23,269
CEDAR, HOWARD .....	TRANSCRIPTION OF CHROMATIN IN VITRO .....	5R01 GM20483-03	42,910
DIKSTEIN, SHABTAY .....	SURVIVAL OF THE CORNEAL ENDOTHELIUM .....	5R01 EY00965-02	25,643
FELDMAN, SHAUL .....	NEURAL-CORTICOSTEROID INTERACTION AND BRAIN FUNCTION .....	5R01 NS11522-03	24,509
GATT, SHIMON .....	METABOLISM OF THE SPHINGOLIPIDS AND C24 FATTY ACIDS .....	2R01 NS02967-16	72,590
SCHRAMM, MICHAEL .....	ENZYME SECRETION AND ITS METABOLIC CONTROL .....	5R01 AM10451-11	54,780
ORGANIZATION TOTAL	6 243,701		
<b>REHOVOTH</b>			
<b>WEIZMANN INSTITUTE OF SCIENCE</b>			
ALONI, YOSEF .....	CONTROL OF GENE EXPRESSION IN TUMOR VIRUSES AND CELLS .....	5R01 CA14995-03	44,100
GIVOL, DAVID .....	CHARACTERIZATION OF SPECIFIC T-CELL FACTORS .....	1R01 AI13200-01	42,000
PATCHORNIK, ABRAHAM .....	NONENZYMATIC MODIFICATIONS AND CLEAVAGES OF PROTEINS .....	5R01 AM05098-14	54,955
SCHECHTER, ISRAEL .....	STRUCTURE AND FUNCTION OF IG GENES AND IG PRECURSORS .....	1R01 CA20817-01	68,400
SELA, MICHAEL .....	SYNTHETIC ANTIGENS .....	5R01 AI11405-04	47,679
SILBERBERG, ALEXANDER .....	MUCUS CLEARANCE IN SECRETORY OTITIS MEDIA .....	5R01 NS10048-05	43,571
SILBERBERG, ALEXANDER .....	MUCUS CLEARANCE IN SECRETORY OTITIS MEDIA .....	5R01 NS10048-06	45,060
YAFFE, DAVID .....	CONTROL OF DIFFERENTIATION IN ESTABLISHED CELL LINES .....	1R01 GM22767-01	40,000

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator		Project title	Grant number	Dollars
<b>ISRAEL—Continued</b>				
ORGANIZATION TOTAL	8	385,765		
<b>TEL AVIV</b>				
<b>TEL AVIV UNIVERSITY</b>				
PICK, EDGAR .....		MECHANISM AND ACTION OF MACROPHAGE (MIF) .....	5R01 AI11194-03	10,776
ORGANIZATION TOTAL	1	10,776		
STATE TOTAL	17	689,606		
<b>ITALY</b>				
<b>MILAN</b>				
<b>MARIO NEGRI INSTITUTE FOR PHARMACOLOGICAL RESEARCH</b>				
GARATTINI, SILVIO .....		TREATMENT OF CANCER DISSEMINATION AND METASTASIS .....	5R01 CA12764-05	56,560
ORGANIZATION TOTAL	1	56,560		
<b>UNIVERSITY OF MILAN</b>				
SCHWARTZ, PETER J. ....		EXPERIMENTAL REPRODUCTION OF LONG QT SYNDROME AND SIDS .....	5R01 HD08796-02	7,550
ORGANIZATION TOTAL	1	7,550		
<b>PISA</b>				
<b>UNIVERSITY OF PISA</b>				
POMPEIANO, OTTAVIO .....		SENSORY MECHANISMS AND MOTOR CONTROL .....	5R01 NS07685-08	15,000
ORGANIZATION TOTAL	1	15,000		
<b>ROME</b>				
<b>UNIVERSITY OF ROME</b>				
MONACO, FABRIZIO .....		CARBOHYDRATES IN THYROGLOBULIN IN THYROID TUMOR .....	5R01 AM16932-03	19,827
ORGANIZATION TOTAL	1	19,827		
STATE TOTAL	4	98,937		
<b>JAMAICA</b>				
<b>MONA</b>				
<b>UNIVERSITY OF THE WEST INDIES</b>				
FINCHAM, ALAN G .....		COMPOSITION OF FETAL DENTAL-ENAMEL PROTEINS .....	5R23 DE03642-03	7,500
ORGANIZATION TOTAL	1	7,500		
STATE TOTAL	1	7,500		
<b>JAPAN</b>				
<b>OSAKA</b>				
<b>KINKI UNIVERSITY</b>				
OKAMOTO, KOZO .....		PATHOGENESIS AND PREVENTION OF HYPERTENSION SEQUELAE .....	5R01 HL17754-02	34,900
ORGANIZATION TOTAL	1	34,900		



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>JAPAN—Continued</b>			
<b>TOKYO</b>			
<b>KITASATO INSTITUTE</b>			
OKADA, HIDECHIKA.....	NONIMMUNOLOGIC COMPLEMENT ACTIVATION BY TUMOR CELL.....	1R01 CA19229-01	40,300
ORGANIZATION TOTAL	1 40,300		
STATE TOTAL	2 75,200		
<b>NETHERLANDS</b>			
<b>LEIDEN</b>			
<b>STATE UNIVERSITY OF LEIDEN</b>			
SOBELS, FREDERIK H.....	INDUCTION OF GENETIC DAMAGE BY CHEMICAL MUTAGENS.....	5R01 ES01027-02	95,947
SOBELS, FREDERIK H.....	INDUCTION OF GENETIC DAMAGE BY CHEMICAL MUTAGENS.....	5R01 ES01027-03	91,869
ORGANIZATION TOTAL	2 187,816		
STATE TOTAL	2 187,816		
<b>NEW ZEALAND</b>			
<b>DUNEDIN</b>			
<b>UNIVERSITY OF OTAGO</b>			
SIMPSON, FREDERIC O.....	STUDY OF GENETIC HYPERTENSION IN RATS.....	5R01 HL10942-08	14,719
ORGANIZATION TOTAL	1 14,719		
<b>PALMERSTON NORTH</b>			
<b>MASSEY UNIVERSITY</b>			
JOLLY, ROBERT D.....	MANNOSIDOSIS—A MODEL FOR LYSOSOMAL STORAGE DISEASES.....	2R01 NS11238-03	39,900
ORGANIZATION TOTAL	1 39,900		
STATE TOTAL	2 54,619		
<b>NORWAY</b>			
<b>BERGEN</b>			
<b>UNIVERSITY OF BERGEN</b>			
SELVIG, KNUT A.....	ROLE OF DENTAL PLAQUE IN PERIODONTAL PATHOLOGY.....	5R01 DE03821-03	19,066
ORGANIZATION TOTAL	1 19,066		
STATE TOTAL	1 19,066		
<b>SPAIN</b>			
<b>MADRID</b>			
<b>AUTONOMOUS UNIVERSITY OF MADRID</b>			
GOSALVEZ, MARIO.....	BIOLOGICAL AND BIOCHEMICAL ANALYSIS OF ROTENONE TUMOR.....	5R01 CA16776-02	24,412
ORGANIZATION TOTAL	1 24,412		

**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>SPAIN—Continued</b>			
STATE TOTAL	1	24,412	
<b>SWEDEN</b>			
<b>GOTHENBURG</b>			
<b>GOTHENBURG UNIVERSITY</b>			
ABRAHAMSSON, SIXTEN.....	MOLECULAR ARRANGEMENT IN COMPLEX LIPIDS.....	5R01 GM11653-16	51,973
LINDHE, JAN T.....	EXPERIMENTAL PERIODONTITIS IN ANIMALS.....	5R01 DE03803-03	36,700
ORGANIZATION TOTAL	2	88,673	
<b>LUND</b>			
<b>UNIVERSITY OF LUND</b>			
FALCK, BENGT O.....	NEW METHODS FOR THE STUDY OF AMINE TRANSMITTERS.....	2R01 NS06701-10	31,210
SIESJO, BO K.....	PATHOPHYSIOLOGY OF HYPOXIC BRAIN DAMAGE.....	5R01 NS07838-08	37,648
SJOGREN, HANS O.....	IMMUNITY TO BOWEL NEOPLASMS IN RATS AND MAN.....	5R26 CA14924-04	77,315
ORGANIZATION TOTAL	3	146,173	
<b>STOCKHOLM</b>			
<b>CAROLINE INSTITUTE</b>			
BLOMBACK, E G.....	STRUCTURE: FIBRINOGEN, FIBRIN FORMATION, THROMBIN ENZYME.....	5R01 HL07379-11	49,001
KLEIN, GEORGE.....	MALIGNANT BEHAVIOR AND CELLULAR ANTIGEN EXPRESSION.....	2R01 CA14054-04	98,000
PERNOW, BENGT B.....	SUBSTANCE P: OCCURRENCE, PHARMACOLOGY AND PHYSIOLOGY.....	1R01 HL18994-01	25,750
ORGANIZATION TOTAL	3	172,751	
<b>UPPSALA</b>			
<b>UNIVERSITY OF UPPSALA</b>			
BARANY, ERNST H.....	COMPARATIVE STUDIES OF GLAUCOMA.....	5R01 EY00231-12	40,760
BILL, ANDERS A.....	STUDIES ON THE NUTRITION OF THE EYE.....	3R01 EY00475-09S1	6,116
BILL, ANDERS A.....	STUDIES ON THE NUTRITION OF THE EYE.....	2R01 EY00475-10	43,584
HAZELBAUER, GERALD L.....	THE MECHANISM OF CHEMORECEPTION IN ESCHERICHIA COLI.....	5R01 AI12858-02	18,575
WIGZELL, HANS L.....	ISOLATION AND USE OF ANTIGEN-BINDING T CELL RECEPTORS.....	1R01 AI13485-01	50,000
ORGANIZATION TOTAL	5	159,035	
STATE TOTAL	13	566,632	
<b>SWITZERLAND</b>			
<b>BASEL</b>			
<b>UNIVERSITY OF BASEL</b>			
SHOWE, MICHAEL K.....	SYNTHESIS AND FUNCTION OF ORGANIZED ELEMENTS IN CELLS.....	1R01 AI13165-01	40,039
ORGANIZATION TOTAL	1	40,039	
<b>GENEVA</b>			
<b>INTERNATIONAL UNION AGAINST CANCER</b>			
DELAFFRESNAYE, JOHN F.....	SUPPORT FOR CANCER STUDY.....	2R01 CA05096-15	87,859
ORGANIZATION TOTAL	1	87,859	
<b>WORLD HEALTH ORGANIZATION</b>			
GARIN, AUGUST M.....	RATIONAL SYNTHESIS OF COMPOUNDS FOR CANCER THERAPY.....	1R13 CA18738-01	29,600

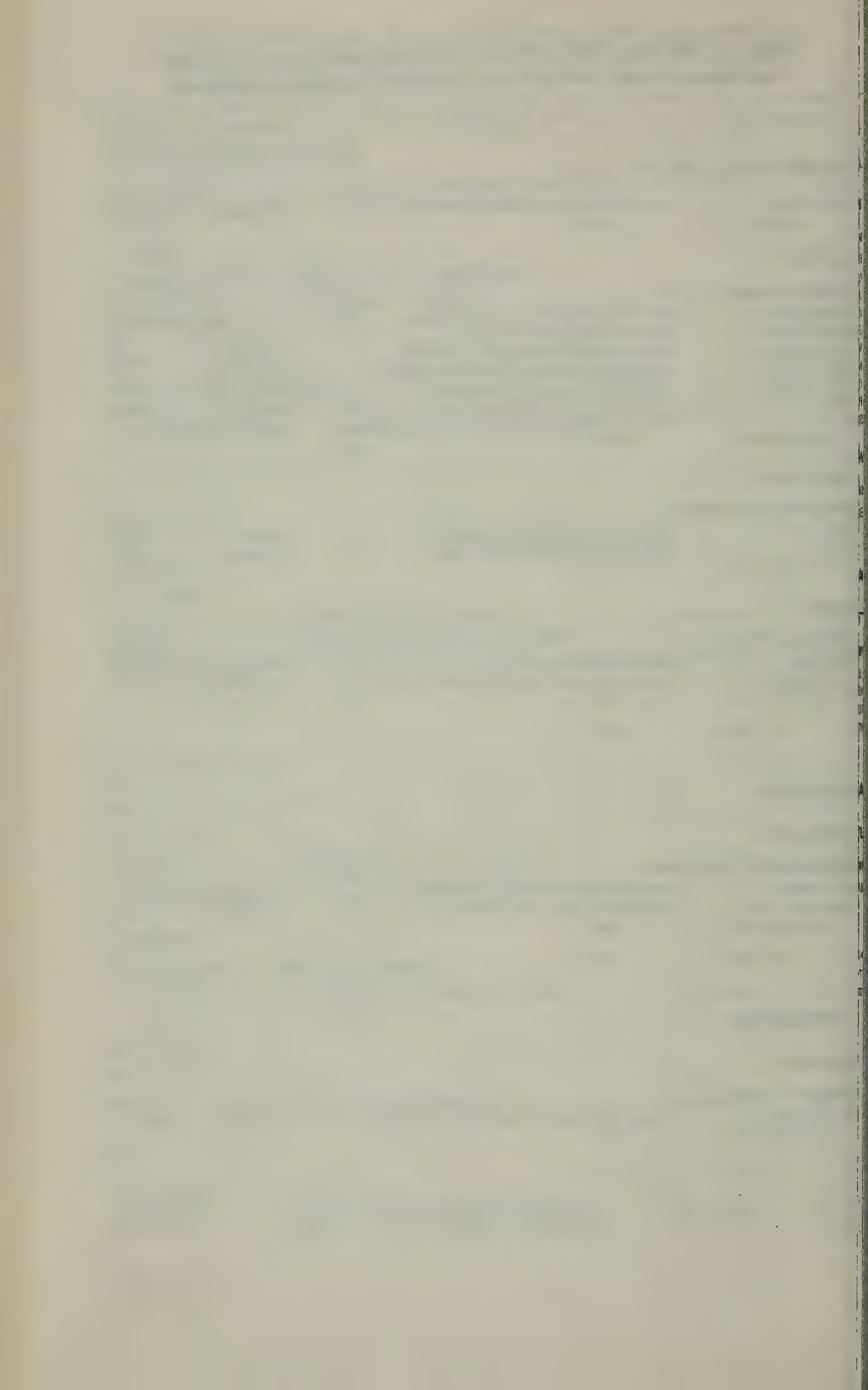
**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>SWITZERLAND—Continued</b>			
TORRIGIANI, GIORGIO.....	ALPHA CHAIN DISEASE AND GASTROINTESTINAL LYMPHOMA.....	1R13 CA18723-01	25,000
ORGANIZATION TOTAL	2 54,600		
<b>LAUSANNE</b>			
<b>WORLD HEALTH ORGANIZATION—INTERNATIONAL REFERENCE CENTRE IMMUNOGLOBULINS</b>			
ROWE, DAVID S.....	PROTECTIVE IMMUNITY IN LEISHMANIASIS.....	1R01 AI13126-01	20,000
ORGANIZATION TOTAL	1 20,000		
<b>VAUD</b>			
<b>EUROPEAN ORGANIZATION FOR CARIES RESEARCH</b>			
HARDWICK, J L.....	COMMUNICATION IN DENTAL CARIES RESEARCH.....	1R01 DE04438-01	9,110
ORGANIZATION TOTAL	1 9,110		
STATE TOTAL	6 211,608		
<b>THAILAND</b>			
<b>BANGKOK</b>			
<b>MAHIDOL UNIVERSITY</b>			
BHAMARAPRAVATI, NATTH.....	PATHOGENESIS OF DENGUE SHOCK SYNDROME.....	5R22 AI12358-02	9,590
LAMB, ADRIAN J.....	METABOLISM AND FUNCTION OF CAROTENOIDS AND VITAMIN A.....	5R01 AM11367-09	29,000
VALYASEVI, AREE.....	STUDIES OF BLADDER STONE DISEASE IN THAILAND.....	2R22 AM13066-07	52,200
ORGANIZATION TOTAL	3 90,790		
STATE TOTAL	3 90,790		
<b>UNITED KINGDOM</b>			
<b>BRISTOL</b>			
<b>UNIVERSITY OF BRISTOL</b>			
PURVES, MICHAEL J.....	THE CONTROL OF BREATHING BEFORE AND AFTER BIRTH.....	1R01 HD09457-01	75,177
SALMON, PAUL R.....	LAPAROSCOPY IN THE DIAGNOSIS OF PANCREATIC CANCER.....	1R26 CA19167-01	19,075
ORGANIZATION TOTAL	2 94,252		
<b>CAMBRIDGE</b>			
<b>AGRICULTURAL RESEARCH COUNCIL—INSTITUTE OF ANIMAL PHYSIOLOGY</b>			
HOWARD, JONATHAN C.....	GENETICS OF RESPONSE TO HISTOCOMPATIBILITY ANTIGENS.....	1R01 AI13162-01	59,947
ORGANIZATION TOTAL	1 59,947		
<b>EDINBURGH</b>			
<b>UNIVERSITY OF EDINBURGH</b>			
WILLETTS NEIL S.....	GENETIC ANALYSIS OF PSEUDOMONAS R FACTORS.....	1R01 AI12899-01	14,763
ORGANIZATION TOTAL	1 14,763		
<b>LEEDS</b>			
<b>UNIVERSITY OF LEEDS</b>			
COOPER, EDWARD H.....	CHEMOTHERAPY OF TRANSPLANTABLE MURINE COLON TUMORS.....	1R26 CA18126-01	38,113
COOPER, EDWARD H.....	CHEMOTHERAPY OF TRANSPLANTABLE MURINE COLON TUMORS.....	5R26 CA18126-02	44,436



**Table 2.—NIH Research Grants, by Area, Organization, and Principal Investigator, Fiscal Year 1976 and Transition Quarter—Continued**

Principal investigator	Project title	Grant number	Dollars
<b>UNITED KINGDOM—Continued</b>			
LINDEN, RONALD J.....	INTERNATIONAL SYMPOSIUM: CARDIAC RECEPTORS 1976.....	1R13 HL19643-01	20,349
ORGANIZATION TOTAL	3 102,898		
<b>LONDON</b>			
<b>UNIVERSITY OF LONDON</b>			
ALEXANDER, PETER.....	EFFECT OF TUMOR GROWTH ON THE IMMUNE RESPONSE.....	5R01 CA15000-03	24,150
BACHELARD, HERMAN S.....	CATIONS AND BRAIN GLYCOLYTIC ENZYMES.....	3R01 NS07918-06S1	3,275
CARTER, NICHOLAS D.....	GENETIC ISOLATES WITH HIGH INCIDENCE OF LYMPHOMA.....	1R01 CA19821-01	33,200
LANDAUER, WALTER.....	NEUROMUSCULAR TRANSMISSION IN ABNORMAL DEVELOPMENT.....	1R01 HD10028-01	12,400
PAULING, PETER J.....	THE CONFORMATIONS OF CHOLINERGIC MOLECULES.....	5R01 NS12021-02	25,769
WALL, PATRICK D.....	INEFFECTIVE SYNAPSES RESPIRATION.....	5R01 NS07710-08	14,125
WILLS, E D.....	EFFECTS OF RADIATION AND HYPERTHERMIA ON TUMOR LYSOSOME.....	1R01 CA18286-01	17,000
ORGANIZATION TOTAL	7 129,919		
<b>MANCHESTER</b>			
<b>VICTORIA UNIVERSITY OF MANCHESTER</b>			
KUMAR, SHANT.....	TUMOR-SPECIFIC IMMUNITY IN BLADDER CANCER.....	5R26 CA15553-03	28,542
LECK, IAN.....	EPIDEMIOLOGICAL STUDY OF CHILDREN'S TUMORS.....	5R01 CA14992-03	12,875
ORGANIZATION TOTAL	2 41,417		
<b>OXFORD</b>			
<b>UNIVERSITY OF OXFORD</b>			
KREBS, HANS A.....	REGULATION OF METABOLIC PROCESSES.....	2R01 AM11748-09	35,500
VAN HEYNINGEN, RUTH E.....	CATARACT IN RATS DUE TO DIETARY DEFICIT OF TRYPTOPHAN.....	5R01 EY01548-02	24,012
ORGANIZATION TOTAL	2 59,512		
STATE TOTAL	18 502,708		
<b>URUGUAY</b>			
<b>MONTEVIDEO</b>			
<b>BIOLOGICAL SCIENCES RESEARCH INSTITUTE</b>			
DRETS, MAXIMO E.....	QUANTITATIVE BAND MAPPING OF HUMAN CHROMOSOMES.....	5R01 GM22037-02	2,500
TRUJILLO-CENOZ, OMAR.....	NEURON DIFFERENTIATION AND SPECIFICATION IN THE EYE.....	1R01 EY01674-01	9,860
ORGANIZATION TOTAL	2 12,360		
STATE TOTAL	2 12,360		
<b>YUGOSLAVIA</b>			
<b>BELGRADE</b>			
<b>UNIVERSITY OF BELGRADE</b>			
LUKATELA, GEORGIJE L.....	CROSS-LANGUAGE STUDIES OF PROCESSES BASIC TO READING.....	5R01 HD08495-02	37,775
ORGANIZATION TOTAL	1 37,775		
STATE TOTAL	1 37,775		



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter**

Awardee	Project title	Grant number
<b>ALABAMA</b>		
<b>BIRMINGHAM</b>		
<b>UNIVERSITY OF ALABAMA IN BIRMINGHAM      ZIP CODE 35294</b>		
BRIGGS, DICK D, JR.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70060-05
KLEINSTEIN, ROBERT N.....	EYE DISORDERS IN AN URBAN POPULATION.....	1K07 EY00026-01A1
LAMON, EDDIE W.....	VIRAL TUMOR IMMUNOLOGY.....	5K04 CA00059-02
LAWTON, ALEXANDER R, III.....	DIFFERENTIATION OF B-LYMPHOCYTES.....	5K04 AI70780-03
LEBOWITZ, JACOB.....	CIRCULAR DNA-IMPLICATIONS FOR CANCER & DRUG RESISTANCE.....	5K04 CA00141-04
NAVAR, LUIS G.....	INTRINSIC REGULATION OF RENAL HEMODYNAMICS.....	7K04 HL00143-02
NAVAR, LUIS G.....	INTRINSIC REGULATION OF RENAL HEMODYNAMICS.....	5K04 HL00143-03
OYSTER, CLYDE W.....	NEURAL INTERACTIONS IN THE RETINA AND VISUAL PATHWAYS.....	5K04 EY00033-02
PRETLOW, THOMAS G.....	RELATIONSHIPS BETWEEN CANCER, STROMAL, AND NORMAL CELLS.....	5K04 CA70584-04
SCHNEYER, LEON H.....	SALIVARY GLAND ELECTROLYTES.....	5K06 DE03341-13

#### **MOBILE**

<b>UNIVERSITY OF SOUTH ALABAMA      ZIP CODE 36688</b>		
BASS, JOHN B, JR.....	PULMONARY ACADEMIC AWARD.....	5K07 HL00125-02

#### **ARIZONA**

##### **TUCSON**

<b>UNIVERSITY OF ARIZONA      ZIP CODE 85721</b>		
CUSANOVICH, MICHAEL A.....	BIOLOGICAL ELECTRON TRANSPORT/VISUAL PROCESS.....	5K04 EY00013-02
MENDELSON, NEIL H.....	GENETIC REGULATION OF THE BACILLUS SUBTILIS CELL CYCLE.....	5K04 GM70555-04
RUSSELL, DIANE H.....	POLYAMINES IN GROWTH-NORMAL AND NEOPLASTIC.....	5K04 CA00072-02
WITTE, MARLYS H.....	LYMPH FORMATION-LYMPH ABSORPTION-THE FORMULA OF EDEMA.....	5K04 HL19605-05

#### **ARKANSAS**

##### **LITTLE ROCK**

<b>UNIVERSITY OF ARKANSAS MEDICAL SCIENCES CAMPUS      ZIP CODE 72201</b>		
BURNS, E ROBERT.....	CHRONOBIOLOGICAL STUDY OF CELL GROWTH.....	5K04 CA70594-03

NOTE 1.: For information as to how this table was prepared, see Technical Note, p. ix.

NOTE 2.: Grants are listed according to the State or country and city of the component part of the organization professionally responsible for the work (see Technical Note, p. ix). If an organization appears in more than one geographic location or requires a clarifying comment, appropriate annotations have been made in the Appendix.



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>CALIFORNIA</b>		
<b>DAVIS</b>		
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT DAVIS		ZIP CODE 95616
CROSS, CARROLL E.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70820-03
TROY, FREDERIC A.....	MEMBRANE-BOUND ENZYME INTERACTIONS AND GROWTH CONTROL.....	5K04 CA00095-02
<b>IRVINE</b>		
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT IRVINE		ZIP CODE 92664
CUNNINGHAM, DENNIS D.....	INITIATION OF FIBROBLAST DIVISION BY GLUCOCORTICOIDS.....	1K04 CA00171-01
HAMKALO, BARBARA A.....	ULTRASTRUCTURAL ASPECTS OF GENE REGULATION.....	1K04 GM00233-01
HATFIELD, G WESLEY.....	INTERRELATIONSHIPS BETWEEN ENZYME MATURATION & GENE EXP.....	5K04 GM70530-04
HATFIELD, G WESLEY.....	INTERRELATIONSHIPS BETWEEN ENZYME MATURATION & GENE EXP.....	5K04 GM70530-05
LYNCH, GARY S.....	AXONAL GROWTH AND BRAIN PLASTICITY.....	5K04 NS00043-02
SUTHERLAND, BETSY M.....	PHOTOREACTIVATING ENZYMES.....	5K04 CA00009-02
SUTHERLAND, JOHN C.....	PHYSICAL STUDIES OF THE PHOTOREACTIVATING ENZYME.....	1K04 CA00208-01
WATSON, JAMES D.....	MECHANISM REGULATING INDUCTION OF ANTIBODY SYNTHESIS.....	1K04 AI00182-01
WHITE, STEPHEN H.....	MODEL STUDIES OF MYELIN STABILITY.....	1K04 NS00146-01
<b>LA JOLLA</b>		
SALK INSTITUTE FOR BIOLOGICAL STUDIES		ZIP CODE 92037
HEINEMANN, STEPHEN F.....	INTERACTION OF CLONED LINES OF NERVE AND MUSCLE.....	5K04 NS70139-05
KIDOKORO, YOSHIAKI.....	MUSCLE DIFFERENTIATION AND SYNAPSE FORMATION IN VITRO.....	5K04 NS00102-02
SCRIPPS CLINIC AND RESEARCH FOUNDATION		ZIP CODE 92037
CHISARI, FRANCIS V.....	IMMUNOBIOLOGY AND PATHOGENESIS OF HEPATITIS B.....	1K04 AI00174-01
GOLDSTEIN, DAVID A.....	THE MECHANISM OF POLYOMA DNA REPLICATION.....	5K04 CA32425-04
GOLDSTEIN, DAVID A.....	THE MECHANISM OF POLYOMA DNA REPLICATION.....	5K04 CA32425-05
GRIFFIN, JOHN H.....	BIOCHEMISTRY AND REGULATION OF HUMAN FACTOR XII.....	1K04 HL00192-01
HOCH, SALLIE O.....	MOLECULAR INTERACTIONS IN DIFFERENTIATION.....	5K04 CA00004-02
KOLB, WILLIAM P.....	CANCER CELL DESTRUCTION BY LYMPHOTOXIN OR COMPLEMENT.....	5K04 CA70841-03
MORGAN, WILLIAM T.....	MECHANISMS OF SERUM PROTEIN FUNCTIONS.....	5K04 AM00110-02
MORRISON, DAVID C.....	BIOCHEMICAL PARAMETERS OF LPS-MEDIATED DIC AND SHOCK.....	5K04 AI00081-02
RUSSELL, STEPHEN W.....	CAUSES OF SPONTANEOUS TUMOR REGRESSION.....	1K04 CA00228-01
TAVASSOLI, MEHDI.....	STRUCTURAL BASIS OF HEMOPOIESIS.....	5K04 AM70551-03
WEIGLE, WILLIAM O.....	ANTIBODY PRODUCTION AND IMMUNOLOGICAL TOLERANCE.....	5K06 GM06936-15
WHITELEY, JOHN M.....	THE BIOCHEMISTRY OF PTERIDINE AND FOLATE COENZYMES.....	5K04 CA00106-02
ZIMMERMAN, THEODORE S.....	INTERACTION OF COAGULATION AND COMPLEMENT SYSTEMS.....	5K04 HL70242-05
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO		ZIP CODE 92037
ASHRAF, MUHAMMAD.....	ISCHEMIC HEART ULTRASTRUCTURE: MODIFICATION BY THERAPY.....	1K04 HL00190-01
BRODY, STUART.....	DEVELOPMENTAL GENETICS OF NEUROSPORA.....	5K04 GM70761-03
FOSTER, MARGARET C.....	BIOPHYSICAL STUDIES OF VISUAL RECEPTORS.....	5K07 EY00027-02
FREER, STEPHAN T.....	STRUCTURE AND FUNCTION OF BIOLOGICAL MACROMOLECULES.....	5K04 GM70140-05
GILL, GORDON N.....	REGULATORY MECHANISMS OF ACTH AND CYCLIC AMP ACTION.....	5K04 AM70215-05
HEMMINGSSEN, EDVARD A.....	STUDIES ON GAS BUBBLE FORMATION IN VITRO AND IN VIVO.....	5K04 HL50263-05
HIGGINS, CHARLES B.....	EFFECTS OF CONTRAST MEDIA & HEART FAILURE ON CHEMOREFLEX.....	1K04 HL00201-01
KAGNOFF, MARTIN F.....	INDUCTION OF INTESTINAL ANTIGEN-SENSITIVE CELLS.....	5K04 AM00021-02
KYTE, JACK E.....	MOLECULAR STRUCTURE OF THE QUABAIN SENSITIVE ATPASE.....	1K04 HL00206-01
MENDELSON, JOHN.....	CONTROL OF IMMUNE AND MALIGNANT LYMPHOCYTE GROWTH.....	5K04 CA70891-03
MILLER, ARNOLD L.....	I-CELL DISEASE AND MENTAL RETARDATION.....	5K04 NS00050-02
NESBITT, MURIEL N.....	CELLULAR MAPPING OF BEHAVIOR TRAITS IN MICE.....	5K04 GM00138-02
NINNEMANN, JOHN L.....	IMMUNE RESPONSE DURING THERMAL INJURY.....	1K04 GM00264-01
OKAMURA, MELVIN Y.....	ELECTRON TRANSPORT IN BACTERIAL MEMBRANES.....	5K04 GM00106-02
PINON, RAMON, JR.....	GENETIC RECOMBINATION IN YEAST.....	5K04 GM37772-06
ROBB, JAMES A.....	MOLECULAR MECHANISMS IN VIRAL (SV40) CARCINOGENESIS.....	5K04 CA70567-04
ROSENFELD, MICHAEL G.....	MECHANISM OF HORMONAL AND CAMP REGULATORY ACTION.....	5K04 AM00078-02
SAIER, MILTON H, JR.....	REGULATION OF MEMBRANE FUNCTION IN C-6 RAT GLIOMA CELLS.....	5K04 CA00138-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>CALIFORNIA—Continued</b>		
SILVERSTON, ALLEN I.....	NEURAL GEOMETRY AND INTEGRATION IN GANGLIA.....	5K04 NS70490-04
SHIBEL-CORRIQUE, ELAINE M.....	PULMONARY ACADEMIC AWARD.....	1K07 HL00126-01A1
TAYLOR, SUSAN S.....	STRUCTURE AND AMINO ACID SEQUENCE OF PROTEIN KINASE.....	5K04 GM70244-05
VALENTINE, RAYMOND C.....	TRANSDUCTIONAL ANALYSIS-NITROGENASE GENES OF KLEBSIELLA.....	5K04 AI16595-05
WAGNER, PETER D.....	VENTILATION AND BLOOD FLOW IN CARDIOPULMONARY DISEASE.....	5K04 HL00111-02
<b>LOMA LINDA</b>		
LOMA LINDA UNIVERSITY ZIP CODE 92354		
HODGKIN, JOHN E.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70350-05
QUILLIGAN, JAMES J, JR.....	VIRUSES, VACCINATION AND ANTIVIRAL IMMUNITY.....	5K06 AI20517-14
<b>LOS ANGELES</b>		
CALIFORNIA STATE UNIVERSITY AND COLLEGES—CALIFORNIA STATE UNIVERSITY, LOS ANGELES ZIP CODE 90032		
BROWN, COSTELLO L.....	NEGATIVE IONIZATION OF BIOORGANIC MOLECULES.....	5K04 GM00131-02
ONAK, THOMAS P.....	BIOLOGICALLY ACTIVE DERIVATIVES OF BORON COMPOUNDS.....	5K04 CA28028-04
CHILDREN'S HOSPITAL OF LOS ANGELES ZIP CODE 90027		
BENEDICT, WILLIAM F.....	CYTOMETRICS OF HUMAN CANCER AND CHEMICAL TRANSFORMATION.....	5K04 CA70996-03
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES ZIP CODE 90024		
BARNARD, R JAMES.....	EFFECT OF ACUTE AND CHRONIC EXERCISE ON THE HEART.....	5K04 HL00052-02
BRINKMAN, CHARLES R, III.....	MECHANISM & CLINICAL APPLICATION OF FETAL HEART CONTROL.....	5K04 HL70237-05
CLARK, WILLIAM R.....	MECHANISMS OF GENERATION OF CYTOTOXIC EFFECTOR T CELLS.....	5K04 AI00009-02
EISENBERG, DAVID S.....	STRUCTURE AND ACTION OF MULTISUBUNIT ENZYMES.....	5K04 GM70505-05
GOLUB, SIDNEY H.....	IN VITRO LYMPHOCYTE SENSITIZATION TO TUMOR ANTIGENS.....	5K04 CA70970-03
HOMSHER, EARL.....	ENERGY LIBERATION AND TRANSDUCTION IN CONTRACTING MUSCLE.....	5K04 AM70792-03
MEAD, JAMES F.....	METABOLISM OF BRAIN FATTY ACIDS.....	5K06 GM19177-14
MEYERS, ROBERTA L.....	IMMUNOLOGY AND IMMUNOPATHOLOGY OF CORNEAL DISEASE.....	5K04 EY00014-02
MUSTAFA, MOHAMMAD G.....	PULMONARY OXIDANT INJURY AND METABOLIC ADAPTATION.....	1K04 HL00301-01
PESKOFF, ARTHUR.....	MATH DESCRIPTION OF ELECTRICAL PROPERTIES OF CELLS.....	1K04 GM00222-01
SEGER, ROBERT C.....	IMMUNE RESPONSE OF CHILDREN TO NEUROBLASTOMA.....	5K04 CA00069-02
SHOME, BASUDEV.....	STRUCTURE OF HUMAN PITUITARY FSH AND LH.....	5K04 HD70636-03
SIMMONS, NORMAN S.....	ORAL MEDICINE AND BIOPHYSICS.....	5K06 DE01094-13
WISNIESKI, BERNADINE J.....	PHYSICAL STRUCTURE OF ANIMAL CELL MEMBRANES.....	1K04 GM00228-01
UNIVERSITY OF SOUTHERN CALIFORNIA ZIP CODE 90007		
BAU, ROBERT.....	THE MOLECULAR BASIS OF ANTITUMOR PLATINUM DRUG ACTIVITY.....	5K04 CA00015-02
BEIERLE, JOHN W.....	CELL EXUDATES: EFFECTS ON ORAL AND OTHER TUMORS.....	5K04 CA70675-03
MEISELMAN, HERBERT J.....	HEMORHEOLOGY: MICROCIRCULATORY & PATHOLOGIC STUDIES.....	5K04 HL70569-04
MOOSER, GREGORY.....	TASTE RECEPTOR INTERACTIONS.....	5K04 DE70488-05
SOBIN, SIDNEY S.....	STUDIES OF THE MICROCIRCULATION.....	4K06 HL07064-16
<b>PALO ALTO</b>		
PALO ALTO MEDICAL RESEARCH FOUNDATION ZIP CODE 94301		
KRAHENBUHL, JAMES L.....	CELLULAR IMMUNITY TO OPPORTUNISTIC PATHOGENS AND TUMORS.....	5K04 AI70931-03
<b>PASADENA</b>		
CALIFORNIA INSTITUTE OF TECHNOLOGY ZIP CODE 91125		
ALLMAN, JOHN M.....	FUNCTIONAL ORGANIZATION OF VISUAL CORTEX.....	1K04 NS00178-01
HOOD, LEROY E.....	GENETIC BASIS OF ANTIBODY DIVERSITY AND EVOLUTION.....	5K04 AI20388-05
STROUD, ROBERT M.....	STRUCTURE AND FUNCTION OF PROTEINS AT MOLECULAR LEVEL.....	5K04 GM70469-05

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>CALIFORNIA—Continued</b>		
<b>RIVERSIDE</b>		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT RIVERSIDE ZIP CODE 92502</b>		
FURLONG, CLEMENT E.....	BACTERIAL AND HUMAN MEMBRANE TRANSPORT SYSTEMS.....	5K04 GM00001-02
<b>SAN FRANCISCO</b>		
<b>CALIFORNIA STATE UNIVERSITY AND COLLEGES—SAN FRANCISCO STATE UNIVERSITY ZIP CODE 94132</b>		
WALKER, FRANCES A.....	HEME & HEMOPROTEIN MODELS—SPECTRA & REDOX STUDIES.....	1K04 GM00227-01
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO ZIP CODE 94143</b>		
ADLER, RONALD D.....	BILIARY LIPID SECRETION AND LIPOPROTEIN METABOLISM.....	5K08 AM00132-02
BISSELL, DWIGHT M. JR.....	REGULATION OF HEPATIC HEMOPROTEIN METABOLISM.....	5K04 GM00149-02
BOUSHEY, HOMER A. JR.....	PULMONARY ACADEMIC AWARD.....	5K07 HL00130-02
DALLMAN, MARY F.....	BRAIN-PITUITARY-ADRENAL INTERRELATIONSHIPS.....	5K04 AM00072-02
FIELDS, HOWARD L.....	NEUROPHYSIOLOGY OF PAIN.....	5K04 NS70777-03
GOLDBERG, HENRY I.....	RADIOGRAPHIC EVALUATION OF MALDIGESTION.....	5K04 GM70582-04
HAMILTON, ROBERT L. JR.....	SUBCELLULAR MECHANISMS OF PLASMA LIPOPROTEIN METABOLISM.....	3K04 HL24187-0551
HOFF, JULIAN T.....	NEUROSURGERY.....	5K07 NS11051-05
KAUFMAN, LEON.....	SOLID STATE DEVICES, POSITION SENSITIVE CHAMBERS.....	5K04 GM70598-04
KENYON, GEORGE L.....	PROBING THE ACTIVE SITE OF CREATINE KINASE.....	5K04 AM00014-02
KOLLMAN, PETER A.....	INTERMOLECULAR INTERACTIONS IN CHEMISTRY AND BIOLOGY.....	5K04 GM70718-03
KOROBKIN, MELVYN T.....	UROGRAPHIC AND HEMODYNAMIC CHANGES IN RENAL ISCHEMIA.....	5K04 GM00055-02
KUN, ERNEST.....	BIOCHEMICAL REGULATORY MECHANISMS.....	5K06 GM04615-13
KUNTZ, IRWIN D. JR.....	MACROMOLECULAR STRUCTURE AND HYDRATION.....	5K04 GM00042-02
LAVAIL, MATTHEW M.....	CELLULAR MECHANISMS OF INHERITED RETINAL DEGENERATION.....	7K04 EY70871-02
LEVY, JAY A.....	ROLE OF C-TYPE VIRUS IN AUTOIMMUNE DISEASE AND CANCER.....	5K04 CA70990-03
MARTON, LAURENCE J.....	DIAGNOSIS AND EVALUATION OF BRAIN TUMOR CHEMOTHERAPY.....	5K04 CA00112-02
MENTZER, WILLIAM C. JR.....	RBC METABOLISM IN SICKLEMLIA AND OTHER CHILDHOOD ANEMIAS.....	5K04 HL00086-02
PICTET, RAYMOND L.....	MECHANISM OF REGULATION OF GROWTH & CYTODIFFERENTIATION.....	5K04 HD70682-04
REID, IAN A.....	SYMPATHETIC REGULATION OF RENIN SECRETION.....	5K04 HL00104-02
SANTI, DANIEL V.....	STUDIES OF TMP SYNTHETASE & THE GLUCOCORTICOID RECEPTOR.....	5K04 CA00123-02
SCHINDLER, ROBERT A.....	PROJECTION ORGANIZATION TO/FROM SUPERIOR OLIVARY COMPLEX.....	1K07 NS00175-01
SEVERINGHAUS, JOHN W.....	RESPIRATORY CHEMORECEPTOR SENSITIVITY CONTROL MECHANISMS.....	5K06 HL19412-14
SHAMES, DAVID M.....	KINETIC ANALYSIS OF CLINICAL NUC. MED. TRACER DATA.....	5K04 GM70304-05
SHOHET, STEPHEN B.....	MEMBRANE LIPID METABOLISM.....	5K04 AM37237-05
SIEGEL, ROBERT C.....	PATHOGENESIS OF CONNECTIVE TISSUE DISEASE.....	5K04 AM00114-02
SMITH, ALLAN L.....	STUDY OF CIRCULATORY RESPONSE TO ANESTHETICS.....	5K04 GM70770-03
TYBERG, JOHN V.....	AN ANALYSIS OF ISCHEMIC DYSFUNCTION.....	5K04 HL00016-02
VARMUS, HAROLD E.....	BIOCHEMISTRY OF TRANSFORMATION BY ROUS SARCOMA VIRUS.....	5K04 CA70193-05
WEINKAM, ROBERT J.....	CHEMICAL IONIZATION MASS SPECTROMETRY—BIOMEDICAL.....	5K04 GM00007-02
WHEELER, KENNETH T. JR.....	EFFECT OF RADIATION AND DRUGS ON DNA OF NORMAL BRAIN.....	5K04 NS70739-03
WILLIAMS, MARY C.....	LUNG SURFACTANT: SYNTHESIS, SECRETION, AND STRUCTURE.....	1K04 HL00221-01
<b>UNIVERSITY OF THE PACIFIC ZIP CODE 94115</b>		
MURPHY, ALEXANDER J.....	THE ACTIVE SITE STRUCTURES OF CONTRACTILE PROTEINS.....	5K04 AM28709-05
<b>SANTA BARBARA</b>		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA BARBARA ZIP CODE 93106</b>		
GERIG, JOHN T.....	STRUCTURAL STUDIES OF PROTEINS IN VARIOUS PHASES.....	5K04 GM70373-04
<b>SANTA CRUZ</b>		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA CRUZ ZIP CODE 95060</b>		
MC MURRY, JOHN E.....	TOTAL SYNTHESIS OF CARDIAC AGLYCONES.....	1K04 CA00163-01



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>CALIFORNIA—Continued</b>		
<b>STANFORD</b>		
<b>STANFORD UNIVERSITY</b> <b>ZIP CODE 94305</b>		
BUCHANAN, BRUCE G.....	THEORY FORMATION BY COMPUTER.....	5K04 GM29662-05
CHOW, KAO L.....	NEUROBIOLOGY OF LEARNING AND VISION.....	5K06 NS18512-14
CHOW, KAO L.....	NEUROBIOLOGY OF LEARNING AND VISION.....	5K06 NS18512-15
COOPER, ALLEN D.....	REGULATION OF HEPATIC CHOLESTEROL SYNTHESIS.....	5K08 AM00137-02
FRIEDBERG, ERROL C.....	DNA REPAIR MECHANISMS AND DNA-PROTEIN INTERACTION.....	5K04 CA71005-03
GREGORY, PETER B.....	ACADEMIC CAREER DEVELOPMENT AWARD IN DIGESTIVE DISEASES.....	5K07 AM70318-05
HELLER, HORACE C.....	CENTRAL NERVOUS SYSTEM REGULATION OF BODY TEMPERATURE.....	5K04 NS00041-02
LUETSCHER, JOHN A.....	SECRETION AND METABOLISM OF ADRENAL HORMONES.....	5K06 AM14176-14
LUETSCHER, JOHN A.....	SECRETION AND METABOLISM OF ADRENAL HORMONES.....	5K06 AM14176-15
PEDLEY, TIMOTHY A.....	EPILEPTOGENESIS AND NEURAL PLASTICITY.....	5K07 NS11075-02
PERKINS, DAVID D.....	GENETICS OF NEUROSPORA.....	5K06 GM04899-12
PERKINS, DAVID D.....	GENETICS OF NEUROSPORA.....	5K06 GM04899-13
POPP, RICHARD L.....	ECHOCARDIOGRAPHIC STUDY OF CARDIAC DISEASE.....	5K04 HL70439-05
ROBINSON, WILLIAM S.....	BIOCHEMICAL EVENTS AFTER RNA TUMOR VIRUS INFECTION.....	5K04 CA23487-05
SAWITT, BARBARA.....	PHYSICAL AND NEURAL BASIS OF SENSATION AND PERCEPTION.....	5K04 EY00004-02
SIMONI, ROBERT D.....	STRUCTURE-FUNCTION RELATIONSHIPS IN MEMBRANES.....	1K04 GM00225-01
THEODORE, JAMES.....	PULMONARY ACADEMIC AWARD.....	5K07 HL00129-02
<b>TORRANCE</b>		
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL</b> <b>ZIP CODE 90509</b>		
CHOPRA,INDER J.....	THYROID GLAND PHYSIOLOGY IN HEALTH AND DISEASE.....	5K04 AM70225-05
EDWARDS, JOHN E.....	NEMATOGENOUS CANDIDA ENDOPHTHALMITIS.....	5K07 EY00030-02
EFFROS, RICHARD M.....	NEW INDICATOR DILUTION TECHNIQUES.....	5K04 HL00132-04
SPEERLING, MARK A.....	ENDOCRINE REGULATION OF CARBOHYDRATE METABOLISM.....	5K04 HD00029-02
SWERDLOFF, RONALD S.....	CONTROL OF FSH IN THE MALE PUBERTAL CONTROL MECHANISMS.....	5K04 HD70436-05
<b>COLORADO</b>		
<b>BOULDER</b>		
<b>UNIVERSITY OF COLORADO</b> <b>ZIP CODE 80302</b>		
CARLSON, LAWRENCE E.....	MULTI-MODE CONTROL OF UPPER-LIMB PROSTHESES.....	1K04 AM00166-01
CARUTHERS, MARVIN H.....	BIOCHEMICAL AND BIOLOGICAL STUDIES OF DNA CONTROL REGION.....	5K04 GM00076-02
GOLD, LAWRENCE M.....	GENE EXPRESSION: BIOCHEMISTRY/GENETICS OF TWO CISTRONS.....	5K04 GM00103-02
HIRSH, DAVID I.....	DEVELOPMENTAL BIOLOGY OF A SMALL NEMATODE.....	5K04 GM70465-04
HIRSH, DAVID I.....	DEVELOPMENTAL BIOLOGY OF A SMALL NEMATODE.....	5K04 GM70465-05
JONES, RICHARD E.....	OVARIAN FOLLICULAR GROWTH ENDOCRINE CONTROL IN REPTILES.....	5K04 HD70165-03
<b>DENVER</b>		
<b>NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER</b> <b>ZIP CODE 80206</b>		
CHILLER, JACQUES M.....	CELLULAR BASIS OF IMMUNOREGULATORY MECHANISMS.....	1K04 AI00133-01
PACE, NORMAN R.....	SYNTHESIS AND REGULATION OF RIBOSOMAL RNA.....	1K04 GM00189-01
<b>UNIVERSITY OF COLORADO MEDICAL CENTER</b> <b>ZIP CODE 80220</b>		
FINK, LOUIS M.....	TRANSFORMATION OF CELLS BY CHEMICAL CARCINOGENS.....	5K04 CA00050-02
HAIN, WILLIAM E.....	GENETIC EXPRESSION IN NEURONS AND GLIA OF THE BRAIN.....	5K04 NS20056-05
KERR, SYLVIA J.....	CONTROL OF TRNA METHYLASES IN NORMAL AND TUMOR TISSUE.....	5K04 CA28074-05
KIMBERLING, WILLIAM J.....	GENE LOCALIZATION IN MAN.....	5K04 HD70659-04
MOORHEAD, JOHN W.....	INTERACTION OF T-CELLS IN IMMUNITY AND TOLERANCE.....	1K04 AI00125-01
MURPHY, ROBERT C.....	APPLICATION OF MASS SPECTROMETRY TO BIOMEDICAL RESEARCH.....	1K04 HD00128-01
NEVILLE, MARGARET C.....	ROLE OF INTRACELLULAR COMPARTMENTS IN NUTRIENT TRANSPORT.....	5K04 AM00038-02
PATTERSON, DAVID.....	GENETIC BIOCHEMICAL REGULATION IN MAMMALIAN CELLS.....	5K04 AM00044-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>COLORADO—Continued</b>		
PERKINS, JOHN P.....	ROLE OF CYCLIC AMP IN NORMAL AND MALIGNANT BRAIN CELLS.....	5K04 CA70466-05
SEEDS, NICHOLAS W.....	BIOCHEMICAL DIFFERENTIATION OF NERVE CELL CULTURES.....	5K04 GM40170-05
WENGER, DAVID A.....	BETA-GALACTOSIDASE DEFICIENCY NEURODEGENERATIVE DISEASE.....	1K04 NS00108-01
ZWILLICH, CLIFFORD W.....	VENTILATORY CONTROL AND RESPIRATORY FAILURE.....	1K04 HL00225-01
<b>FORT COLLINS</b>		
COLORADO STATE UNIVERSITY      ZIP CODE 80521		
DUPONT, JACQUELINE.....	DIETARY FAT, CHOLESTEROL SYNTHESIS AND METABOLISM.....	5K04 HL70517-05
HILL, GEORGE C.....	DNA AND CYTOCHROMES IN KINETOPLASTIDAE.....	5K04 A170813-03
<b>CONNECTICUT</b>		
<b>FARMINGTON</b>		
UNIVERSITY OF CONNECTICUT HEALTH CENTER      ZIP CODE 06032		
CATALANOTTO, FRANK A.....	SENSORY PHYSIOLOGY IN HEALTH & DISEASE.....	5K04 DE00012-02
HOCK, JANET M.....	MICROCIRCULATORY FUNCTION IN EARLY GINGIVAL INFLAMMATION.....	7K04 DE00035-01
KOLAKOWSKI, DONALD L.....	GENETICS OF THE HUMAN DENTITION IN SEVERAL POPULATIONS.....	5K04 DE00015-02
PAPPANO, ACHILLES J.....	PHARMACOLOGY OF DEVELOPING CARDIAC TISSUES.....	5K04 HL00027-02
YOSHIDA, TAKESHI.....	LYMPHOKINE MEDIATORS OF CELLULAR IMMUNITY IN VIVO.....	5K04 A100082-02
<b>MIDDLETOWN</b>		
WESLEYAN UNIVERSITY      ZIP CODE 06457		
WOLFE, JASON S.....	THE DIVISION/DIFFERENTIATION DECISION-FOCUS ON G1.....	5K04 GM00140-02
<b>NEW HAVEN</b>		
YALE UNIVERSITY      ZIP CODE 06520		
ASKENASE, PHILIP W.....	ALLERGIC DISEASES ACADEMIC AWARD.....	5K07 A170829-03
CANELLAKIS, EVANGELO S.....	MECHANISMS OF BIOSYNTHESIS OF NUCLEIC ACIDS.....	5K06 GM03070-13
CRONAN, JOHN E, JR.....	ROLE OF LIPIDS IN MEMBRANE FUNCTION.....	5K04 GM70411-05
DOBBINS, JOHN W.....	LITHIUM AND INTESTINAL ABSORPTION AND SECRETION.....	1K08 AM00232-01
FELIG, PHILIP.....	AMINO ACIDS & HORMONES IN GLUCONEOGENESIS & OBESITY.....	5K04 AM70219-05
GREGORY, DOUGLAS S.....	CONTROL OF AQUEOUS HUMOR FORMATION.....	5K07 EY00037-02
HIGGINS, JOAN A.....	BIOGENETIC STUDY OF CELLULAR MEMBRANES.....	5K04 GM70729-03
HOWARD-FLANDERS, PAUL.....	MECHANISMS FOR THE PERSERVATION OF THE GENOME.....	5K06 AM09397-14
KELSEY, JENNIFER L.....	EPIDEMIOLOGY OF DISEASES OF MUSCULOSKELETAL SYSTEM.....	5K04 NS70502-05
MANUELIDIS, LAURA M.....	BIOCHEMISTRY/ULTRASTRUCTURE: CNS TUMORS, DEVELOPING CELL.....	5K04 NS00101-02
MITCHELL, MALCOLM S.....	CHEMOTHERAPY AND TUMOR IMMUNOLOGY.....	5K04 CA70982-03
NEUFELD, ARTHUR H.....	REGULATION OF AQUEOUS HUMOR DYNAMICS.....	1K04 EY00029-01
PAPERMASTER, DAVID S.....	MEMBRANE BIOSYNTHESIS IN RETINA.....	5K04 EY00017-02
PATTON, CURTIS L.....	HOST INTERACTION WITH PARASITE MEMBRANE TRANSPORT.....	5K04 A170512-05
VARGA, JANOS M.....	SPECIFICITY AND EXPRESSION OF CELL SURFACE RECEPTORS.....	1K04 A100154-01
WADE, JAMES B.....	PHYSIOLOGY OF EPITHELIA AND MEMBRANE STRUCTURE.....	1K04 AM00217-01
ZIEGLER, FREDERICK E.....	NATURAL PRODUCTS & DEVELOPMENT OF SYNTHETIC METHODOLOGY.....	5K04 GM70577-03
ZIEGLER, FREDERICK E.....	NATURAL PRODUCTS & DEVELOPMENT OF SYNTHETIC METHODOLOGY.....	5K04 GM70577-04
<b>STORRS</b>		
UNIVERSITY OF CONNECTICUT      ZIP CODE 06268		
ROTH, JAY S.....	STUDIES ON NUCLEASES AND DNA METABOLISM.....	5K06 CA18379-15
ZEAMAN, DAVID.....	RETARDATE DISCRIMINATION LEARNING AND ATTENTION.....	5K06 HD20325-14

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>DIST OF COL</b>		
<b>WASHINGTON</b>		
<b>GEORGE WASHINGTON UNIVERSITY ZIP CODE 20006</b>		
JACKSON, MICHAEL J.....	INTESTINAL ACID-BASE TRANSPORT.....	5K04 AM70199-05
<b>GEORGETOWN UNIVERSITY ZIP CODE 20007</b>		
ANDREWS, J ROBERT.....	CORRELATIVE RADIOBIOLOGY.....	5K10 LM00006-02
GILLIS, RICHARD A.....	NEUROPHARMACOLOGY OF THE CARDIOVASCULAR SYSTEM.....	5K04 HL70678-04
<b>HOWARD UNIVERSITY ZIP CODE 20001</b>		
STORM, CARLYLE B.....	MECHANISM OF ACTION OF PHENYLALANINE HYDROXYLASE.....	5K04 GM70586-04
<b>FLORIDA</b>		
<b>GAINESVILLE</b>		
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA ZIP CODE 32611</b>		
ACHEY, PHILLIP M.....	IONIZING RADIATION ACTION ON DNA.....	5K04 CA70267-04
ACHEY, PHILLIP M.....	IONIZING RADIATION ACTION ON DNA.....	5K04 CA70267-05
BIRDSELL, DALE C.....	PATHOGENICITY OF BACTERIAL TEICHOIC ACIDS.....	1K04 DE00030-01
CATON, DONALD.....	HORMONAL CONTROL OF UTERINE BLOOD FLOW IN PREGNANCY.....	5K04 HD70552-04
DUCKWORTH, DONNA H.....	BACTERIOPHAGE AND CELL SURFACE PHENOMENON.....	1K04 AI00054-01
GASSET, ANTONIO R.....	TERATOGENIC & TOXIC EFFECTS OF OPHTHALMIC DRUGS.....	5K04 EY00002-02
MC CAREY, BERNARD E.....	CORNEAL ENDOTHELIAL MORPHOLOGY AND FUNCTION.....	1K07 EY00031-01A1
ROBERTS, ROBERT M.....	POLYSACCHARIDE METABOLISM IN CYSTIC FIBROSIS FIBROBLASTS.....	5K04 AM70389-04
ROBERTS, ROBERT M.....	POLYSACCHARIDE METABOLISM IN CYSTIC FIBROSIS FIBROBLASTS.....	5K04 AM70389-05
TSIBRIS, JOHN C.....	STRUCTURE, FUNCTION, AND REGULATION OF HYDROXYLASES.....	5K04 GM42386-08
WYNNE, JAMES W.....	PULMONARY ACADEMIC AWARD.....	1K07 HL00122-01A1
<b>MIAMI</b>		
<b>UNIVERSITY OF MIAMI ZIP CODE 33152</b>		
BOLOOKI, HOOSHANG.....	CARDIAC PERFORMANCE BEFORE AND AFTER HEART SURGERY.....	5K04 HL70670-04
BRADY, AL H.....	STRUCTURE OF ENZYME COMPLEXES IN NEOPLASMS.....	5K04 CA00100-02
BREW, KEITH.....	CHEMICAL STUDIES OF ENZYMES AND PROTEINS.....	5K04 GM00147-02
CASWELL, ANTHONY H.....	FLUORESCENT CHELATE PROBES APPLIED TO CARDIAC CELLS.....	5K04 HL70151-05
DOWNEY, KATHLEEN M.....	RNA-DEPENDENT RNA POLYMERASE OF ERYTHROID CELLS.....	5K04 HL00031-02
PENNEYS, NEAL S.....	CUTANEOUS INHIBITORS OF PROSTAGLANDIN SYNTHESIS.....	1K04 AM00203-01
<b>TALLAHASSEE</b>		
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY ZIP CODE 32306</b>		
BERKLEY, KAREN J.....	NEUROANATOMY OF SOMATIC PATHWAYS AFFERENT TO THALAMUS.....	5K04 NS00118-02
MARZLUFF, WILLIAM F, JR.....	SPECIFIC GENE EXPRESSION IN ANIMAL CELLS IN VITRO.....	1K04 CA00178-01
REEVES, ROBERT H.....	THE BIOLOGICAL SIGNIFICANCE OF tRNA MODIFICATIONS.....	5K04 GM00049-02
RILL, RANDOLPH L.....	THE STRUCTURE OF CHROMATIN AND MODEL NUCLEOPROTEINS.....	5K04 GM00087-02
<b>GEORGIA</b>		
<b>ATHENS</b>		
<b>UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA ZIP CODE 30601</b>		
COLE, RONALD S.....	REPAIR OF DNA CONTAINING INTERSTRAND CROSS-LINKS.....	5K04 CA00046-02
DERVARTANIAN, DANIEL V.....	EPR STUDIES OF RESPIRATORY COMPONENTS.....	5K04 GM70010-05
KUSHNER, SIDNEY R.....	BIOCHEMISTRY OF GENETIC RECOMBINATION AND DNA REPAIR.....	5K04 GM00048-02



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>GEORGIA—Continued</b>		
PROENZA, LUIS M.....	ELECTROPHYSIOLOGY OF RETINAL CELLS IN VISION.....	1K04 EY00042-01
TRAVIS, JAMES.....	PROTEOLYTIC ENZYMES OF THE BLOOD AND PANCREAS.....	5K04 HL70264-05
VAPNEK, DANIEL.....	MOLECULAR STUDIES ON R-PLASMIDS IN E. COLI.....	5K04 GM00090-02
<b>ATLANTA</b>		
<b>ATLANTA UNIVERSITY      ZIP CODE 30314</b>		
LUMB, JUDITH R.....	A THEORETICAL AND BIOCHEMICAL STUDY OF LEUKEMIA.....	5K04 CA00067-02
<b>EMORY UNIVERSITY      ZIP CODE 30322</b>		
BRESSACK, MICHAEL A.....	MEDICAL SCHOOL PULMONARY FACULTY TRAINING AWARD.....	1K08 HL00313-01
COLLINS, DELWOOD C.....	BIOSYNTHESIS AND METABOLISM OF ESTROGEN CONJUGATES.....	5K04 AM70381-04
COLLINS, DELWOOD C.....	BIOSYNTHESIS AND METABOLISM OF ESTROGEN CONJUGATES.....	5K04 AM70381-05
ELSAS, LOUIS J, II.....	GENETIC CONTROL OF MEMBRANE TRANSPORT AND METABOLISM.....	5K04 HD35615-04
GROSSMAN, GILBERT D.....	PULMONARY ACADEMIC AWARD.....	5K07 HL18207-05
HERSEY, STEPHEN J.....	ACID SECRETION BY GASTRIC MUCOSA.....	5K04 AM29899-05
KUO, JYH-FA.....	HORMONAL CONTROL OF FAT CELLS AND CARDIAC FUNCTION.....	5K04 GM50165-06
SCOTT, JUNE R.....	LYSOGENY IN BACTERIOPHAGE P1.....	5K04 CA70385-04
SCOTT, JUNE R.....	LYSOGENY IN BACTERIOPHAGE P1.....	5K04 CA70385-05
SMITH, P DENNIS.....	RECOMBINATION PROFICIENCY IN DROSOPHILA MELANOGASTER.....	5K04 GM70758-03
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA INSTITUTE OF TECHNOLOGY      ZIP CODE 30332</b>		
YU, NAI-TENG.....	NEW METHODS FOR BIOMEDICAL RESEARCH.....	1K04 EY00073-01
<b>AUGUSTA</b>		
<b>UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA      ZIP CODE 30902</b>		
CUTRONEO, KENNETH R.....	ANTI-INFLAMMATORY STEROIDS AND COLLAGEN SYNTHESIS.....	5K04 AM00120-02
OKABE, TORU.....	KINETICS OF AMALGAMATION.....	1K04 DE00039-01
SPEIR, WILLIAM A, JR.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70057-03
<b>HAWAII</b>		
<b>HONOLULU</b>		
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA      ZIP CODE 96822</b>		
BRYANT, GILLIAN D.....	BIOCHEMISTRY AND PHYSIOLOGY OF RELAXIN AND PROLACTIN.....	5K04 HD70516-05
HALLENBORG, CARL P.....	MEDICAL SCHOOL PULMONARY TRAINING AWARD.....	1K08 HL00312-01
MORISHIGE, WALTER K.....	HORMONAL REGULATION OF LUNG FUNCTION.....	1K04 HL00216-01
<b>IDAHO</b>		
<b>MOSCOW</b>		
<b>UNIVERSITY OF IDAHO      ZIP CODE 83843</b>		
WILLETT, JAMES D.....	HORMONES & HORMONAL SYSTEMS IN NEMATODES.....	3K04 AG00011-01S1
WILLETT, JAMES D.....	HORMONES & HORMONAL SYSTEMS IN NEMATODES.....	5K04 AG00011-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>ILLINOIS</b>		
<b>CHICAGO</b>		
<b>AMERICAN DENTAL ASSOCIATION</b>	<b>ZIP CODE 60611</b>	
LAZDA, VELTA A.....	ROLE OF TRANSFER FACTOR IN DELAYED HYPERSENSITIVITY.....	5K04 DE70123-05
STEFFEK, ANTHONY J.....	EXPERIMENTAL PRODUCTION OF CLEFT LIP AND PALATE.....	5K04 DE70138-05
<b>ILLINOIS INSTITUTE OF TECHNOLOGY</b>	<b>ZIP CODE 60616</b>	
ROTH, ROBERT M.....	GENETIC CONTROL OF REPLICATION DURING MEIOSIS.....	5K04 GM70274-04
ROTH, ROBERT M.....	GENETIC CONTROL OF REPLICATION DURING MEIOSIS.....	5K04 GM70274-05
<b>MICHAEL REESE HOSPITAL AND MEDICAL CENTER</b>	<b>ZIP CODE 60616</b>	
DIAMOND, RICHARD D.....	CELLULAR IMMUNITY IN OPPORTUNISTIC MYCOSES.....	5K04 AI00055-02
SCHNEIDER, ARTHUR B.....	HORMONE STRUCTURE & SECRETION: NORMAL GLANDS & TUMORS.....	5K04 AM00103-02
<b>NORTHWESTERN UNIVERSITY</b>	<b>ZIP CODE 60611</b>	
ANDERSON, BYRON E.....	STUDY OF RHEUMATOID ARTHRITIS: GLYCOPROTEIN ANTIGENS.....	5K04 AM70787-03
CARHART, RAYMOND T.....	STUDY OF NORMAL AND PATHOLOGICAL AUDITORY PHENOMENA.....	5K06 NS16224-13
HINKLEY, ROBERT E, JR.....	VOLATILE ANESTHETICS ON NERVE CELL STRUCTURE & FUNCTION.....	1K04 GM00173-01
SLADE, HUTTON D.....	STREPTOCOCCI-STRUCTURE AND BIOCHEMICAL ACTIVITY.....	5K06 GM16284-14
SLADE, HUTTON D.....	STREPTOCOCCI-STRUCTURE AND BIOCHEMICAL ACTIVITY.....	5K06 GM16284-15
STERN, PAULA H.....	ASPECTS OF THE PHARMACOLOGY OF BONE.....	5K04 AM70210-05
TEN EICK, ROBERT E.....	ELECTROPHYSIOLOGICAL BASIS OF HUMAN DYSRHYTHMIAS.....	5K04 HL00033-02
ZELLER, E ALBERT.....	ENZYMES INVOLVED IN AMINO ACID AND AMINE METABOLISM.....	5K06 GM14220-14
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER</b>	<b>ZIP CODE 60612</b>	
GARLAND, JOHN T.....	HORMONAL CONTROL OF GROWTH AND DEVELOPMENT.....	5K04 HD70501-05
GOTTLIEB, GERALD L.....	EXPERIMENTAL INVESTIGATION OF HUMAN MOTOR MECHANISMS.....	1K04 NS00196-01
SCHAUF, CHARLES L.....	KINETIC STUDIES OF MYXICOLA AXONS/DRUGS FOR M.S. THERAPY.....	5K04 NS00004-02
<b>UNIVERSITY OF CHICAGO</b>	<b>ZIP CODE 60637</b>	
AGARWAL, KAN L.....	NUCLEIC ACID-PROTEIN INTERACTIONS.....	1K04 GM00224-01
ARNSDORF, MORTON F.....	ELECTROPHARMACOLOGY OF ANTIARRHYTHMIC DRUGS.....	1K04 HL00196-01
BOYER, JAMES L.....	ACADEMIC CAREER DEVELOPMENT AWARD IN DIGESTIVE DISEASES.....	5K07 AM70218-03
BROOKS, HAROLD L.....	MYOCARDIAL RESPONSES FOLLOWING ACUTE INFARCTION.....	5K04 HL70131-05
DAWSON, GLYN.....	METABOLISM OF GLYCOLIPIDS AND GLYCOPROTEINS.....	5K04 NS00029-02
ERNEST, J TERRY.....	PATHOGENESIS OF GLAUCOMATOUS OPTIC NERVE DISEASE.....	5K04 EY70633-04
FRIED, JOSEF.....	STEROIDS, PROSTAGLANDINS, AND CARCINOGENIC HYDROCARBONS.....	5K06 AM21846-13
GEPPERT, EUGENE F.....	PULMONARY DISEASES.....	1K08 HL00252-01
GUNN, ROBERT B.....	MOLECULAR MECHANISMS OF ION TRANSPORT IN HUMAN RBC.....	1K04 HL00208-01
HOPPER, JOHN E.....	GENETIC STUDIES OF IMMUNOGLOBULIN SYNTHESIS.....	5K04 AI70137-05
HORWITZ, DAVID L.....	RESIDUAL BETA-CELL FUNCTION IN DIABETES MELLITUS.....	1K04 AM00181-01
HUNTER, ROBERT L.....	IMMUNOPATHOLOGY OF HUMAN AND ANIMAL CANCER.....	5K04 CA00032-02
KANE, EILEEN S.....	CENTRAL AUDITORY SYSTEM CONNECTIONS IN MAMMALS.....	5K04 NS00008-02
KOHLER, KARL H.....	MYELOMA, ANTIBODIES AND RECEPTORS IN IMMUNE RESPONSE.....	5K04 AI70559-04
POKORNY, JOEL M.....	AN ANALYSIS OF NORMAL AND DEFECTIVE COLOR VISION.....	5K04 EY70652-02
ROSENFELD, ROBERT L.....	CIRCULATING DETERMINANTS OF ANDROGEN ACTION.....	5K04 HD70152-05
ROTHMAN-DENES, LUCIA B.....	NOVEL TRANSCRIBING ACTIVITIES IN M4-INFECTED E. COLI.....	5K04 AI00078-02
SCHNEIDER, JOHN F.....	CLINICAL APPLICATION OF STABLE ISOTOPE TRACERS.....	5K04 AM00133-02
SHAPIRO, JAMES A.....	PSEUDOMONAS ALKANE METABOLISM; C. GLUTAMICUM GENETICS.....	1K04 AI00118-01
SLATIN, MONTGOMERY W.....	POPULATION RESPONSE TO SPATIAL AND TEMPORAL VARIATIONS.....	5K04 GM00118-02
SPARGO, BENJAMIN H.....	STUDIES OF ULTRASTRUCTURAL RENAL CHANGES.....	5K06 HL04418-13
SPEAR, PATRICIA G.....	MEMBRANE PROTEINS SPECIFIED BY HERPES VIRUSES.....	5K04 CA00035-02
TAGER, HOWARD S.....	BIOSYNTHESIS AND SECRETION OF PEPTIDE HORMONES.....	1K04 AM00145-01
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE</b>	<b>ZIP CODE 60680</b>	
OSCAI, LAWRENCE B.....	EXERCISE AND LIPID METABOLISM.....	1K04 AM00216-01
SCHULTZ, ALBERT B.....	BIOCHEMICAL STUDIES OF IDIOPATHIC SCOLIOSIS.....	5K04 AM00029-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>ILLINOIS—Continued</b>		
UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER ZIP CODE 60612		
BELL, CLARA G.....	FOREIGN RNA FOR ANTIBODY SYNTHESIS BY LYMPHOID CELLS.....	5K04 AI70235-03
FRIEDENSON, BERNARD A.....	IGG ANTIBODIES WITH THE SAME H OR L CHAIN.....	1K04 AI00147-01
<b>DE KALB</b>		
NORTHERN ILLINOIS UNIVERSITY ZIP CODE 60115		
ERMAN, JAMES E.....	ELECTRON TRANSFER AND HEME PROTEIN REACTIVITY.....	1K04 GM00249-01
HAMPEL, ARNOLD E.....	LOW MOLECULAR WEIGHT RNAS OF CHO TISSUE CULTURE CELLS.....	5K04 GM70424-04
HAMPEL, ARNOLD E.....	LOW MOLECULAR WEIGHT RNAS OF CHO TISSUE CULTURE CELLS.....	5K04 GM70424-05
<b>EVANSTON</b>		
NORTHWESTERN UNIVERSITY ZIP CODE 60201		
DUMAS, LAWRENCE B.....	ROLE OF HOST-CELL PROTEINS IN VIRUS DNA REPLICATION.....	5K04 AI70632-03
HOFFMAN, BRIAN M.....	COBALT RECONSTITUTED MYO- AND HEMOGLOBINS, CYTOCHROMES.....	5K04 GM70433-04
HOFFMAN, BRIAN M.....	COBALT RECONSTITUTED MYO- AND HEMOGLOBINS, CYTOCHROMES.....	5K04 GM70433-05
KERTESZ, ANDREW E.....	INVESTIGATION OF HUMAN FUSIONAL RESPONSE.....	5K04 EY70887-02
LEWIS, JACK L.....	MECHANICAL PROPERTIES OF BONE AND IMPLANT DESIGN.....	5K04 AM00081-02
LOACH, PAUL A.....	PHOTORECEPTOR STRUCTURE OF PHOTOSYNTHETIC MEMBRANES.....	5K04 GM70133-05
LORAND, LASZLO.....	BLOOD AND MUSCLE CHEMISTRY.....	5K06 HL03512-14
WIGHTMAN, FREDERIC L.....	PITCH PERCEPTION.....	5K07 NS11072-02
WU, TAI T.....	STRUCTURES OF THE VARIABLE REGIONS OF ANTIBODIES.....	5K04 AI70497-03
<b>MAYWOOD</b>		
LOYOLA UNIVERSITY MEDICAL CENTER ZIP CODE 60153		
STODOLSKY, MARVIN.....	BACTERIAL GENE ACQUISITION BY PROPHAGE P1.....	5K04 GM00113-02
<b>URBANA</b>		
UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN ZIP CODE 61801		
BROWN, ANN L.....	MEMORY FOR STORIES IN CHILDREN.....	1K04 HD00111-01
EBREY, THOMAS G.....	MECHANISM OF VISUAL EXCITATION.....	5K04 EY00025-02
GENNIS, ROBERT B.....	LIPID-REQUIRING MEMBRANE ENZYMES.....	5K04 HL00040-02
GLASER, MICHAEL.....	ROLE OF PHOSPHOLIPIDS IN MEMBRANES AND CELL GROWTH.....	1K04 GM00193-01
GUMPORT, RICHARD I.....	FUNCTION AND MECHANISM OF DNA LIGASE.....	5K04 GM70520-04
GUMPORT, RICHARD I.....	FUNCTION AND MECHANISM OF DNA LIGASE.....	5K04 GM70520-05
KONISKY, JORDAN.....	MECHANISM OF ACTION OF I-COLICINS ON ESCHERICHIA COLI.....	5K04 AI00049-02
ORDAL, GEORGE W.....	CHEMOTAXIS AND PHOTOTAXIS IN BACTERIA.....	1K04 GM00160-01
SHERWOOD, ORRIN D.....	RELAXIN: STRUCTURAL AND PHYSIOLOGICAL STUDIES.....	1K04 HD00019-01
STORM, DANIEL R.....	FUNCTIONAL ASPECTS OF BACTERIAL & MAMMALIAN MEMBRANES.....	1K04 AI00120-01
UHLENBECK, OLKE C.....	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACID.....	5K04 GM70498-04
UHLENBECK, OLKE C.....	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACID.....	5K04 GM70498-05
WEBER, MICHAEL J.....	EARLY CELL-SURFACE CHANGES IN VIRAL ONCOGENESIS.....	5K04 CA00092-02
<b>INDIANA</b>		
<b>BLOOMINGTON</b>		
INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT BLOOMINGTON ZIP CODE 47401		
BLUMENTHAL, THOMAS.....	QBETA REPLICASE & PROTEIN SYNTHESIS ELONGATION FACTORS.....	5K04 GM00016-02
ELIZONDO, REYNALDO S.....	THERMOREGULATION IN THE RHESUS MONKEY.....	5K04 AM00061-02
MAHLER, HENRY R.....	RESPIRATORY ENZYMES—STRUCTURE, FUNCTION, BIOSYNTHESIS.....	5K06 GM05060-15
RAFF, RUDOLF A.....	REGULATION OF PROTEIN SYNTHESIS IN EARLY DEVELOPMENT.....	5K04 HD00047-02
RICHARDSON, JOHN P.....	TRANSCRIPTION OF RNA ON CYCLIC DNA TEMPLATES.....	5K04 GM70422-05



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>INDIANA—Continued</b>		
<b>INDIANAPOLIS</b>		
INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS ZIP CODE 46202		
CHEN, TSU TEH.....	BIOMECHANISMS AND CHEMOTHERAPY OF CNS NEOPLASMS.....	5K04 CA50315-05
<b>NOTRE DAME</b>		
UNIVERSITY OF NOTRE DAME ZIP CODE 46556		
CASTELLINO, FRANCIS J.....	PLASMINOGEN AND PLASMIN: STRUCTURE AND FUNCTION.....	5K04 HL70717-02
CASTELLINO, FRANCIS J.....	PLASMINOGEN AND PLASMIN: STRUCTURE AND FUNCTION.....	5K04 HL70717-03
MARTINEZ-CARRION, MARINO.....	PROBES OF STRUCTURE AND MECHANISMS OF HEART ENZYMES.....	5K04 GM70190-04
MARTINEZ-CARRION, MARINO.....	PROBES OF STRUCTURE AND MECHANISMS OF HEART ENZYMES.....	5K04 GM70190-05
<b>WEST LAFAYETTE</b>		
PURDUE UNIVERSITY ZIP CODE 47907		
CRANE, FREDERICK L.....	ORGANIZATION AND FUNCTION OF SUBCELLULAR PARTICLES.....	5K06 GM21839-12
CRANE, FREDERICK L.....	ORGANIZATION AND FUNCTION OF SUBCELLULAR PARTICLES.....	5K06 GM21839-13
DILLEY, RICHARD A.....	ENERGY TRANSDUCTION IN CHLOROPLAST MEMBRANES.....	5K04 GM19404-05
DIXON, JACK E.....	THYROTROPIN RELEASING HORMONE BIOSYNTHESIS; DEGRADATION.....	1K04 AM00218-01
HARTL, DANIEL L.....	EVOLUTION OF NEW GENES, DYNAMICS OF GENE SUBSTITUTION.....	5K04 GM00023-02
KEENAN, THOMAS W.....	MEMBRANE CHANGES ACCOMPANYING MAMMARY TUMORIGENESIS.....	5K04 GM70596-04
MARKLEY, JOHN L.....	THE USE OF NMR TO SOLVE PROBLEMS IN PROTEIN CHEMISTRY.....	3K04 HL00061-01S1
MARKLEY, JOHN L.....	THE USE OF NMR TO SOLVE PROBLEMS IN PROTEIN CHEMISTRY.....	5K04 HL00061-02
PINTO, LAWRENCE H.....	PHOTORECEPTOR SIGNAL GENERATION.....	5K04 EY00009-02
WINFREE, ARTHUR T.....	PRINCIPLES OF TEMPORAL ORGANIZATION.....	5K04 GM70660-04
<b>IOWA</b>		
<b>IOWA CITY</b>		
UNIVERSITY OF IOWA ZIP CODE 52242		
ARNONE, ARTHUR.....	X-RAY STUDIES OF HEMOGLOBIN AND REGULATORY ENZYMES.....	5K04 AM00099-02
AUTOR, ANNE P.....	STUDIES ON MECHANISM OF OXYGEN AND FREE RADICAL TOXICITY.....	5K04 HD00068-02
BARON, JEFFREY.....	MECHANISMS AND CONTROL OF MAMMALIAN STERIOGENESIS.....	5K04 AM00091-02
HALMI, NICHOLAS S.....	INVESTIGATION OF THE THYROID AND PITUITARY.....	5K06 AM13576-15
HEGMANN, JOSEPH P.....	BEHAVIOR, GENETICS, AND PHYSIOLOGICAL FUNCTION.....	5K04 NS70099-05
HEISTAD, DONALD D.....	STUDIES ON CARDIOVASCULAR EFFECTS OF HYPOXEMIA.....	5K04 HL00041-02
HERMSMEYER, R KENT.....	MEMBRANE ELECTRICAL PROPERTIES OF VASCULAR MUSCLE.....	5K04 HL00073-02
HILLMAN, DEAN E.....	QUANTITATIVE MORPHOLOGY/CENTRAL NERVOUS SYSTEM CIRCUIT.....	5K04 NS70277-05
HOAK, JOHN C.....	EFFECT OF LIPIDS ON BLOOD PLATELETS AND ENDOTHELIUM.....	5K03 HL19370-10
NEWLON, CAROL S.....	YEAST DNA REPLICATION.....	1K04 GM00265-01
PETITH, M MICHAEL.....	ROLE OF CECUM AND COLON IN CALCIUM HOMEOSTASIS.....	1K08 AM00242-01
PITKIN, ROY M.....	ACADEMIC CAREER DEVELOPMENT AWARD IN NUTRITION.....	5K07 AM70694-04
RHODES, MITCHELL L.....	PULMONARY ACADEMIC AWARD.....	3K07 HL70825-02S1
RHODES, MITCHELL L.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70825-03
YOUNOSZAJ, M KABIR.....	ACADEMIC CAREER DEVELOPMENT AWARD IN DIGESTIVE DISEASES.....	5K07 AM70211-05
<b>KANSAS</b>		
<b>KANSAS CITY</b>		
UNIVERSITY OF KANSAS ZIP CODE 66103		
BELMONT, JOHN M.....	CHILDREN'S INFORMATION-PROCESSING STRATEGY DECISIONS.....	5K04 HD00026-02
HURWITZ, ARYEH.....	GASTROINTESTINAL FUNCTION AND DRUG ABSORPTION.....	5K04 GM70250-05

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>KANSAS—Continued</b>		
LIU, CHIEN .....	PATHOGENETIC STUDY & DIAGNOSIS OF INFECTIOUS DISEASES.....	5K06 AI01826-14
PAZDERNIK, THOMAS L.....	PHARMACOLOGICAL MANIPULATION OF HEMO/IMMUNOPOIESIS.....	5K04 CA00006-02
PINGLETON, WILLIAM W.....	SUPPORT FOR IMPROVEMENT OF PULMONARY DISEASE CURRICULUM.....	5K07 HL70073-03
WOOD, JACKIE D.....	FUNCTION OF ENTERIC NEURONS.....	5K04 AM70726-03
<b>LAWRENCE</b>		
UNIVERSITY OF KANSAS      ZIP CODE 66045		
BELL, WILLIAM J.....	BEHAVIORAL MECHANISMS IN CHEMO-ORIENTATION.....	1K04 NS00190-01
CRAWFORD, MICHAEL H.....	DENTITION GENETIC ANALYSES OF ESKIMOS AND MEXICANS.....	1K04 DE00028-01
HOUSTON, L. LUGENE.....	PROTEIN INTERACTIONS.....	5K04 CA00114-02
MC CHESNEY, JAMES D.....	GROWTH/DEVELOPMENT AND BIOLOGICALLY ACTIVE TERPENOIDs.....	5K04 GM00102-02
<b>MANHATTAN</b>		
KANSAS STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE      ZIP CODE 66506		
ROUFA, DONALD J.....	GENETICS OF DNA REPLICATION IN ANIMAL CELLS.....	1K04 GM00245-01
SMITH, JOSEPH E.....	ERYTHROCYTE ENZYMOPATHIES IN ANIMALS.....	5K04 HL70119-05
<b>KENTUCKY</b>		
<b>LOUISVILLE</b>		
UNIVERSITY OF LOUISVILLE      ZIP CODE 40208		
WESTPHAL, ULRICH F.....	STEROID-PROTEIN INTERACTIONS.....	5K06 GM14138-14
WESTPHAL, ULRICH F.....	STEROID-PROTEIN INTERACTIONS.....	5K06 GM14138-15
<b>LOUISIANA</b>		
<b>COVINGTON</b>		
TULANE UNIVERSITY      ZIP CODE 70433		
SU-CHEN, LI C.....	BIOCHEMICAL STUDIES ON SPHINGOLIPIDOSES.....	5K04 AM00016-02
<b>NEW ORLEANS</b>		
LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS      ZIP CODE 70119		
LOPEZ-S, ALFREDO.....	ACADEMIC CAREER DEVELOPMENT AWARD IN NUTRITION.....	5K07 AM70349-03
REEVES, RICHARD E.....	THE NUTRITION & METABOLISM OF ANAEROBIC ORGANISMS.....	5K06 GM14023-13
TULANE UNIVERSITY      ZIP CODE 70118		
ALWORTH, WILLIAM L.....	BIOSYNTHESIS OF THE DBI MOIETY OF VITAMIN B12.....	5K04 AM70280-05
IGNARRO, LOUIS J.....	BIOREGULATION OF LYSOSOMAL ENZYME SECRETION.....	5K04 AM00076-02
MALEK, EMILE A.....	EPIDEMIOLOGY AND CONTROL OF SCHISTOSOMIASIS.....	5K06 AI18424-13
MALEK, EMILE A.....	EPIDEMIOLOGY AND CONTROL OF SCHISTOSOMIASIS.....	5K06 AI18424-14
TOU, JEN-SIE H.....	PHOSPHOLIPID METABOLISM BY LEUKEMIC LEUKOCYTES.....	5K04 CA00013-02
WEINSTEIN, ALLAN M.....	IMPLANT PERFORMANCE EVALUATION AND ATTACHMENT TO BONE.....	1K04 AM00222-01
<b>SHREVEPORT</b>		
LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT SHREVEPORT      ZIP CODE 71101		
GEORGE, RONALD B.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70359-05

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>MAINE</b>		
<b>PORTLAND</b>		
<b>MAINE MEDICAL CENTER      ZIP CODE 04102</b>		
NELSON, CLIFFORD V.....	ACCURATE MEASUREMENTS OF HEART DIPOLE MOMENT.....	5K06 HL01932-15
<b>MARYLAND</b>		
<b>BALTIMORE</b>		
<b>JOHNS HOPKINS UNIVERSITY      ZIP CODE 21218</b>		
ADKINSON, N FRANKLIN, JR.....	SUPPORT FOR IMPROVEMENT OF ALLERGIC-DISEASE CURRICULUM.....	5K07 AI71026-03
ARNOLD, EUGENE A, JR.....	PROTEIN BIOSYNTHESIS IN NEOPLASIA.....	5K04 CA38871-05
BAYLIN, STEPHEN B.....	BIOGENIC AMINES AND HORMONE RELEASE IN ENDOCRINE TUMORS.....	5K04 CA00027-02
BECKER, MARSHALL H.....	ENHANCING COMPLIANCE WITH MEDICAL RECOMMENDATIONS.....	5K04 HD00061-02
BRAND, LUDWIG.....	FLUORESCENCE DECAY STUDIES-BIOLOG. NANOSECOND KINETICS.....	5K04 GM10245-05
CHILDS, BARTON.....	STUDIES IN HUMAN GENETICS.....	5K06 HD01104-15
COLVIN, MICHAEL.....	PHARMACOLOGY OF CYCLOPHOSPHAMIDE AND NITROSOUREAS.....	5K04 CA00103-02
COMSTOCK, GEORGE W.....	FOLLOW-UP STUDIES OF CARDIORESPIRATORY DISEASE.....	5K06 HL21670-13
DE LONG, MAHLON R.....	NEUROLOGY AND NEUROPHYSIOLOGY.....	5K07 NS11069-03
FENSELAU, ALLAN H.....	COMPARATIVE STRUCTURE-FUNCTION STUDIES ON GAPDH.....	5K04 GM70423-05
FENSELAU, CATHERINE C.....	MASS SPECTROMETRY IN PHARMACOLOGY & BIOMEDICAL RESEARCH.....	5K04 GM70417-05
FLAHERTY, JOHN T.....	PATHOPHYSIOLOGY OF MYOCARDIAL ISCHEMIA.....	5K04 HL00019-02
GAFFNEY, BETTY.....	PHYSICAL PROPERTIES OF MEMBRANE PROTEINS.....	1K04 CA00168-01
GILLESPIE, ELIZABETH.....	ROLE OF MICROTUBULES IN ALLERGY.....	5K04 AI00043-02
HENNEY, CHRISTOPHER S.....	QUANT. ASPECTS OF CELL MEDIATED & HUMORAL IMMUNOLOGY.....	5K04 AI70393-05
KAO, LUKE I.....	DEVELOPMENT AND DISORDERS OF NERVE-MUSCLE INTERACTION.....	1K07 NS00192-01
KAZAZIAN, HAIG H, JR.....	GENETIC CONTROL OF HEMOGLOBIN SYNTHESIS.....	5K04 AM70669-04
KELLY, THOMAS J, JR.....	MECHANISMS OF VIRAL CARCINOGENESIS.....	5K04 CA70220-05
LEE, YUAN C.....	STUDY OF CELL SURFACE COMPLEX CARBOHYDRATES.....	5K04 AM70148-05
LEVIN, LESLIE S.....	LINKAGE AND HERITABLE DISORDERS OF CONNECTIVE TISSUE.....	1K04 DE00021-01
LILIENFELD, ABRAHAM M.....	RESEARCH IN PUBLIC HEALTH ASPECTS OF CHRONIC DISEASES.....	5K06 GM13901-15
LIN, SHIN.....	SUGAR TRANSPORT AND CELL MOVEMENT IN MAMMALIAN CELLS.....	1K04 GM00241-01
MAUMENCE, IRENE H.....	SEGREGATION AND LINKAGE ANALYSIS IN OPHTHALMOGENETICS.....	5K04 GM70124-05
MENKES, HAROLD A.....	PULMONARY INTERDEPENDENCE.....	5K04 HL00058-02
MIGEON, CLAUDE J.....	RELATION OF HORMONES TO GROWTH AND DEVELOPMENT.....	5K06 AM21855-13
MITCH, WILLIAM E.....	NUTRITIONAL THERAPY OF UREMIA.....	1K08 AM00214-01
MURPHY, PATRICK A.....	CHEMISTRY AND PHYSIOLOGY OF LEUCOCYTE PYROGEN.....	5K04 AI00089-02
PIRKLE, J CARL, JR.....	ANALYSIS AND EXPERIMENTATION IN BLOOD VOLUME CONTROL.....	5K04 HL00068-02
POLJAK, ROBERTO J.....	STRUCTURE OF IMMUNOGLOBULINS AND ANTIBODIES.....	5K04 AI70091-05
ROTH, STEPHEN A.....	MORPHOGENESIS IN EMBRYONIC AND MALIGNANT SYSTEMS.....	1K04 HD00148-01
ROYALL, RICHARD M.....	STATISTICAL INFERENCE IN FINITE POPULATIONS.....	5K04 GM70432-04
SACHS, MURRAY B.....	PHYSIOLOGY OF ANIMAL COMMUNICATION BY SOUND.....	5K04 GM70588-04
SCOCCA, JOHN J.....	MOLECULAR MECHANISMS IN DNA TRANSPORT.....	5K04 GM70663-04
SHOUKAS, ARTIN A.....	SYSTEMIC CIRCULATION: CAPACITY AND RESISTIVE PROPERTY.....	1K04 HL00219-01
SYKES, ZENAS M, JR.....	POPULATION MATHEMATICS.....	5K04 HD70404-05
ZEE, DAVID S.....	MECHANISMS OF HUMAN VESTIBULAR AND OCULOMOTOR DISORDERS.....	5K07 NS11071-02
<b>SINAI HOSPITAL OF BALTIMORE      ZIP CODE 21215</b>		
HAUSWIRTH, JUDITH W.....	RELATIONSHIP BETWEEN NUTRITION AND CARCINOGENESIS.....	5K04 CA70560-04
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND AT BALTIMORE      ZIP CODE 21201</b>		
KOSKI, CAROL L.....	GLYCOPROTEINS AND NEUROMUSCULAR INTERACTIONS.....	1K07 NS00172-01
PADMANABHAN, RADHAKRISHNAN.....	DNA SEQUENCE ANALYSIS ON HUMAN ADENOVIRUS GENOMES.....	7K04 CA00235-02



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>MARYLAND—Continued</b>		
<b>CATONSVILLE</b>		
UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND BALTIMORE COUNTY CAMPUS		ZIP CODE 21228
LOVETT, PAUL S.	CONSTRUCTION OF PLASMIDS FOR BACILLUS SUBTILIS	1K04 AI00119-01
<b>MASSACHUSETTS</b>		
<b>AMHERST</b>		
UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS AT AMHERST		ZIP CODE 01002
LEVIN, BRUCE R.	SELECTION IN BACTERIA AND THEIR VIRUSES AND PLASMIDS	5K04 GM00112-02
WADE, GEORGE N.	HORMONES, BRAIN FUNCTION AND BEHAVIOR	5K04 NS00090-02
ZIMMERMAN, ROBERT A.	STRUCTURE OF PROTEIN BINDING SITES IN RIBOSOMAL RNA	5K04 GM00129-02
<b>BOSTON</b>		
AFFILIATED HOSPITALS CENTER—PETER BENT BRIGHAM HOSPITAL		ZIP CODE 02115
LA MONT, JOHN T.	GLYCOPROTEIN METABOLISM IN COLON CANCER	5K08 AM00138-02
BETH ISRAEL HOSPITAL		ZIP CODE 02215
FROMM, DAVID G.	GASTRIC MUCOSAL PERMEABILITY AND ION TRANSPORT	5K04 AM00053-02
STEER, MICHAEL L.	REGULATION OF ADENYLATE CYCLASE AND CELL FUNCTION	1K04 NS00160-01
BOSTON UNIVERSITY		ZIP CODE 02215
BENNETT, MICHAEL	IMMUNOBIOLOGY OF VIRAL LEUKEMIA AND ITS TREATMENT	5K04 CA70879-03
BERMAN, MARLENE O.	NORMAL AND PATHOLOGICAL HUMAN BRAIN FUNCTION	1K04 NS00161-01
BRECHER, PETER I.	ANGIOTENSIN ACTION ON TARGET TISSUES	5K04 HL00050-02
COUSER, WILLIAM G.	IMMUNOLOGIC MECHANISMS OF GLOMERULAR INJURY	5K04 AM00102-02
GAENSLER, EDWARD A.	APPLIED PULMONARY PHYSIOLOGY	5K06 HL01173-13
LAING, RONALD A.	MEASUREMENT OF RETINAL A-VO <sub>2</sub> DIFFERENCE	5K04 EY28936-02
MAKE, BARRY	PULMONARY ACADEMIC AWARD	1K07 HL00246-01
OPPENHEIM, FRANK G.	CHEMISTRY OF SALIVARY PROTEINS	5K04 DE00004-02
SULLIVAN, ALBERT L.	CHARACTERIZATION OF MEMBRANE TRANSFERRIN RECEPTOR SITES	5K04 AM00054-02
CHILDREN'S HOSPITAL MEDICAL CENTER		ZIP CODE 02115
ABELSON, HERBERT T.	REGULATION OF RNA METABOLISM IN MAMMALIAN CELLS	5K04 CA00075-02
ALTER, BLANCHE P.	HEMOGLOBIN REGULATION/DIFFERENTIATION DURING DEVELOPMENT	1K04 HL00177-01
ALTER, BLANCHE P.	HEMOGLOBIN REGULATION/DIFFERENTIATION DURING DEVELOPMENT	5K04 HL00177-02
COLTEN, HARVEY R.	MEDIATORS OF HYPERSENSITIVITY: GENETIC ASPECTS	5K04 HD70558-04
GLADER, BERTIL E.	PATHOPHYSIOLOGY OF HEMOLYSIS: ROLE OF RBC DEHYDRATION	1K04 AM00156-01
GRAND, RICHARD J.	ACADEMIC CAREER DEVELOPMENT AWARD IN DIGESTIVE DISEASES	5K07 AM44590-05
LAIT, SAMUEL A.	HUMAN CHROMOSOME STRUCTURE AND REPLICATION	5K04 GM00122-02
MC CAFFREY, RONALD P.	ANALYZE KINDS OF DNA POLYMERASES IN HUMAN LEUKEMIA	5K04 CA00099-02
FORSYTH DENTAL CENTER		ZIP CODE 02115
SKOBE, ZIEDONIS	ULTRASTRUCTURE OF AMELOGENESIS & ODONTOPATHIC BACTERIA	1K04 DE00018-01
SMITH, DANIEL J.	EFFECTS OF IMMUNIZATION ON EXPERIMENTAL DENTAL CARIES	1K04 DE00024-01
TAUBMAN, MARTIN A.	ROLE OF SALIVARY IMMUNOGLOBULINS IN ORAL DISEASES	5K04 DE70122-05
HARVARD UNIVERSITY		ZIP CODE 02138
BEEUWKES, REINIER, III	RENAL MECHANISMS OF SALT AND WATER BALANCE	1K04 AM00224-01
BERSON, ELIOT L.	ELECTROPHYSIOLOGICAL STUDIES OF RETINAL DEGENERATIONS	5K04 EY70800-03
BING, OSCAR H.	COMPUTER FEEDBACK STUDY OF CARDIAC MUSCLE MECHANICS	5K04 HL00072-02
CAREY, MARTIN C.	ALIMENTARY TRACT LIPIDS IN HEALTH AND DISEASE	1K04 AM00195-01
CHERNIN, ELI	STUDY OF PATHOGENS BY IN VITRO AND RELATED METHODS	5K06 AI02455-13
CHURCHILL, WINTHROP H.	THE ROLE OF MACROPHAGES & BASOPHILS IN TUMOR IMMUNITY	5K04 CA00116-02
CHYLACK, LEO T, JR.	LENS METABOLISM AND CATARACT FORMATION	5K04 EY00034-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>MASSACHUSETTS—Continued</b>		
COHEN, JONATHAN B.....	MECHANISM OF CHOLINERGIC POSTSYNAPTIC RESPONSE.....	1K04 NS00155-01
CRUMPACKER, CLYDE S, II.....	HERPES VIRUS NUCLEIC ACIDS IN HUMAN TUMORS.....	5K04 CA00139-02
DICHTER, MARC A.....	CNS CELL CULTURE PHYSIOLOGY & MECHANISMS OF EPILEPSY.....	5K04 NS00130-02
DORF, MARTIN E.....	COMPLEMENTATION STUDIES ON H-LINKED IR GENES.....	1K04 AM00152-01
FALCHUK, Z MYRON.....	GASTROINTESTINAL IMMUNOLOGY AND FUNCTION.....	1K04 AM00210-01
FAREED, GEORGE C.....	SV40 DNA REPLICATION AND TRANSFORMATION.....	5K04 CA00057-02
FRAENKEL, DAN G.....	INTERMEDIARY CARBOHYDRATE METABOLISM IN BACTERIA.....	5K03 GM07344-10
FRIEDMAN, PAUL A.....	PLACENTAL TRANSPORT OF VITAMIN B12.....	5K04 HD00023-02
GETTLEMAN, LAWRENCE.....	DEVELOPMENT OF IMPROVED CROWN AND BRIDGE RESTORATIONS.....	1K04 DE00010-01A1
GOLDBERG, ALFRED L.....	MECHANISMS OF GROWTH AND ATROPHY OF SKELETAL MUSCLE.....	5K04 NS35289-05
GOLDSTEIN, RICHARD N.....	MORPHOGENESIS AND GENE CONTROL OF SATELLITE PHAGE P4.....	5K04 AI00084-02
GOODENOUGH, DANIEL A.....	STRUCTURE & FUNCTION OF LIVER & HEART GAP JUNCTIONS.....	1K04 GM00231-01
HALL, ZACH W.....	NEURAL CONTROL OF POSTSYNAPTIC MUSCLE PROTEINS.....	5K04 NS30984-05
HARTLEY, LOREN H.....	CORONARY HEART DISEASE, HYPERTENSION, AND FITNESS.....	5K04 HL32455-04
HAUSCHKA, PETER V.....	CONTROL OF CALCIUM BINDING BY PROTEIN CARBOXYLATION.....	1K04 DE00049-01
HAYES, KENNETH C.....	ATHEROGENESIS AND LIPID METABOLISM.....	5K04 HL70285-04
HEGSTED, DAVID M.....	QUANTIFICATION OF NUTRITION REQUIREMENTS.....	5K06 AM18455-15
HUANG, ALICE S.....	CONTROL MECHANISMS DURING VSV REPLICATION.....	5K04 AI70413-05
KASPER, DENNIS L.....	IMMUNOCHEMISTRY OF BACTERIAL ANTIGENS.....	1K04 AI00126-01
KUSHMERICK, MARTIN J.....	MUSCLE ENERGY METABOLISM.....	1K04 AM00178-01
MC FADDEN, EDWARD R, JR.....	PATHOPHYSIOLOGY OF EXERCISE-INDUCED ASTHMA.....	5K04 HL00013-02
MC MAHAN, UEL J, II.....	STRUCTURE AND FUNCTION OF SYNAPSES.....	5K04 NS70606-04
MC NEIL, BARBARA J.....	MEASURES OF EFFICACY IN RADIOLOGY AND NUCLEAR MEDICINE.....	1K04 GM00194-01
MOSKOWITZ, MICHAEL A.....	AMPHETAMINE TOXICITY AND BRAIN PROTEIN SYNTHESIS.....	5K07 NS11081-02
MURPHY, JOHN R.....	VRULNCE FACTORS OF CORYNEBACTERIUM DIPHTHERIAE.....	1K04 AI00146-01
PATTERSON, PAUL H.....	CELLULAR INTERACTION IN TISSUE CULTURE.....	5K04 NS70806-03
PERLMAN, ROBERT L.....	ACTIONS OF CYCLIC AMP IN ANIMAL CELLS AND BACTERIA.....	5K04 AM70648-04
PIERCE, CARL W.....	REGULATION OF IMMUNE RESPONSES: CELL INTERACTIONS.....	5K04 AI70173-05
POLLARD, THOMAS D.....	THE MOLECULAR MECHANISM OF CELLULAR MOTILITY.....	5K04 GM70755-03
RANDO, ROBERT R.....	SUBSTRATE INDUCED IRREVERSIBLE INHIBITION OF ENZYMES.....	5K04 GM00014-02
RICHARDSON, CHARLES C.....	STUDY OF STRUCTURE AND SYNTHESIS OF DNA.....	5K03 GM13634-10
ROCKLIN, ROSS E.....	MECHANISMS OF CELLULAR IMMUNITY IN MAN.....	5K04 AI70796-03
RUDERMAN, NEIL B.....	GLUCOSE AND AMINO ACID METABOLISM IN SKELETAL MUSCLE.....	5K04 AM15729-05
SCHNITMAN, PAUL A.....	RADIOISOTOPE SCAN OF BONE AROUND DENTAL IMPLANTS.....	5K04 DE00006-02
SHAW, JAMES H.....	BIOCHEMISTRY OF ORAL TISSUES, SECRETIONS AND DISEASES.....	5K06 DE22634-13
SPEIZER, FRANK E.....	EPIDEMIOLGIC STUDIES IN CHRONIC RESPIRATORY DISEASES.....	5K04 ES33332-05
STROM, TERRY B.....	REGULATION OF THE CELLULAR EVENTS IN TRANSPLANT IMMUNITY.....	1K04 AI00155-01
STUART, ANN E.....	SYNAPTIC TRANSMISSION.....	5K04 EY70985-03
THENEN, SHIRLEY W.....	EXPERIMENTAL OBESITY-GENETIC AND ACQUIRED.....	5K04 AM00106-02
WAXMAN, STEPHEN G.....	ORGANIZATION OF MYELINATED AND DEMYELINATED AXONS.....	5K04 NS00010-02
ZAPOL, WARREN M.....	MEMBRANE LUNG PERFUSION FOR ACUTE RESPIRATORY FAILURE.....	5K04 HL70303-04
ZAPOL, WARREN M.....	MEMBRANE LUNG PERFUSION FOR ACUTE RESPIRATORY FAILURE.....	5K04 HL70303-05
<b>MASSACHUSETTS EYE AND EAR INFIRMARY ZIP CODE 02114</b>		
NADOL, JOSEPH B, JR.....	STUDY OF SENSORINEURAL HEARING LOSS.....	1K07 NS00174-01
<b>MASSACHUSETTS GENERAL HOSPITAL ZIP CODE 02114</b>		
BETINS, INESE Z.....	GONADOTROPIN HETEROGENEITY.....	1K04 HD00132-01
CROWELL, ROBERT M.....	NEUROSURGERY-CEREBROVASCULAR DISEASE.....	5K07 NS11001-03
GOITEIN, MICHAEL.....	DOSE AND TUMOR LOCALIZATION PROTONS THERAPY.....	1K04 CA00251-01
KAPLAN, JOAN C.....	INDUCTION OF SV40 VIRUS FROM TRANSFORMED MAMMALIAN CELLS.....	1K04 CA00198-01
LINSENMAYER, THOMAS F.....	BIOSYNTHESIS AND ROLE OF MATRIX IN DEVELOPMENT.....	5K04 AM00031-02
MALAMUD, DANIEL F.....	SALIVARY GLAND GROWTH SECRETION, IMMUNOSUPPRESSION.....	5K04 CA70153-05
MILLER, KEITH W.....	MOLECULAR PHARMACOLOGY OF GENERAL ANESTHETIC ACTION.....	1K04 GM00199-01
WALKER, W ALLAN.....	ANTIBODY CONTROL OF ANTIGEN UPTAKE IN SMALL INTESTINE.....	5K04 AM00025-02
WANDS, JACK R.....	IMMUNITY IN ACUTE AND CHRONIC HEPATITIS.....	5K08 AM00127-02
<b>NEW ENGLAND DEACONESS HOSPITAL ZIP CODE 02215</b>		
KNOX, W EUGENE.....	CONTROL OF ENZYME CONCENTRATIONS IN ANIMAL CELLS.....	5K06 AM02018-14

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>MASSACHUSETTS—Continued</b>		
<b>NEW ENGLAND MEDICAL CENTER HOSPITAL      ZIP CODE 02111</b>		
AGNELLO, VINCENT .....	STUDIES ON HUMAN IMMUNE COMPLEX DISEASES .....	5K04 AI70968-03
FANBURG, BARRY L. ....	HYPERTROPHY, EXCITATION-CONTRACTION, AND LUNG METABOLISM .....	5K03 HL34988-10
FURIE, BARBARA C. ....	METAL DEPENDENT COMPLEX FORMATION IN BLOOD COAGULATION .....	1K04 HL00235-01
LEVY, STUART B. ....	REPLICATION AND TRANSFER OF R FACTOR DNA .....	5K04 AI70132-05
PLAUT, ANDREW G. ....	IMMUNOCHEMISTRY AND FUNCTION OF HUMAN MACROGLOBULIN .....	5K04 AI70420-04
RABEN, MAURICE S. ....	HORMONAL & METABOLIC ASPECTS OF CARDIOVASCULAR FUNCTION .....	5K06 AM02758-14
SKOL, SAMUEL .....	ELECTROPHYSIOLOGICAL INDICES OF PHOTOPIC MECHANISMS .....	5K04 EY70275-02
<b>TUFTS UNIVERSITY      ZIP CODE 02111</b>		
COOPER, AMIEL G. ....	BLOOD-GROUP ANTIGENS ON TUMOR CELL MEMBRANES .....	5K04 CA70680-04
FALING, LEENDERT J. ....	PULMONARY ACADEMIC AWARD .....	5K07 HL70366-05
FISHMAN, WILLIAM H. ....	ENZYMOLGY IN RELATION TO CANCER .....	5K06 CA18453-15
<b>CAMBRIDGE</b>		
<b>HARVARD UNIVERSITY      ZIP CODE 02138</b>		
DRESSLER, DAVID H. ....	MOLECULAR MECHANISMS INVOLVED IN DNA REPLICATION .....	5K04 GM70440-04
DRESSLER, DAVID H. ....	MOLECULAR MECHANISMS INVOLVED IN DNA REPLICATION .....	5K04 GM70440-05
ELGIN, SARAH C. ....	CHROMOSOMAL PROTEINS AND GENE EXPRESSION IN DROSOPHILA .....	1K04 GM00234-01
HARRISON, STEPHEN C. ....	STRUCTURE AND ASSEMBLY OF VIRUSES .....	5K04 CA70169-05
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY      ZIP CODE 02139</b>		
BOTSTEIN, DAVID .....	MICROBIAL MOLECULAR GENETICS .....	5K04 GM70325-05
HECHT, SIDNEY M. ....	THE TOTAL SYNTHESIS OF BLEOMYCIN .....	5K04 CA00021-02
WEISS, THOMAS F. ....	MECHANICAL TO NEURAL TRANSDUCTION IN THE COCHLEA .....	5K04 NS00113-02
<b>CHESTNUT HILL</b>		
<b>BOSTON COLLEGE      ZIP CODE 02167</b>		
KELLY, T ROSS .....	SYNTHESIS OF THE ANTITUMOR AGENT HARRINGTONINE .....	5K04 CA00040-02
<b>SHREWSBURY</b>		
<b>WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY      ZIP CODE 01545</b>		
BARTKE, ANDRZEJ .....	ROLE OF PROLACTIN IN THE MALE .....	5K04 HD70369-05
CHANG, MIN C. ....	FERTILIZABILITY OF MAMMALIAN EGGS .....	5K06 HD18334-15
<b>WALTHAM</b>		
<b>BRANDEIS UNIVERSITY      ZIP CODE 02154</b>		
HONG, JEN-SHIANG .....	BIOCHEMISTRY AND GENETICS OF MEMBRANE FUNCTIONS .....	5K04 GM00092-02
LATTMAN, EATON E. ....	X-RAY DIFFRACTION STUDY OF MUSCLE REGULATORY PROTEINS .....	1K04 HL00161-01
PARRY, RONALD J. ....	BIOSYNTHESIS OF CEPHALOTAXUS AND SECURINEGA ALKALOIDS .....	5K04 GM00143-02
ROSBASH, MICHAEL M. ....	MACROMOLECULES IN OOGENESIS AND DEVELOPMENT .....	1K04 HD00134-01
STEPHENS, RAYMOND E. ....	THE FORMATION AND FUNCTION OF MICROTUBULES .....	5K04 GM70164-05
VAN VUNAKIS, HELEN. ....	STRUCTURE & ACTIVITY OF BIOLOGICALLY IMPORTANT MOLECULES .....	5K06 AI02372-14
WENSINK, PIETER C. ....	SEQUENCE ARRANGEMENT IN EUKARYOTIC DNA AND CHROMOSOMES .....	1K04 GM00212-01
<b>EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION      ZIP CODE 02154</b>		
JUNGALWALA, FIROZE B. ....	EXPERIMENTAL NEUROTUMORS AND MYELIN METABOLISM .....	5K04 CA00144-02
<b>WORCESTER</b>		
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL      ZIP CODE 01605</b>		
FAY, FREDRIC S. ....	GENERATION AND REGULATION OF FORCE IN SMOOTH MUSCLE .....	5K04 HL00048-02



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>MICHIGAN</b>		
<b>ANN ARBOR</b>		
<b>UNIVERSITY OF MICHIGAN</b>	<b>ZIP CODE 48104</b>	
CLEWELL, DON B.....	STRUCTURE, MAINTENANCE, AND EXPRESSION OF PLASMD DNA.....	5K04 AI00061-02
NIEDERHUBER, JOHN E.....	IMMUNE RESPONSES IN VITRO-H-2(I) REGION FUNCTIONS.....	7K04 AI00237-03
WEG, JOHN G.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70368-05
WHITFIELD, HARVEY J, JR.....	EPISOMAL DNA: CONTROL OF REPLICATION AND SEGREGATION.....	5K04 GM70565-04
<b>DETROIT</b>		
<b>WAYNE STATE UNIVERSITY</b>	<b>ZIP CODE 48202</b>	
BOECKMAN, ROBERT K.....	SYNTHESIS OF BIOLOGICALLY ACTIVE NATURAL PRODUCTS.....	1K04 CA00273-01
GORELJC, LESTER S.....	RADIATION-INDUCED CARCINOGENESIS; MRNA TURNOVER.....	5K04 CA70999-03
KAPLAN, JOSEPH.....	TUMOR IMMUNOLOGY OF CHILDHOOD LEUKEMIA AND LYMPHOMA.....	1K04 CA00188-01
KING, ALBERT I.....	INJURY MECHANISMS IN OFF-AXIS IMPACT.....	5K04 GM21145-05
LEWIS, BENJAMIN M.....	PHYSIOL & PATHOL REACTIONS OF PULMONARY CAPILLARY BED.....	5K06 HL02182-14
ZWAS, FRED.....	PSYCHOPHYSICAL STUDIES OF RETINITIS PIGMENTOSA.....	1K07 EY00045-01
<b>EAST LANSING</b>		
<b>MICHIGAN STATE UNIVERSITY</b>	<b>ZIP CODE 48823</b>	
ROMSOS, DALE R.....	METABOLIC EFFECTS OF DIET AND MEAL PATTERN.....	5K04 AM00112-02
RONZIO, ROBERT A.....	MEMBRANE FORMATION AND FUNCTION DURING DEVELOPMENT.....	5K04 HD70309-05
TROSKO, JAMES E.....	REPAIR PROCESSES IN NORMAL AND ABNORMAL HUMAN CELLS.....	5K04 CA24085-05
VELICER, LELAND F.....	MOLECULAR BIOLOGY OF RNA TUMOR VIRUSES.....	5K04 CA70808-03
<b>ROCHESTER</b>		
<b>OAKLAND UNIVERSITY</b>	<b>ZIP CODE 48063</b>	
ROY, ARUN K.....	REGULATION OF ALPHA2U GLOBULIN IN THE RAT.....	1K04 AM00141-01
<b>MINNESOTA</b>		
<b>MINNEAPOLIS</b>		
<b>UNIVERSITY OF MINNESOTA</b>	<b>ZIP CODE 55455</b>	
DESNICK, ROBERT J.....	THERAPY OF METABOLIC DISEASES.....	5K04 AM00042-02
DRAGE, CHARLES W.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70063-03
HALBERG, FRANZ.....	TEMPORAL PARAMETERS OF PHYSIOL FUNCTIONS IN HLTH/DISEASE.....	5K06 GM13981-15
HOWARD, RICHARD J.....	VIRUS-IMMUNE INTERACTION IN MICE & TRANSPLANT PATIENTS.....	1K04 AI00167-01
KRONENBERG, RICHARD S.....	RESPIRATORY REGULATION; REGIONAL LUNG FUNCTION.....	5K04 HL70356-04
SCHENIMAN, JON I.....	SMOOTH MUSCLE PROTEINS IN DIABETIC VASCULAR DISEASE.....	5K04 AM00126-02
SCHWARTZ, SAMUEL.....	BIOLOGICAL AND BIOCHEMICAL EFFECTS OF PORPHYRINS.....	5K06 GM14086-14
SLADEK, NORMAN E.....	CYCLOPHOSPHAMIDE-BIOTRANSFORMATION & CYTOTOXIC ACTION.....	5K04 CA70383-05
SUTHERLAND, DAVID E.....	ISOLATION AND TRANSPLANTATION OF PANCREATIC ISLETS.....	5K04 AM00161-02
VINCE, ROBERT.....	INHIBITORS AS POTENTIAL ANTICANCER AGENTS.....	5K04 CA25258-05
<b>ROCHESTER</b>		
<b>MAYO FOUNDATION</b>	<b>ZIP CODE 55901</b>	
GREENLEAF, JAMES F.....	3-D DISTRIBUTION OF BLOOD FLOW USING RECONSTRUCTION.....	5K04 HL00060-02
JOHNSON, STEVEN A.....	X-RAY AND ULTRASOUND MEDICAL 3-D IMAGE FORMATION.....	1K04 HL00170-01
JOHNSON, STEVEN A.....	X-RAY AND ULTRASOUND MEDICAL 3-D IMAGE FORMATION.....	5K04 HL00170-02
RODARTE, JOSEPH R.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70816-03
YUNGINGER, JOHN W.....	ISOLATION AND CHARACTERIZATION OF MOLD ALLERGENS.....	5K07 AI00107-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>MINNESOTA—Continued</b>		
MAYO FOUNDATION—MAYO MEDICAL SCHOOL      ZIP CODE 55901		
BRIMUJOIN, WILLIAM S.....	AXONAL TRANSPORT IN ADRENERGIC NERVES.....	5K04 NS00119-02
<b>SAINT PAUL</b>		
UNIVERSITY OF MINNESOTA      ZIP CODE 55455		
FAN, DAVID P.....	CELL GROWTH AND DIVISION.....	5K04 GM70194-05
MUNCK, ECKARD.....	PROPERTIES OF NITROGENASE SYSTEMS/HEMES.....	5K04 GM00057-03
SHERIDAN, JUDSON D.....	PHYSIOLOGY OF INTERCELLULAR JUNCTIONS.....	5K04 CA70388-04
SHERIDAN, JUDSON D.....	PHYSIOLOGY OF INTERCELLULAR JUNCTIONS.....	5K04 CA70388-05
<b>MISSISSIPPI</b>		
<b>JACKSON</b>		
UNIVERSITY OF MISSISSIPPI MEDICAL CENTER      ZIP CODE 39216		
COLEMAN, THOMAS G.....	CONTROL OF BLOOD PRESSURE: EXPERIMENTS AND THEORY.....	5K04 HL70425-04
COLEMAN, THOMAS G.....	CONTROL OF BLOOD PRESSURE: EXPERIMENTS AND THEORY.....	5K04 HL70425-05
<b>MISSOURI</b>		
<b>COLUMBIA</b>		
UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT COLUMBIA      ZIP CODE 65201		
FORTE, LEONARD R.....	STUDIES OF KIDNEY HORMONE RECEPTORS.....	5K04 AM70756-03
HARRIS, PATRICK D.....	MICROVASCULAR MECHANISMS IN HYPER- AND HYPOTENSION.....	5K04 HL20422-04
WANG, RICHARD J.....	GENETICS OF NORMAL AND MALIGNANT HUMAN CELLS IN CULTURE.....	5K04 GM70537-05
<b>SAINT LOUIS</b>		
JEWISH HOSPITAL OF ST. LOUIS      ZIP CODE 63110		
BIRGE, STANLEY J.....	MECHANISMS OF CALCIUM TRANSPORT.....	5K04 AM00109-02
ST. LOUIS UNIVERSITY      ZIP CODE 63103		
BOSE, SUBIR K.....	MECHANISM OF TRANSFORMATION BY ONCOGENIC RNA VIRUSES.....	5K03 GM20789-10
ELICEIRI, GEORGE L.....	HYBRID CELL GENE EXPRESSION AND TUMOR VIRUS EFFECTS.....	5K04 GM70446-05
GREEN, MAURICE.....	BIOCHEMISTRY OF VIRAL REPLICATION.....	5K06 AI04739-14
GREEN, MAURICE.....	BIOCHEMISTRY OF VIRAL REPLICATION.....	5K06 AI04739-15
LONGMORE, WILLIAM J.....	REGULATION OF LIPID METABOLISM IN LUNG.....	5K03 HL11113-10
MARRS, BARRY L.....	MEMBRANE DEVELOPMENT: A BIOCHEMICAL GENETICS APPROACH.....	5K04 GM00098-02
SECKER-WALKER, ROGER H.....	PULMONARY ACADEMIC AWARD.....	1K07 HL00251-01
<b>UNIVERSITY CITY</b>		
WASHINGTON UNIVERSITY      ZIP CODE 63130		
AGRAWAL, HARISH C.....	STUDIES ON MYELIN PROTEIN IN DEVELOPING BRAIN.....	5K04 NS70090-03
BAUER, EUGENE A.....	CONTROL OF COLLAGENASE BIOSYNTHESIS IN CELL CULTURE.....	5K04 AM00077-02
CSAPO, ARPAD I.....	PHYSIOLOGY OF PREGNANCY AND PARTURITION STUDIES.....	5K06 HD20169-14
DODSON, WILLIAM E.....	METABOLISM OF ANTICONSULSANTS.....	5K07 NS11074-02
GOTTLIEB, DAVID I.....	STUDIES ON MOLECULAR BASIS OF MEMBRANE RECOGNITION.....	1K04 NS00185-01
HAIN, THEODORE J.....	DRUG AND HORMONALLY-INDUCED ALTERATIONS IN VITAMIN D.....	5K04 NS70540-04
HILLMAN, RICHARD E.....	MEMBRANE TRANSPORT OF AMINO ACIDS.....	5K04 AM00080-02
HOCHMUTH, ROBERT M.....	RED CELL MEMBRANE: ADHESION AND ELASTICITY.....	5K04 HL70612-04
JACOBS, LAURENCE S.....	REGULATION OF ANTERIOR PITUITARY HORMONE SECRETION.....	5K04 AM70521-05
KIM, DUCK O.....	INNER EAR AND COCHLEAR NUCLEUS MECHANISMS.....	1K04 NS00162-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>MISSOURI—Continued</b>		
KING, BARRY F.....	FUNCTIONAL CYTOLOGY OF THE PLACENTA AND FETAL MEMBRANES.....	5K04 HD00067-02
LEFRAK, STEPHEN S.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70351-05
LIN, HSUI-SAN.....	EFFECT OF CYTOTOXIC DRUGS ON LYMPHOMA CELLS.....	5K04 CA70730-03
MC KEEL, DANIEL W, JR.....	HORMONE SECRETION BY NORMAL AND NEOPLASTIC HYPOPHYSIS.....	1K04 AM00184-01
PAGLIARA, ANTHONY S.....	CONTROL OF CARBOHYDRATE METABOLISM AND HORMONE SECRETION.....	5K04 AM00003-02
RAICHEL, MARCIUS E.....	STUDIES IN NEUROLOGY.....	5K07 NS11059-05
ROBSON, ALAN M.....	GLOMERULAR PERMEABILITY IN RENAL DISEASE.....	5K04 AM70236-05
ROEDER, ROBERT G.....	MOLECULAR BASIS OF DIFFERENTIATION.....	5K04 GM70661-04
ROOS, ALBERT.....	PULMONARY BLOOD FLOW AND TRANSMEMBRANE IONIC FLUX.....	5K06 HL19608-14
ROVAINEN, CARL M.....	ORGANIZATION OF SPINAL CORD.....	5K04 NS70391-04
SCHLAEPFER, WILLIAM W.....	STUDY OF PERIPHERAL NERVE DYSFUNCTION.....	5K04 NS70037-05
SILBERT, DAVID F.....	BIOCHEMICAL GENETIC STUDY OF BACTERIAL FATTY ACIDS.....	5K04 GM70654-04
SULLIVAN, TIMOTHY J.....	BIOCHEMISTRY OF MAST CELL SECRETION.....	1K07 AI00190-01
SWEET, FREDERICK.....	STEROID BIOSYNTHESIS, TRANSPORT AND MECHANISM OF ACTION.....	5K04 HD70788-03
VOLPE, JOSEPH J.....	REGULATION OF FATTY ACID SYNTHESIS DURING DEVELOPMENT.....	5K04 HD70608-03
WEDNER, H JAMES.....	CYCLIC NUCLEOTIDES AND LYMPHOCYTE ACTIVATION.....	5K04 AI00041-02
WILLARD, MARK B.....	AXONALLY TRANSPORTED PROTEINS IN THE VISUAL SYSTEM.....	1K04 NS00170-01
<b>MONTANA</b>		
<b>BOZEMAN</b>		
<b>MONTANA STATE UNIVERSITY      ZIP CODE 59715</b>		
REED, NORMAN D.....	IMMUNOBIOLOGY OF CONGENITALLY THYMUSLESS MICE.....	5K04 AI70208-05
<b>MISSOULA</b>		
<b>UNIVERSITY OF MONTANA      ZIP CODE 59801</b>		
HILL, WALTER E.....	PHYSICAL STUDIES OF ALTERED RIBOSOMAL SUBUNITS.....	5K04 GM19692-04
HILL, WALTER E.....	PHYSICAL STUDIES OF ALTERED RIBOSOMAL SUBUNITS.....	5K04 GM19692-05
LARSON, CARL L.....	SPECIFIC AND NONSPECIFIC RESISTANCE CAUSED BY T. BACILLI.....	5K06 AI16502-14
<b>NEBRASKA</b>		
<b>OMAHA</b>		
<b>UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER      ZIP CODE 68105</b>		
SORRELL, MICHAEL F.....	ACADEMIC CAREER DEVELOPMENT IN DIGESTIVE DISEASES.....	5K07 AM70316-05
WOLF, GERALD L.....	RADIOLOGICAL STUDIES OF LIVER, HEART & RENAL CIRCULATION.....	5K04 GM70683-04
<b>NEW HAMPSHIRE</b>		
<b>HANOVER</b>		
<b>DARTMOUTH COLLEGE      ZIP CODE 03755</b>		
BARTLETT, DONALD, JR.....	FACTORS INFLUENCING LUNG STRUCTURE AND FUNCTION.....	5K04 HL70129-05
GILBERT, JOHN J.....	VITAMIN E: NEW BIOASSAY, ROLE IN ROTIFERS, NEW COMPOUND.....	5K04 GM70557-03
GILBERT, JOHN J.....	VITAMIN E: NEW BIOASSAY, ROLE IN ROTIFERS, NEW COMPOUND.....	5K04 GM70557-04
KILHAM, LAWRENCE.....	RELATION OF VIRUSES TO CANCER.....	5K06 CA22652-13
SALANS, LESTER B.....	MORPHOLOGIC AND METABOLIC STUDIES OF HUMAN OBESITY.....	5K04 AM20076-05



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>NEW JERSEY</b>		
<b>NEWARK</b>		
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY      ZIP CODE 07103		
REICHMAN, LEE B.....	PULMONARY ACADEMIC AWARD.....	5K07 HL00124-02
<b>NEW BRUNSWICK</b>		
RUTGERS UNIVERSITY      ZIP CODE 08903		
NIEDERMAN, ROBERT A.....	MOLECULAR ASPECTS OF MEMBRANE DEVELOPMENT.....	5K04 GM00093-02
OLSON, WILMA K.....	NUCLEIC ACID CONFORMATION AND PROPERTIES.....	5K04 GM00155-02
VALENTINE, JOAN S.....	THE CHEMISTRY AND BIOCHEMISTRY OF SUPEROXIDE ANION.....	1K04 AM00194-01
<b>PISCATAWAY</b>		
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL      ZIP CODE 08854		
DOYLE, BARBARA B.....	X-RAY DIFFRACTION OF CONNECTIVE TISSUE.....	1K04 AM00168-01
HOLOWCZAK, JOHN A.....	CELL MODIFICATION AND CONTROL OF POXVIRUS REPLICATION.....	5K04 CA70458-05
<b>PRINCETON</b>		
PRINCETON UNIVERSITY      ZIP CODE 08540		
KIRSCHNER, MARC W.....	MECHANISM OF MICROTUBULE ASSEMBLY AND MITOSIS.....	5K04 GM00063-02
WORCEL, ABRAHAM.....	STRUCTURE OF PROKARYOTIC AND EUKARYOTIC CHROMOSOMES.....	5K04 GM00101-02
<b>NEW MEXICO</b>		
<b>ALBUQUERQUE</b>		
UNIVERSITY OF NEW MEXICO      ZIP CODE 87131		
KELLEY, ROBERT O.....	GROWTH AND REGULATION OF HUMAN LIMB MESENCHYMA.....	5K04 HD70407-05
MESSNER, RONALD P.....	LYMPHOCYTE RECEPTORS AND ANTIGENS IN COLLAGEN DISEASE.....	5K04 AM70301-05
SCHMIDT-NOWARA, WOLFGANG W.....	PULMONARY ACADEMIC AWARD.....	2K07 HL70833-03
VANDER JAGT, DAVID L.....	ROLE OF GLYOXALASE AND GLUTATHIONE IN CARCINOGENESIS.....	5K04 CA70939-03
WATERMAN, ROBERT E.....	NORMAL AND CLEFT PALATE DEVELOPMENT IN MAMMALS.....	5K04 DE00013-02
<b>UNIVERSITY PARK</b>		
NEW MEXICO STATE UNIVERSITY MAIN CAMPUS      ZIP CODE 88001		
DARNALL, DENNIS W.....	NEW PROBES OF ENZYME AND PROTEIN STRUCTURE.....	5K04 GM32014-05
<b>NEW YORK</b>		
<b>ALBANY</b>		
STATE UNIVERSITY OF NEW YORK AT ALBANY      ZIP CODE 12222		
EDWARDS, DAVID L.....	REGULATION OF MITOCHONDRIAL MEMBRANE ASSEMBLY.....	5K04 GM00018-02
STRATTON, HOWARD H.....	CLINICAL MODELING BY PROB FUNCTIONS OF MARKOV CHAIN.....	5K04 GM00082-02
UNION COLLEGE AND UNIVERSITY SYSTEM-ALBANY MEDICAL COLLEGE      ZIP CODE 12208		
ABRAHAM, RAJENDER.....	LYSOSOMAL CHANGES AS MANIFESTATIONS OF TOXIC CELL DAMAGE.....	5K04 ES70607-04

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>NEW YORK—Continued</b>		
<b>BUFFALO</b>		
<b>CHILDREN'S HOSPITAL ZIP CODE 14222</b>		
RATTAZI, MARIO C.....	LYSOSOMAL ACID HYDROLASE DEFICIENCIES IN MAN.....	5K04 GM70638-04
<b>NEW YORK STATE DEPARTMENT OF HEALTH—ROSWELL PARK MEMORIAL INSTITUTE ZIP CODE 14263</b>		
HUI, SEK W.....	ELECTRON DIFFRACTION OF CANCER CELL MEMBRANES.....	5K04 CA00084-02
<b>STATE UNIVERSITY OF NEW YORK AT BUFFALO ZIP CODE 14214</b>		
APICELLA, MICHAEL A.....	NEISSERIAL ANTIGENS.....	5K04 AI70747-03
EDWARDS, JOHN A.....	INHERITED HYPOCHROMIC ANEMIAS & FAMILIAL HYPERLIPEMIA.....	5K04 GM70556-04
FOURTNER, CHARLES R.....	NEURAL CONTROL OF RHYTHMIC BEHAVIOR PATTERNS.....	1K04 NS00141-01
LI, HSUEH-JEI.....	PROTEIN-DNA INTERACTION AND CHROMATIN STRUCTURE.....	1K04 GM00262-01
REED, MICHAEL J.....	ROLE OF CELL-MEDIATED IMMUNITY IN PERIODONTAL DISEASE.....	5K04 DE70859-02
<b>COLD SPRING HARBOR</b>		
<b>COLD SPRING HARBOR LABORATORY ZIP CODE 11724</b>		
BUKHARI, AHMAD I.....	THE LIFE CYCLE OF MUTATOR PHAGE MU.....	5K04 GM00127-02
<b>ITHACA</b>		
<b>CORNELL UNIVERSITY ZIP CODE 14850</b>		
CORRADINO, ROBERT A.....	ORGAN CULTURED DUODENUM: CA ABSORPTIVE MECHANISM, ETC.....	5K04 AM00115-02
ELSON, ELLIOT L.....	CONFORMATIONAL TRANSITIONS OF BIOLOGICAL POLYMERS.....	5K04 GM70499-05
LEVITSKY, DAVID A.....	NUTRITION AND BEHAVIOR.....	5K04 HD70510-03
ROBERTS, JEFFREY W.....	GENE CONTROL IN INFECTION & LYSGENY BY PHAGE LAMBDA.....	1K04 GM00185-01
WRIGHT, LEMUEL D.....	NEW BIOLOGICALLY ACTIVE COMPOUNDS.....	5K06 AM16612-14
<b>MANHASSET</b>		
<b>NORTH SHORE UNIVERSITY HOSPITAL ZIP CODE 11030</b>		
BIRNBAUM, GARY.....	STUDIES ON MULTIPLE SCLEROSIS.....	5K04 NS00099-02
<b>NEW YORK</b>		
<b>AMERICAN HEALTH FOUNDATION ZIP CODE 10019</b>		
HECHT, STEPHEN S.....	ISOLATION AND CHEMISTRY OF ENVIRONMENTAL CARCINOGENS.....	5K04 CA00124-02
<b>CITY UNIVERSITY OF NEW YORK—HUNTER COLLEGE ZIP CODE 10021</b>		
BEVERIDGE, DAVID L.....	QUANTUM BIOCHEMISTRY.....	5K04 GM21281-05
CHAPPELL, RICHARD L.....	STUDY OF NEURAL INTERACTIONS OF THE RETINA.....	1K04 EY00040-01
<b>CITY UNIVERSITY OF NEW YORK—MOUNT SINAI SCHOOL OF MEDICINE ZIP CODE 10029</b>		
AARONSON, ROBERT P.....	STRUCTURE AND FUNCTION OF THE NUCLEAR ENVELOPE.....	1K04 GM00278-01
GERBER, MICHAEL A.....	ANTIGENIC STRUCTURE AND MORPHOLOGY OF HB AG.....	5K04 AI00035-02
KEUSCH, GERALD T.....	SIGELLOSIS: EXOTOXIN, PATHOGENESIS & TOXOID VACCINE.....	5K04 AI70847-03
KIRCHBERGER, MADELEINE A.....	REGULATION OF CARDIAC SR CA20-PUMP BY PROTEIN KINASE.....	5K04 HL00053-02
KRULWICH, TERRY A.....	TRANSPORT IN MEMBRANE VESICLES AND RELATED METABOLISM.....	5K04 GM00020-02
MINDEL, JOEL S.....	CHOLINERGIC SYSTEM OF THE EYE.....	5K04 EY70959-02
RAYFIELD, ELLIOT J.....	CARBOHYDRATE METABOLISM—INFECTION INTERRELATIONSHIPS.....	5K04 AM00089-02
TAUB, ROBERT N.....	IMMUNOTHERAPY OF HUMAN LEUKEMIA.....	5K04 CA00034-02
WYSSBROD, HERMAN R.....	BIOFUNCTIONAL CONFORMATIONS OF IONOPHORES & HORMONES.....	5K04 GM70305-05
<b>CITY UNIVERSITY OF NEW YORK—RICHMOND COLLEGE ZIP CODE 10301</b>		
NAIDER, FRED R.....	PEPTIDE TRANSPORT IN MICROORGANISMS AND MAMMALIAN CELLS.....	5K04 GM00025-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>NEW YORK—Continued</b>		
<b>COLUMBIA UNIVERSITY</b>	<b>ZIP CODE 10027</b>	
BENESCH, REINHOLD	RELATION BETWEEN STRUCTURE AND FUNCTION IN PROTEINS	5K06 HL01137-15
BIGGER, JOHN T, JR	CARDIAC ARRHYTHMIAS AND ANTIARRHYTHMIC DRUGS	5K04 HL70204-05
BRASEL, JO ANNE	NUTRITION AND CELL GROWTH	5K04 HD70760-03
COLE, PATRICIA E	BIOPHYSICAL STUDIES OF GENE EXPRESSION	1K04 GM00209-01
DESPOMMIER, DICKSON D	CHARACTERIZATION OF FUNCTIONAL ANTIGENS OF T. SPIRALIS	5K04 AI70255-05
FENOGLIO, JOHN J, JR	GENESIS OF ARRHYTHMIAS FOLLOWING MYOCARDIAL INFARCTION	1K04 HL00185-01
FISCHBARG, JORGE	WATER & ELECTROLYTE TRANSPORT BY CORNEAL ENDOTHELIUM	5K04 EY00006-02
HARVEY, REJANE M	CONTROL OF PULMONARY CIRCULATION	5K06 HL16603-14
HENDERSON, ANN S	HUMAN GENE SITE LOCALIZATION USING HYBRIDIZATION IN SITU	3K04 GM00017-01S1
HENDERSON, ANN S	HUMAN GENE SITE LOCALIZATION USING HYBRIDIZATION IN SITU	5K04 GM00017-02
HOCHBERG, RICHARD B	MECHANISMS IN STEROID HORMONE BIOSYNTHESIS	1K04 CA00174-01
HOLLYFIELD, JOE G	DEVELOPMENT OF THE RETINA AND PIGMENT EPITHELIUM	5K04 EY00023-02
JAN, KUNG-MING	RHEOLOGY OF RBC INTERACTION IN HEALTH AND DISEASE	5K04 HL00036-02
KILCOYNE, MARGARET M	ADOLESCENT HYPERTENSION—NATURAL HISTORY AND DYNAMICS	1K04 HL00183-01
KIRSTEN, EDWARD B	MOTION-MODULATED NEURONS—PHYSIOLOGY & PHARMACOLOGY	5K04 GM70179-05
KOOPMANS, HENRY S	THE REGULATION OF FOOD INTAKE AND BODY FAT	1K04 AM00198-01
LO GERFO, PAUL	IMMUNOLOGY OF BREAST NEOPLASIA IN MICE AND WOMEN	1K04 CA00192-01
ROSSO, PEDRO P	MATERNAL MALNUTRITION AND TRANSFER OF NUTRIENTS	5K04 HD00116-02
THOMPSON, ELIZABETH B	MORPHOLOGY OF IDENTIFIED SYNAPSES	5K04 NS00122-02
TOWNDORF, JUERGEN	PHYSIOLOGY OF THE EAR	5K06 NS21691-13
WILNER, GEORGE D	BASIC MECHANISMS OF INITIATION OF THROMBOSIS	5K04 HL70447-04
ZIMMERMAN, EARL A	STUDIES IN NEUROENDOCRINOLOGY	5K07 NS11008-05
<b>CORNELL UNIVERSITY MEDICAL CENTER</b>	<b>ZIP CODE 10021</b>	
GARDNER, DANIEL	SYNAPTIC ORGANIZATION OF IDENTIFIED NEURAL NETWORKS	5K04 NS00003-02
JAFFE, ERIC A	BIOLOGY OF ENDOTHELIAL CELLS	1K04 HL00237-01
JONES, THOMAS C	MECHANISMS OF MICROBIAL SURVIVAL IN PHAGOCYtic CELLS	5K04 AI70754-03
KING, THOMAS K	PULMONARY ACADEMIC AWARD	5K07 HL70357-05
KRAUSS, ALFRED N	RESPIRATORY CHEMOSENSITIVITY IN PREMATURE INFANTS	5K04 HD70471-05
NATHAN, MARC A	A MODEL OF SUSTAINED ARTERIAL HYPERTENSION	1K04 HL00222-01
PETERSON, RALPH E	METABOLISM AND REGULATION OF ADRENOCORTICAL SECRETIONS	5K06 AM14241-15
WEKSLER, MARC E	LYMPHOBLAST-ASSOCIATED ANTIGENS	5K04 CA32102-03
<b>FORDHAM UNIVERSITY</b>	<b>ZIP CODE 10458</b>	
WEINREB, STEVEN M	TOTAL SYNTHESIS OF THE CYTOCHALASINS	1K04 HL00176-01
WEINREB, STEVEN M	TOTAL SYNTHESIS OF THE CYTOCHALASINS	5K04 HL00176-02
<b>HOSPITAL FOR SPECIAL SURGERY</b>	<b>ZIP CODE 10021</b>	
BOSKEY, ADELE I	MECHANISM OF TOOTH & BONE MINERALIZATION	5K04 DE00002-02
<b>MONTEFIORE HOSPITAL AND MEDICAL CENTER</b>	<b>ZIP CODE 10467</b>	
DILLMAN, WOLFGANG H	CARDIAC EFFECTS OF THYROID HORMONES	1K04 HL00159-01
SURKS, MARTIN I	THYROID HORMONE ACTION & CONTROL OF PITUITARY NEOPLASIA	5K04 AM19502-04
<b>NEW YORK CITY HEALTH SERVICES ADMINISTRATION—PUBLIC HEALTH RESEARCH INSTITUTE OF CITY OF N Y</b>	<b>ZIP CODE 10016</b>	
DAY, LOREN A	BIOCHEMISTRY AND BIOPHYSICS OF NUCLEOPROTEINS	5K04 GM70363-05
DUBNAU, DAVID A	MECHANISMS OF RECOMBINATION IN BACILLUS SUBTILIS	5K04 GM08837-05
MINDICH, LEONARD E	CELL MEMBRANE SYNTHESIS IN THE CONTROL OF GROWTH	5K04 GM70474-05
OISHI, MICHIO	RNA SYNTHESIS, RECOMBINATION & DNA REPLICATION	5K04 GM70538-04
OISHI, MICHIO	RNA SYNTHESIS, RECOMBINATION & DNA REPLICATION	5K04 GM70538-05
SMITH, ISSAR	GENETICS OF ANTIBIOTIC RESISTANCE AND RIBOSOMES	5K04 GM07871-05
<b>NEW YORK MEDICAL COLLEGE</b>	<b>ZIP CODE 10029</b>	
LENER, ROBERT G	LEUKOCYTES IN BLOOD COAGULATION AND THROMBOSIS	5K04 HL70496-05
THEIS, GAIL A	MAREK'S DISEASE: AN IMMUNOGENETIC STUDY	5K04 CA70812-03
THURSH, DONALD R	CIRCULATING LYMPHOID CELLS IN SPECIFIC IMMUNITY	5K04 AI70789-03



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>NEW YORK—Continued</b>		
<b>NEW YORK UNIVERSITY</b>	<b>ZIP CODE 10003</b>	
BASCH, ROSS S	REGULATORY MECHANISMS IN EMBRYONIC DEVELOPMENT	5K03 HD34968-10
BERNHEIMER, ALAN W	STAPHYLOCOCCAL AND STREPTOCOCCAL PROTEINS	5K06 AI14198-15
FINKELSTEIN, MARTIN S	VIRAL RESISTANCE TO PLANT LECTINS	5K04 AI36028-03
FREEDMAN, MICHAEL L	TRANSLATIONAL CONTROL OF HUMAN HEMOGLOBIN SYNTHESIS	5K04 AM49358-03
GARDNER, ESTHER P	NEURAL MECHANISMS OF CUTANEOUS SPATIAL INTEGRATION	1K04 NS00142-01
GUNNISON, ALBERT F	MAMMALIAN TOXICOLOGY OF SO <sub>2</sub> AND SULFITE SALTS	3K04 ES00005-01S1
GUNNISON, ALBERT F	MAMMALIAN TOXICOLOGY OF SO <sub>2</sub> AND SULFITE SALTS	5K04 ES00005-02
HIRSCHHORN, ROCHELLE	GENETIC STUDIES IN ACTIVATED LYMPHOCYTES	5K04 AI70254-05
KREIBICH, GERT	ORGANIZATION AND BIOSYNTHESIS OF ER MEMBRANE PROTEINS	1K04 GM00232-01
MAAS, WERNER K	ENZYME REPRESSION, GENETIC RECOMBIN., EPISOMES PERMEASES	5K06 GM15129-13
MEISS, HARRIET K	ISOLATION AND ANALYSIS OF TS DNA MUTANTS OF BHK CELLS	5K04 CA00020-02
PHILLIPS-QUAGLIATA, JULIA	FACTORS AFFECTING IMMUNE RESPONSIVENESS AND TOLERANCE	5K04 AI70653-04
SHAPIRO, ROBERT	CHEMICAL REACTIONS OF DNA AND RNA	5K04 GM50188-05
TSAI, JIR-SHIONG	THYROID HORMONE EFFECTS ON THE HEART	1K04 HL00178-01
TSAI, JIR-SHIONG	THYROID HORMONE EFFECTS ON THE HEART	5K04 HL00178-02
<b>POLYTECHNIC INSTITUTE OF NEW YORK</b>	<b>ZIP CODE 11201</b>	
TOONEY, NANCY M	FIBRINOGEN: STRUCTURE AND MOLECULAR INTERACTIONS	5K04 HL00062-02
<b>ROCKEFELLER UNIVERSITY</b>	<b>ZIP CODE 10021</b>	
ALVARES, ALVITO P	TOXICOLOGY OF ENVIRONMENTAL POLLUTANTS	5K04 ES00010-02
BIANCO, CELSO	TUMOR RECOGNITION BY NORMAL AND ACTIVATED MACROPHAGES	1K04 CA00222-01
CHUA, NAM-HAI	STRUCTURE AND BIOGENESIS OF THYLAKOID MEMBRANE	1K04 GM00223-01
GILULA, NORTON B	CELL MEMBRANE INTERACTIONS AND COMMUNICATION	5K04 HL00110-02
GOLDBERG, ALLAN R	RSV FUNCTIONS INVOLVED IN TRANSFORMATION	5K04 CA70992-03
<b>ROOSEVELT HOSPITAL</b>	<b>ZIP CODE 10019</b>	
LEGATO, MARIANNE J	MAMMALIAN MYOCARDIAL CELL ULTRASTRUCTURE AND FUNCTION	5K04 HL70406-05
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH</b>	<b>ZIP CODE 10021</b>	
ARTZT, KAREN	TERATOCARCINOMA AND EMBRYONAL TUMORS: SURFACE ANTIGENS	1K04 CA00276-01
MARQUARDT, HANS W	CHEMICALLY INDUCED MALIGNANT TRANSFORMATION IN VITRO	5K04 CA00127-02
<b>YESHIVA UNIVERSITY</b>	<b>ZIP CODE 10033</b>	
BREWER, CURTIS F	NMR STUDIES OF HAPTEN-ANTIBODY INTERACTIONS	5K04 CA00184-02
DAS, KIRON M	PATHOGENESIS OF INFLAMMATORY BOWEL DISEASE	1K08 AM00237-01
ENGEL, JEROME, JR	NEUROPHYSIOLOGICAL CORRELATES OF NEW BEHAVIOR	5K04 NS70209-05
FEIN, JACK M	OXIDATIVE METABOLISM IN CEREBRAL ISCHEMIA	1K04 NS00198-01
FROSOLONO, MICHAEL F	BIOCHEMISTRY OF PULMONARY SURFACTANT SYSTEM	5K04 HL00105-02
GASKIN, FELICIA A	NEUROTUBULE, NEUROFILAMENT, & TWISTED TUBULE ASSEMBLY	1K04 AG00002-01
GASKIN, FELICIA A	NEUROTUBULE, NEUROFILAMENT, & TWISTED TUBULE ASSEMBLY	5K04 AG00002-02
HENRY, SUSAN A	GENETICS AND DEVELOPMENT OF YEAST MEMBRANE MUTANTS	5K04 GM00024-02
HIGHSTEIN, STEPHEN M	OCULOMOTOR SYNAPTIC LINKAGE CNS SYNAPTIC TRANSMISSION	5K04 EY00003-02
HORWITZ, MARSHALL S	VIRAL DNA SYNTHESIS IN INFECTED AND TRANSFORMED CELLS	5K04 CA35554-05
KEISER, HAROLD D	IMMUNOCHEMISTRY OF CARTILAGE PROTEOGLYCAN	5K04 AM00024-02
LEE, KWANG-SUN	PLASMA FREE FATTY ACIDS AND BILIRUBIN TOXICITY	1K08 AM00219-01
LEVENSON, STANLEY M	PROBLEMS OF SURGICAL METABOLISM	5K06 GM14208-15
LISTOWSKY, IRVING	CONFORMATION OF FERRITIN AND SUGARS	5K04 GM19958-05
NOVIKOFF, ALEX B	BIOCHEMICAL CYTOLOGY OF NORMAL AND MALIGNANT CELLS	5K06 CA14923-15
RAINE, CEDRIC S	PATHOGENESIS OF CNS & PNS DEMYELINATING LESIONS	5K04 NS70265-05
REICHEL, JOSEPH	PULMONARY ACADEMIC AWARD	5K07 HL70076-05
RUBIN, CHARLES S	CYCLOC AMP AND PROTEIN KINASES IN CELL REGULATION	1K04 AM00190-01
RUBIN, MERYL S	REGULATION OF MEMBRANE PERMEABILITY: MOLECULAR BASIS	5K04 AM00010-02
SHAFRITZ, DAVID A	PROTEIN SYNTHESIS IN NORMAL AND REGENERATING LIVER	5K04 AM00022-02
SHIN, SEUNG-IL	SOMATIC MUTATIONS: GENETICS OF CELL TRANSFORMATION	1K04 CA00159-01
SOEIRO, RUY	RNA IN HUMAN CANCER AND IN FLV INFECTED CELLS	5K04 CA70580-04
WITTENBERG, JONATHAN B	OXYGEN METABOLISM	5K06 HL00733-13
WOLINSKY, HARVEY	ARTERIAL STRUCTURE AND FUNCTION IN HEALTH AND DISEASE	5K04 HL70243-05

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>NEW YORK—Continued</b>		
WOLKOFF, ALLAN W.	HEPATIC ORGANIC ANION TRANSPORT	1K08 AM00236-01
WU, CHENG-WEN	REGULATION AND MECHANISM OF GENE TRANSCRIPTION	5K04 GM70253-05
<b>ROCHESTER</b>		
UNIVERSITY OF ROCHESTER      ZIP CODE 14627		
ABRAHAM, GEORGE N.	SUPPORT FOR IMPROVEMENT OF ALLERGIC-DISEASE CURRICULUM	5K07 AI70834-03
BERNHARD, WILLIAM A.	THE EFFECTS OF IONIZING RADIATION ON NUCLEIC ACIDS	5K04 GM70337-05
BRAND, JOHN S.	SEPARATION & CHARACTERIZATION OF ISOLATED BONE CELLS	5K04 AM00101-02
CAMPBELL, ROBERT G.	ACADEMIC CAREER DEVELOPMENT AWARD IN NUTRITION	5K07 AM70290-05
COHEN, NICHOLAS	LYMPHOCYTE PHYLOGENY—DIVERSE REACTIONS TO H-ANTIGENS	5K04 AI70736-03
CONNETT, RICHARD J.	CONTROL OF ENERGY TURNOVER IN SKELETAL MUSCLE	1K04 AM00155-01
FORBES, GILBERT B.	CHEMICAL STUDIES IN GROWTH AND DEVELOPMENT	5K06 HD18454-15
GOROVSKY, MARTIN A.	ORGANIZATION AND FUNCTION OF THE EUKARYOTIC GENOME	1K04 GM00238-01
HALL, WILLIAM J.	PULMONARY ACADEMIC AWARD	5K07 HL70822-03
HATTMAN, STANLEY M.	CONTROL MECHANISMS IN PHAGE-HOST CELL INTERACTIONS	5K04 AI28022-05
HINKLE, DAVID C.	ENZYMATIC MECHANISM OF DNA REPLICATION	1K04 GM00221-01
KIMMICH, GEORGE A.	MECHANISM OF NAO-DEPENDENT SUGAR & AMINO ACID TRANSPORT	5K04 AM70166-05
KIRKPATRICK, FRANCIS H, JR	RED CELL DEFORMABILITY: ROLE OF SPECTRIN AND ACTIN	1K04 HL00146-01
KIRKPATRICK, FRANCIS H, JR	RED CELL DEFORMABILITY: ROLE OF SPECTRIN AND ACTIN	5K04 HL00146-02
KRUGH, THOMAS R.	PHYSICOCHEMICAL STUDIES OF INTERCALATION DRUGS	1K04 CA00257-01
LANGE, CHRISTOPHER S.	MOLECULAR BASIS FOR REPAIR OF CELLULAR RADIATION DAMAGE	5K04 CA70299-05
MERIN, ROBERT G.	ANESTHETIC EFFECTS ON HEART AND METABOLISM	5K04 HL31752-05
POLAND, ALAN P.	TOXICITY OF 2,3,7,8-TETROCHLORODIBENZO-P-DIOXIN	5K04 ES00017-02
PRAKASH, LOUISE	REPAIR OF DAMAGED DNA AND MUTAGENESIS IN YEAST	5K04 GM00004-02
SCHNEIDER, MARTIN F.	CALCIUM CONCENTRATION CHANGES IN MUSCLE FIBERS	5K04 NS00078-02
SEGEL, GEORGE B.	PHYSIOLOGY AND CELL DIVISION IN NORMAL & LEUKEMIC CELLS	5K04 CA00019-02
TABER, HARRY W.	CONTROL OF BACTERIAL MEMBRANE SYNTHESIS	5K04 AI70655-03
WAAG, ROBERT C.	COMPUTER-BASED CARDIAC ULTRASOUND IMAGING	5K04 HL00067-02
WILHELM, JAMES M.	STUDIES OF VIRUS REPLICATION AND TRANSFORMATION	5K04 CA00061-02
<b>SARANAC LAKE</b>		
TRUDEAU INSTITUTE      ZIP CODE 12983		
CARTER, PHILIP B.	HOST RESPONSE TO INTESTINAL FLORA	5K04 AM00073-02
<b>STONY BROOK</b>		
STATE UNIVERSITY OF NEW YORK AT STONY BROOK      ZIP CODE 11794		
DUDOCK, BERNARD S.	TRNA: SYNTHETASE RECOGNITION; ROLE IN DEVELOPMENT	5K04 CA70681-04
KOEHN, RICHARD K.	BIOCHEMICAL STUDIES OF POLYMORPHIC ENZYME SYSTEMS	5K04 GM28963-05
SIMON, SANFORD R.	CONFORMATION STUDIES ON MODIFIED HEMOGLOBINS	1K04 HL00088-01
SIMON, SANFORD R.	CONFORMATION STUDIES ON MODIFIED HEMOGLOBINS	5K04 HL00088-02
<b>SYRACUSE</b>		
SYRACUSE UNIVERSITY      ZIP CODE 13210		
FONDY, THOMAS P.	GLYCEROL-P DEHYDROGENASE IN DIFFERENTIATION AND CANCER	5K04 CA70332-05
<b>TROY</b>		
RENSSELAER POLYTECHNIC INSTITUTE      ZIP CODE 12181		
KRAUSE, SONJA	ELECTRO-OPTIC STUDIES OF BIOPOLYMERS	5K04 AM00048-03

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>NORTH CAROLINA</b>		
<b>CHAPEL HILL</b>		
UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL ZIP CODE 27514		
BASEMAN, JOEL B.	METABOLISM OF TREPONEMES: PATHOGENESIS OF RESP DISEASE	1K04 AI00178-01
BRIGGAMAN, ROBERT A.	EPIDERMAL-DERMAL JUNCTION AND BULLOUS DISEASES	5K04 AM00119-02
BUTLER, THOMAS C.	STUDIES OF DRUG METABOLISM AND OF INTRACELLULAR PH.	5K06 GM19429-13
BUTLER, THOMAS C.	STUDIES OF DRUG METABOLISM AND OF INTRACELLULAR PH.	5K06 GM19429-14
COFFEY, JAMES C, JR.	ACTION OF ANDROGEN ON SUBMAXILLARY GLAND FUNCTION	5K04 DE00014-02
COOPER, CARY W.	SECRETION AND ACTION OF HORMONES IN CALCIUM METABOLISM	5K04 AM50293-05
COOPER, HERBERT A.	HEMOPHILIA AND VON WILLEBRAND'S DISEASE	5K04 HL00081-02
DREYER, DUANE A.	ANATOMOPHYSIOLOGICAL BASES OF OROFACIAL SENSATION	5K04 DE00011-02
EDGELL, MARSHALL H.	EUKARYOTIC GENE ORGANIZATION	5K04 GM00126-02
HARRISON, JOHN H.	STUDY OF MALATE DEHYDROGENASE FROM PORCINE HEART	5K04 HL70728-03
HEIZER, WILLIAM D.	INTESTINAL PEPTIDASES: PROPERTIES AND FUNCTIONS	5K04 AM70338-05
HOLBROOK, DAVID J, JR.	PHARMACOLOGY & TOXICOLOGY OF AMINOQUINOLINES	5K04 GM70114-04
HOLBROOK, DAVID J, JR.	PHARMACOLOGY & TOXICOLOGY OF AMINOQUINOLINES	5K04 GM70114-05
HUTCHISON, CLYDE A, III.	PHAGE PHI-X-174: GENETICS AND DNA CHEMISTRY	5K04 AI70604-04
KAER, ENID R.	NEURAL AND VENTILATORY RESPONSES TO MECHANICAL LOADS	1K04 HL00218-01
KUPPER, LAWRENCE L.	STATISTICAL MODELS FOR ENVIRONMENTAL HEALTH DATA	5K04 ES00003-02
MANN, JOHN D.	METABOLIC ENCEPHALOPATHY BRAIN BARRIER SYSTEMS—UREMIA	1K07 NS00244-01
PIMMEL, RUSSELL L.	ANALYSIS OF RESPIRATORY MECHANICS AND SOUNDS	1K04 HL00207-01
POWELL, DON W.	MECHANISM OF INTESTINAL SECRETION	5K04 AM70454-04
RHEINGOLD, HARRIET L.	SOCIAL AND EXPLORATORY BEHAVIOR IN THE HUMAN INFANT	5K06 HD23620-13
STAFFORD, DARREL W.	CONTROL OF RRNA TRANSCRIPTION	5K04 GM70310-05
VAN WYK, JUDSON J.	ENDOCRINOLOGIC AND METABOLIC PROBLEMS IN CHILDREN	5K06 AM14115-15
<b>DURHAM</b>		
DUKE UNIVERSITY ZIP CODE 27706		
ADELMAN, MARK R.	BIOLOGICAL MOTILITY AND RIBOSOME-MEMBRANE INTERACTION	5K04 GM70581-04
AMOS, D BERNARD	FUNDAMENTALS OF THE MECHANISMS OF HOMOGRAFT IMMUNITY	5K06 AI18399-15
ANDERSON, ROBERT W.	THE PATHOPHYSIOLOGY OF THE MICROCIRCULATION IN SHOCK	5K04 HL70455-05
BIGNER, DARELL D.	NEUROPATHOLOGY—IMMUNOLOGY AND VIROLOGY	5K07 NS11063-03
BOYNTON, JOHN E.	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION	5K04 GM70453-04
BOYNTON, JOHN E.	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION	5K04 GM70453-05
BUCKLEY, REBECCA H.	ALLERGIC DISEASES ACADEMIC AWARD	5K07 AI70830-03
CARTMILL, MATTHEW	COMPARATIVE ANATOMY OF ANTERIOR CAROTID ARTERY	5K04 HD00063-02
CORLESS, JOSEPH M.	X-RAY, EM AND FREEZE-FRACTURE STUDIES ON DISK MEMBRANES	1K04 EY00016-01
COSTELLO, MARTIN J, III.	X-RAY AND FREEZE-FRACTURE STUDIES ON DISK MEMBRANES	5K07 EY00035-02
ERICKSON, HAROLD P.	COMPUTER PROCESSING SYSTEMS FOR ELECTRON MICROSCOPY	5K04 GM23445-05
EVANS, EVAN A.	MATERIAL BEHAVIOR AND VIABILITY OF PLASMA MEMBRANES	5K04 HL00063-02
GILLHAM, NICHOLAS W.	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION	5K04 GM70437-04
GILLHAM, NICHOLAS W.	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION	5K04 GM70437-05
GOLDSMITH, LOWELL A.	STRUCTURAL PROTEINS IN GENETIC DEFECTS OF EPIDERMIS	5K04 AM00008-02
HACKEL, DONALD B.	PATHOLOGIC, PHYSIOLOGIC, AND METABOLIC STUDIES OF HEART	5K06 HL14188-15
HANDWERGER, STUART	THE CHEMISTRY AND PHYSIOLOGY OF PLACENTAL LACTOGEN	5K04 HD00065-02
HEYMAN, ALBERT	CIRCULATORY CHANGES IN CEREBROVASCULAR DISEASE	5K06 NS16677-14
HYLANDER, WILLIAM L.	BIOMECHANICS OF THE PRIMATE CRANIOFACIAL REGION	1K04 DE00027-01
LEIS, JONATHAN P.	MECHANISM OF RNA TUMOR VIRUS REPLICATION	5K04 CA70876-03
RICHARDSON, DAVID C.	X-RAY CRYSTALLOGRAPHY OF SUPEROXIDE DISMUTASES	5K04 GM00041-02
ROSES, ALLEN D.	MEMBRANE BIOCHEMICAL STUDIES OF MUSCULAR DYSTROPHY	1K04 NS00183-01
SCHMIDT-NIELSEN, KNUT	COMP. PHYSIOLOGY OF HEAT, WATER METABOLISM, & EXCRETION	5K06 GM21522-13
SCOTT, DAVID W.	MANIPULATION OF THE IMMUNE RESPONSE AND TOLERANCE	5K04 AI00093-02
STARMER, CHARLES F, JR	COMPUTER RECOGNITION OF PATTERNS IN HEART DISEASE	5K04 HL70102-05
TANFORD, CHARLES	THE STRUCTURE OF PROTEINS	5K06 GM14222-15
TOURIAN, ARA Y.	MOLECULAR DEVELOPMENT OF PHENYLALANINE HYDROXYLASE	5K04 AM70377-04
TOURIAN, ARA Y.	MOLECULAR DEVELOPMENT OF PHENYLALANINE HYDROXYLASE	5K04 AM70377-05
ZWEERINK, HENDRIK J.	MORPHOGENESIS OF REOVIRUS AND THE AGENT OF SPSE	5K04 NS00086-02



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>NORTH CAROLINA—Continued</b>		
<b>WINSTON-SALEM</b>		
WAKE FOREST UNIVERSITY	ZIP CODE 27109	
MC CALL, CHARLES E.	FUNCTIONAL AND METABOLIC PROPERTIES OF TOXIC NEUTROPHILS.	5K04 AI70767-03
WAITE, MOSELEY.	METABOLISM OF LIVER MEMBRANE PHOSPHOLIPIDS	5K04 AM17392-04
<b>OHIO</b>		
<b>CINCINNATI</b>		
UNIVERSITY OF CINCINNATI	ZIP CODE 45221	
ARMENTROUT, RICHARD W.	SELECTIVE REPLICATION OF PARVOVIRUS IN TUMOR CELLS.	5K04 CA00134-02
CORBIN, RICHARD P.	PULMONARY ACADEMIC AWARD	5K07 HL70068-03
FREISHEIM, JAMES H.	STRUCTURE-FUNCTION STUDIES OF DIHYDROFOLATE REDUCTASE	5K04 CA70449-05
KNOWLES, HARVEY C, JR.	CARBOHYDRATES & MINERAL METABOLISM GENERAL STUDIES	5K06 AM02364-15
<b>CLEVELAND</b>		
CASE WESTERN RESERVE UNIVERSITY	ZIP CODE 44106	
ALLEY, KEITH E.	ONTOGENESIS OF BRAIN STEM VISUO-MOTOR SYSTEMS	1K04 NS00147-01
BLACKWELL, JOHN	STRUCTURE AND INTERACTIONS OF MACROMOLECULES.	5K04 AM70642-04
CULP, LLOYD A.	SURFACE PROPERTIES OF CANCER AND REVERTANT CELLS.	5K04 CA70709-03
FAGAN, JOSEPH F, III	INFANTS' RECOGNITION MEMORY FOR VISUAL STIMULI	5K04 HD70144-05
FANGER, MICHAEL W.	STUDIES OF LYMPHOCYTE TRANSFORMATION.	3K04 AI25732-05S1
GOLDTHWAIT, DAVID A.	STUDIES ON NUCLEIC ACIDS.	5K06 GM21444-13
HARPST, JERRY A.	STRUCTURE AND FUNCTION OF BIOLOGICAL MACROMOLECULES	5K03 GM14252-10
HARRIS, JOHN W.	A STUDY OF NUTRITIONAL AND HEMOLYTIC ANEMIAS.	5K06 AM14370-15
HIRSCHMANN, HANS	CHEMISTRY AND METABOLISM OF STEROIDS	5K06 AM14367-15
HOPFER, ULRICH.	INTESTINAL NUTRIENT AND ELECTROLYTE TRANSPORT	1K04 AM00199-01
MILLER, CHARLES G.	BIOCHEMICAL AND GENETIC STUDIES OF HYDROLYTIC ENZYMES	5K04 GM70321-05
NIEWOEHNER, DENNIS E.	STRUCTURE & FUNCTION IN EARLY AIRWAYS OBSTRUCTION	5K04 HL00102-02
STUEHR, JOHN E.	METAL ION-ENZYME AND POLYPEPTIDE DYNAMICS	5K04 GM17834-05
<b>COLUMBUS</b>		
OHIO STATE UNIVERSITY	ZIP CODE 43210	
ALTMAN, MICHAEL	PULMONARY ACADEMIC AWARD	5K07 HL00128-02
COPELAND, JAMES C.	CHROMOSOME: REGULATION, ORGANIZATION & FUNCTION	5K04 GM70300-04
GREENBERG, STANLEY	VASCULAR SMOOTH MUSCLE MECHANISMS IN HYPERTENSION	1K04 HL00231-01
KLAPPER, MICHAEL H.	PROTEIN STRUCTURE-FUNCTIONS, PHEROMONES IN LOWER PLANTS.	5K04 GM70711-03
MARZLUF, GEORGE A.	GENE EXPRESSION AND ENZYME SYNTHESIS IN NEUROSPORA	5K04 GM00052-02
ROYER, GARFIELD P.	ENZYME IMMOBILIZATION FOR CONFORMATION CHANGE DETECTION	5K04 GM00051-02
SCOTT, ROY A, III	CONFORMATIONAL STUDY OF POLYPEPTIDES AND NUCLEIC ACID	5K04 GM70742-03
<b>KENT</b>		
KENT STATE UNIVERSITY	ZIP CODE 44240	
ROE, BRUCE A.	THE ROLE OF MODIFIED NUCLEOTIDES IN HUMAN TRNA	1K04 GM00178-01
<b>TOLEDO</b>		
MEDICAL COLLEGE OF OHIO AT TOLEDO	ZIP CODE 43614	
HORTON, FRANK O, III	PULMONARY DISEASES	1K08 HL00244-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>OKLAHOMA</b>		
<b>NORMAN</b>		
UNIVERSITY OF OKLAHOMA      ZIP CODE 73069		
FUNG, BING-MAN.....	THE STATE OF WATER IN BIOLOGICAL SYSTEMS.....	5K04 AM00058-02
<b>OKLAHOMA CITY</b>		
UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER      ZIP CODE 73190		
COALSON, JACQUELINE J.....	PULMONARY ACADEMIC AWARD.....	1K07 HL00250-01
WEST, KELLY M.....	BOOK ON EPIDEMIOLOGY OF DIABETES AND OBESITY.....	1K10 LM00004-01
WEST, KELLY M.....	BOOK ON EPIDEMIOLOGY OF DIABETES AND OBESITY.....	5K10 LM00004-02
<b>STILLWATER</b>		
OKLAHOMA STATE UNIVERSITY      ZIP CODE 74074		
WESTHAUS, PAUL A.....	EFFECTIVE INTERACTIONS IN MOLECULES AND E & M TRANSITION.....	5K04 GM70503-04
WESTHAUS, PAUL A.....	EFFECTIVE INTERACTIONS IN MOLECULES AND E & M TRANSITION.....	5K04 GM70503-05
<b>OREGON</b>		
<b>CORVALLIS</b>		
OREGON STATE HIGHER EDUCATION SYSTEM—OREGON STATE UNIVERSITY      ZIP CODE 97331		
BROWN, LYLE R.....	GENE CONTROL OF MORPHOGENIC PROCESSES.....	5K04 GM70495-04
BROWN, LYLE R.....	GENE CONTROL OF MORPHOGENIC PROCESSES.....	5K04 GM70495-05
SCHAUP, HENRY W.....	MACROMOLECULAR INTERACTIONS WITHIN THE RIBOSOME.....	5K04 GM00073-02
WHITE, JAMES D.....	SYNTHESIS OF MACROLIDE ANTIBIOTICS.....	1K04 AI00180-01
<b>EUGENE</b>		
OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON      ZIP CODE 97403		
GRIFFITH, O HAYES.....	NOVEL METHODS OF PROBING MEMBRANE ARCHITECTURE.....	5K04 CA23359-05
HERSKOWITZ, IRA.....	GENE REGULATORY MECHANISMS IN YEAST AND PHAGE LAMBDA.....	1K04 AI00163-01
KEANA, JOHN F.....	TTX & BATRACHOTOXIN DERIVATIVES AS NEUROLOGICAL PROBES.....	5K04 NS70156-05
MATTHEWS, BRIAN W.....	STRUCTURE AND THERMOSTABILITY OF PROTEINS.....	5K04 GM70585-04
POSTLETHWAIT, JOHN H.....	GENETIC/HORMONE CONTROL OF OOGENESIS & MORPHOGENESIS.....	5K04 GM00119-02
<b>PORTLAND</b>		
GOOD SAMARITAN HOSPITAL AND MEDICAL CENTER      ZIP CODE 97210		
NASHNER, LEWIS M.....	STUDIES ON CONTROL OF HUMAN POSTURE.....	1K04 NS00148-01
OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON HEALTH SCIENCES CENTER      ZIP CODE 97201		
BISSENETTE, JOHN M.....	MECHANISMS OF PLACENTAL TRANSFER.....	1K04 HD00139-01
BUIST, A SONIA.....	SMOKING AND CHRONIC AIRWAYS OBSTRUCTION.....	5K04 HL00115-02
FAUST, CHARLES H, JR.....	GENE EXPRESSION IN NORMAL AND MALIGNANT ANIMAL CELLS.....	5K04 CA00117-02
GREER, MONTE A.....	NEUROENDOCRINOLOGY & THYROID PHYSIOLOGY.....	5K06 AM02122-15
HOLDEN, WILLIAM E.....	MEDICAL SCHOOL PULMONARY TRAINING AWARD.....	1K08 HL00304-01
KABAT, DAVID.....	CONTROL OF GENE EXPRESSION IN DIFFERENTIATING CELLS.....	1K04 CA00264-01
MORSE, STEPHEN A.....	PHYSIOLOGY OF NEISSERIA GONORRHOEA.....	1K04 AI00140-01
TALBOTT, RICHARD E.....	NEURAL MECHANISMS OF POSTURAL CONTROL.....	5K04 NS70021-05
WEITLAUF, HARRY M.....	METABOLIC CHANGES IN THE PREIMPLANTATION EMBRYO.....	5K04 HD00020-02
WELEBER, RICHARD G.....	LINKAGE STUDIES IN OCULAR DISEASE.....	5K07 EY00022-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>PENNSYLVANIA</b>		
<b>HERSHEY</b>		
PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER ZIP CODE 17033		
BARTLETT, GERALD L.....	ANTIGENIC STRENGTH OF NONVIRAL TUMORS.....	5K04 CA70948-03
BULLOCK, LESLIE P.....	ANIMAL MODELS OF GENETIC REPRODUCTIVE ABNORMALITIES.....	1K04 HD00137-01
MC CALLISTER, LAWRENCE P.....	ULTRASTRUCTURAL CORRELATES OF MYOCARDIAL ISCHEMIA.....	1K04 HL00204-01
PAGE, ROBERT B.....	VASCULAR/VENTRICULAR RELATIONS OF THE MEDIAN EMINENCE.....	1K07 NS00179-01
PIERCE, WILLIAM S.....	STUDY OF MECHANICAL CIRCULATORY SUPPORT.....	5K04 HL46573-05
VAN BUSKIRK, E MICHAEL.....	THE VERTEBRATE EYE: STUDIES IN AQUEOUS OUTFLOW.....	1K04 EY00051-01
<b>PHILADELPHIA</b>		
CHILDREN'S HOSPITAL OF PHILADELPHIA ZIP CODE 19104		
COHN, ROBERT M.....	METABOLIC DERANGEMENTS FROM GALACTOSE TOXICITY.....	5K04 HD00008-02
GOLDMAN, ALLEN S.....	CONGENITAL ADRENAL HYPERPLASIA.....	5K03 HD13628-10
PARKS, JOHN S.....	HORMONAL INTERACTIONS WITH CULTURED HUMAN LYMPHOCYTES.....	5K04 AM00005-02
SHAPIRO, BERNARD H.....	PERINATAL IMPRINTING OF BRAIN AND SEXUAL FUNCTION.....	1K04 HD00095-01
HANNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA ZIP CODE 19102		
HOLSCLAW, DOUGLAS S.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70832-03
KALIA, MADHU.....	CENTRAL MECHANISMS IN PULMONARY REFLEXES.....	5K04 HL00103-02
INSTITUTE FOR CANCER RESEARCH ZIP CODE 19111		
GUPTA, RAJ K.....	SPECTRAL STUDIES OF HEME- AND METAL PROTEINS.....	1K04 AM00231-01
MEDICAL COLLEGE OF PENNSYLVANIA ZIP CODE 19129		
LEVINE, RHEA J.....	STUDY OF LIMULUS MUSCLE.....	5K04 NS70476-03
PHILADELPHIA GENERAL HOSPITAL ZIP CODE 19104		
CLARK, CHARLES C.....	STRUCTURE AND BIOSYNTHESIS OF CONNECTIVE TISSUE.....	5K04 AM00063-02
TEMPLE UNIVERSITY ZIP CODE 19122		
COHEN, ALLEN B.....	BIOCHEMICAL MECHANISM OF ALPHA-1-ANTITRYPSIN.....	7K04 HL00153-03
COHEN, ALLEN B.....	BIOCHEMICAL MECHANISM OF ALPHA-1-ANTITRYPSIN.....	5K04 HL00153-04
ERNST, STEPHEN A.....	CYTOCHEMICAL LOCALIZATION OF TRANSPORT ATPASE.....	5K04 GM00072-02
HIGGINS, MICHAEL L.....	CELL DIVISION AND SURFACE GROWTH IN A 'MODEL' SYSTEM.....	5K04 GM70251-05
MILLER, RICHARD L.....	CHEMOTAXIS OF SPERM PRIOR TO FERTILIZATION.....	5K04 HD19931-05
TRUAX, RAYMOND C.....	COMPARATIVE CARDIOLOGY.....	5K06 GM14092-15
WALSH, PETER N.....	PLATELETS IN COAGULATION, HEMOSTASIS AND THROMBOSIS.....	5K04 HL70545-04
THOMAS JEFFERSON UNIVERSITY ZIP CODE 19107		
ATKINSON, G WILLIAM.....	PULMONARY ACADEMIC AWARD.....	5K07 HL47406-05
BULOVA, STEPHEN I.....	CONTROL OF PROTEIN SYNTHESIS IN LYMPHOCYTES.....	5K04 AM70428-04
D'ANGELO, SAVINO A.....	HYPOTHALAMIC-PITUITARY-THYROID GLAND INTERACTION.....	5K06 NS18536-15
LIBERTI, PAUL A.....	PHYSICAL BIOCHEMISTRY OF ANTIGEN-ANTIBODY INTERACTIONS.....	5K04 AI70731-03
WESSON, LAURENCE G.....	RENAL RESEARCH.....	5K06 HL15447-15
UNIVERSITY OF PENNSYLVANIA ZIP CODE 19174		
BLASIE, J KENT.....	STRUCTURE AND FUNCTION OF BIOLOGICAL MEMBRANES.....	5K04 GM29823-05
COHEN, SIDNEY.....	NEUROHUMORAL CONTROL OF GASTROINTESTINAL MOTILITY.....	5K04 AM70576-04
CRANDALL, EDWARD D.....	GAS EXCHANGE AND PH: INTERACTIONS AND IMPORTANCE.....	1K04 HL00134-01
CRANDALL, EDWARD D.....	GAS EXCHANGE AND PH: INTERACTIONS AND IMPORTANCE.....	5K04 HL00134-02
DANELE, RONALD P.....	STRUCTURE AND FUNCTION OF THE LUNG'S IMMUNE SYSTEM.....	1K04 HL00210-01
DONAWICK, WILLIAM J.....	HEART TRANSPLANTATION & ANTILYMPHOCYTIC SERUM TREATMENT.....	5K04 HL70589-04
DROTT, HENRY R.....	OPTICAL AND MAGNETIC STUDIES OF OXIDOREDUCTASES.....	5K04 GM70470-05
DUTTON, PETER L.....	MEMBRANE BIOENERGETICS BY SPECTROPHOTOMETRY.....	5K04 GM70771-03
EISENBERG, ROSELYN J.....	GROWTH AND METABOLISM OF THE ORAL LACTIC ACID BACTERIA.....	5K04 DE70160-05
EPPLE, GISELA M.....	PHEROMONES IN PRIMATE REPRODUCTION AND SOCIAL BEHAVIOR.....	5K04 HD70575-03
HENLE, WERNER.....	ANTIGENIC STRUCTURE HOST-VIRUS INTERACTIONS.....	5K06 AI22683-13



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>PENNSYLVANIA—Continued</b>		
KALLEN, ROLAND G.....	CHARACTERIZATION OF CATALYSIS AND CANCER.....	5K04 CA70487-05
KARUSH, FRED.....	IMMUNOLOGY AND IMMUNOCHEMISTRY.....	5K06 AI14012-15
KAYNE, FREDRICK J.....	MONOVALENT CATION CONTROL OF CELLULAR REACTIONS.....	5K04 GM70249-05
KIM, SEUNG U.....	EXPERIMENTAL NEUROPATHOLOGY IN TISSUE CULTURE.....	1K04 NS00151-01
LEIGH, JOHN S, JR.....	KINETICS AND STRUCTURE IN BIOLOGICAL MEMBRANES.....	5K04 GM00142-02
LISAK, ROBERT P.....	IMMUNOLOGIC STUDIES OF NERVOUS SYSTEMS DISEASE.....	5K07 NS11061-05
MARSHALL, BRYAN E.....	PULMONARY ABNORMALITIES IN ANESTHESIA AND TRAUMA.....	5K04 HL49965-05
MILLER, MICHAEL F.....	ORAL DISEASE LONGITUDINAL STUDY/RECURRENT APHTHOUS ULCER.....	1K04 DE00025-01
NILSSON, ULF R.....	STRUCTURE AND FUNCTION OF HUMAN CS.....	5K04 AI50198-05
REED, GEORGE H.....	STRUCTURE AND DYNAMICS OF ENZYMES BY EPR AND NMR.....	5K04 AM70134-05
SELZER, MICHAEL E.....	SYNAPTIC TRANSMISSION IN LAMPREY CNS.....	5K07 NS11083-02
TROTMAN, BRUCE W.....	UNCONJUGATED HYPERBILIRUBINEMIA IN A MODEL.....	1K08 AM00235-01
VANDERKOOI, JANE M.....	LATERAL DIFFUSION IN MEMBRANES.....	5K04 GM00053-02
WEBER, KARL T.....	MECHANICS OF RIGHT AND LEFT VENTRICULAR CONTRACTION.....	1K04 HL00187-01
<b>WILLS EYE HOSPITAL ZIP CODE 19130</b>		
FELBERG, NORMAN T.....	IMMUNOLOGIC INVESTIGATION OF OCULAR MALIGNANCIES.....	5K07 EY00032-02
<b>WISTAR INSTITUTE OF ANATOMY AND BIOLOGY ZIP CODE 19104</b>		
BORUN, THADDEUS W.....	HISTONE M-RNA TRANSCRIPTION/TRANSITION MECHANISM CONTROL.....	5K04 CA00088-02
CROCE, CARLO M.....	GENETICS OF CELL TRANSFORMATION.....	5K04 CA00143-02
KNOWLES, BARBARA B.....	IMMUNOMANIPULATION OF SOMATIC CELL HYBRIDS.....	5K04 AI00053-02
KRITCHEVSKY, DAVID.....	CHOLESTEROL METABOLISM.....	5K06 HL00734-15
<b>PITTSBURGH</b>		
<b>CARNEGIE-MELLON UNIVERSITY ZIP CODE 15213</b>		
CUSSLER, EDWARD L, JR.....	RATES OF GALLSTONE FORMATION.....	5K04 AM70461-04
CUSSLER, EDWARD L, JR.....	RATES OF GALLSTONE FORMATION.....	5K04 AM70461-05
EVANS, D FENNEL.....	PROPERTIES OF BILE AND RELATIONSHIP TO GALLSTONE.....	5K04 AM12972-06
JONES, ELIZABETH W.....	REGULATION IN YEAST-THFA METABOLISM AND PROTEASES.....	5K04 AM00056-02
<b>EYE AND EAR HOSPITAL OF PITTSBURGH ZIP CODE 15213</b>		
CHURCH, ROBERT L.....	BIOLOGY AND GENETICS OF PROCOLLAGEN.....	1K04 EY00071-01
<b>UNIVERSITY OF PITTSBURGH ZIP CODE 15260</b>		
BLAINE, EDWARD H.....	RELATION OF RENAL ENDOCRINE FUNCTION TO HYPERTENSION.....	5K04 HL00003-02
CHAY, TERESA R.....	STATISTICAL MECHANICS APPLIED TO BIOPOLYMERS.....	5K04 GM70115-05
COOPER, TERRANCE G.....	SYNTHESIS AND ASSEMBLY OF ENZYMES IN EUKARYOTES.....	5K04 GM00091-02
CURTHOYS, NORMAN P.....	GLUTAMINASE ISOENZYMES AND RAT RENAL AMMONIAGENESIS.....	1K04 AM00068-01A1
CYPRESS, RAYMOND H.....	PARASITIC DISEASES AS A MODEL FOR IMMUNE RESPONSES.....	5K04 AI00056-02
DE GROAT, WILLIAM C.....	AUTONOMIC CONTROL OF URINARY BLADDER AND LARGE BOWEL.....	5K04 NS13854-05
FRIZZELL, RAYMOND A.....	ION TRANSPORT BY MAMMALIAN COLON, IN VITRO.....	1K04 AM00173-01
GAY, VERNON L.....	NEUROENDOCRINE REGULATION OF GONADOTROPIN SECRETION.....	5K04 HD35032-05
GLEW, ROBERT H.....	METABOLISM OF MAMMALIAN GLYCOPROTEINS AND GLYCOLIPIDS.....	5K04 AM00036-02
HENDRIX, ROGER W.....	ASSEMBLY AND STRUCTURE OF BACTERIOPHAGE LAMBDA HEADS.....	5K04 AI00023-02
KENNY, JEAN B.....	MECHANISMS OF SEX DIFFERENCES IN IMMUNITY.....	5K04 HD70336-05
ROBINSON, ALAN G.....	PHYSIOLOGY OF NEUROPHYSIN SECRETION.....	5K04 AM00093-02
<b>UNIVERSITY PARK</b>		
<b>PENNSYLVANIA STATE UNIVERSITY ZIP CODE 16802</b>		
BRENCHLEY, JEAN E.....	ROLE OF T-RNA IN REGULATING ENZYME SYNTHESIS.....	1K04 GM00172-01
KEITH, ALEC D.....	BIOLOGICAL MEMBRANES: SPIN LABELS AND LIPID MUTANTS.....	5K04 GM70593-04
PHILLIPS, ALLEN T.....	BIOSYNTHESIS OF KETO ACID COENZYMES.....	5K04 AM70390-04
PHILLIPS, ALLEN T.....	BIOSYNTHESIS OF KETO ACID COENZYMES.....	5K04 AM70390-05
PHILLIPS, WINFRED M.....	RHEOLOGY OF BIOLOGICAL FLUIDS, BLOOD FLOW.....	5K04 HL00085-02
RHOADES, RODNEY A.....	SUBSTRATE METABOLISM AND LUNG FUNCTION.....	1K04 HL00166-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>RHODE ISLAND</b>		
<b>PROVIDENCE</b>		
<b>BROWN UNIVERSITY</b> <b>ZIP CODE 02912</b>		
BUTCHER, FRED R.....	CYCLIC NUCLEOTIDES IN PAROTID GLAND METABOLISM.....	5K04 AM00032-02
CSERR, HELEN F.....	PHYLOGENY AND ONTOGENY OF BRAIN-BARRIER SYSTEMS.....	5K04 NS70500-04
CZECH, MICHAEL P.....	INSULIN ACTION ON FAT CELL METABOLISM.....	1K04 AM00249-01
DAHLBERG, ALBERT E.....	RIBOSOME STRUCTURE AND FUNCTION.....	5K04 GM00044-02
GERBI, SUSAN A.....	FINE STRUCTURE OF RRNA.....	5K04 GM00036-02
LUSK, JOAN E.....	MEMBRANE PERMEABILITY AND TRANSPORT.....	1K04 GM00257-01
<b>SOUTH CAROLINA</b>		
<b>CHARLESTON</b>		
<b>MEDICAL UNIVERSITY OF SOUTH CAROLINA</b> <b>ZIP CODE 29401</b>		
KARAM, JIM D.....	DNA REPLICATION AND REPAIR OF T4 PHAGE.....	5K04 GM70725-03
WISE, WILLIAM C.....	AMINO ACID TRANSPORT IN NORMAL AND NEOPLASTIC CELLS.....	5K04 CA70412-03
YOUNG, FRANKLIN A, JR.....	BIOCOMPATIBLE MATERIALS FOR DENTAL SURGERY.....	5K04 DE70205-05
<b>SOUTH DAKOTA</b>		
<b>VERMILLION</b>		
<b>UNIVERSITY OF SOUTH DAKOTA</b> <b>ZIP CODE 57069</b>		
BRADY, FRANK O.....	METALLOENZYMES: IN VIVO REGULATION IN RAT ORGANS.....	1K04 ES00022-01
<b>TENNESSEE</b>		
<b>KNOXVILLE</b>		
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE AT KNOXVILLE</b> <b>ZIP CODE 37916</b>		
BECKER, JEFFREY M.....	PEPTIDE TRANSPORT IN YEAST AND TISSUE CULTURE.....	5K04 GM00094-02
FUHR, JOSEPH E.....	CONTROL OF PROTEIN BIOSYNTHESIS.....	1K04 AM00085-01A1
RIGGSBY, WILLIAM S.....	NUCLEOTIDE SEQUENCE SPECTRA IN NEOPLASTIC TISSUES.....	5K04 CA10692-05
<b>MEMPHIS</b>		
<b>ST. JUDE CHILDREN'S RESEARCH HOSPITAL</b> <b>ZIP CODE 38101</b>		
PHILLIPS, DAVID R.....	PLATELET MEMBRANE PROTEINS IN AGGREGATION.....	1K04 HL00080-01
PHILLIPS, DAVID R.....	PLATELET MEMBRANE PROTEINS IN AGGREGATION.....	5K04 HL00080-02
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES</b> <b>ZIP CODE 38163</b>		
BURGHEN, GEORGE A.....	STUDY OF INSULIN AND PROINSULIN IN JUVENILE DIABETES.....	5K04 HD70462-03
DUCKWORTH, WILLIAM C.....	MECHANISMS OF INSULIN AND GLUCAGON DEGRADATION.....	1K04 AM00187-01
LONGO, FRANK J.....	CYTOLOGICAL STUDIES OF FERTILIZATION.....	5K04 HD36162-05
MALIK, KAFAIT U.....	ANGIOTENSIN-PROSTAGLANDINS-ADRENERGIC INTERACTIONS.....	1K04 HL00142-01
MALIK, KAFAIT U.....	ANGIOTENSIN-PROSTAGLANDINS-ADRENERGIC INTERACTIONS.....	5K04 HL00142-02
MARIENCHECK, WILLIAM I.....	PULMONARY ACADEMIC AWARD.....	5K07 HL70367-05
NASJLETTI, ALBERTO.....	VASOACTIVE HORMONES AND BLOOD PRESSURE REGULATION.....	1K04 HL00163-01
NASJLETTI, ALBERTO.....	VASOACTIVE HORMONES AND BLOOD PRESSURE REGULATION.....	5K04 HL00163-02
VAN MIDDLESWORTH, LESTER V.....	IODINE METABOLISM AND THE BASIC CAUSE OF GOITER.....	5K06 AM00040-15

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>TENNESSEE—Continued</b>		
<b>NASHVILLE</b>		
<b>MEHARRY MEDICAL COLLEGE</b>	<b>ZIP CODE 37208</b>	
RUSSELL, JAMES D.	KELOIDS: AN IN VITRO MODEL OF TUMOR GROWTH REGULATION	5K04 CA00122-02
<b>VANDERBILT UNIVERSITY</b>	<b>ZIP CODE 37240</b>	
DALTON, LARRY R.	NEW INSTRUMENTAL TECHNIQUES FOR BIOMEDICAL RESEARCH	1K04 GM00201-01
FRANCIS, SHARRON H.	METABOLIC REGULATION IN NORMAL & DYSTROPHIC MUSCLE	1K04 AM00205-01
FREEMAN, JOHN A.	OPTIC TECTUM: A COMBINED STRUCTURAL & FUNCTIONAL STUDY	5K04 EY70240-05
MANN, GEORGE V.	MECHANISM OF ATHEROGENESIS	5K06 HL08288-15
MITCHELL, WILLIAM M.	STUDIES ON PROTEIN CONFORMATION & ITS PATHOCHEMISTRY	5K04 AM34798-05
PUETT, J. DAVID	GONADOTROPINS: STRUCTURE, METABOLISM, AND MECHANISMS	5K04 AM00055-02
ROELOFS, ROBERT I.	A STUDY OF HUMAN SKELETAL MUSCLE IN TISSUE CULTURE	5K04 NS70793-03
STOLTZFUS, CONRAD M.	SUBUNIT STRUCTURE AND FUNCTION OF ONCORNAVIRUS RNA	1K04 CA00205-01
WATSON, JACK T.	ANALYTICAL TECHNIQUES FOR INFLAMMATION-DRUG INTERACTION	5K04 GM50290-04
WILCOX, HENRY G.	REGULATION OF HEPATIC LIPOPROTEIN METABOLISM	5K04 HL70329-05
<b>TEXAS</b>		
<b>AUSTIN</b>		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN</b>	<b>ZIP CODE 78712</b>	
BIESELE, JOHN J.	CHROMOSOMES AND MITOSIS IN HEALTH AND DISEASE	5K06 CA18366-14
BIESELE, JOHN J.	CHROMOSOMES AND MITOSIS IN HEALTH AND DISEASE	5K06 CA18366-15
BITTNER, GEORGE D.	REGENERATION IN INVERTEBRATE NERVOUS SYSTEMS	5K04 NS00070-02
GIBSON, DAVID T.	MECHANISMS OF ENZYMATIC OXYGEN FIXATION	5K04 ES70088-05
MANDY, WILLIAM J.	IMMUNOCHEMICAL PROPERTIES OF A NEW SERUM FACTOR	5K03 GM21252-10
MYERS, JACK E.	PHYSIOLOGY AND BIOCHEMISTRY OF ALGAE	5K06 GM18373-14
MYERS, JACK E.	PHYSIOLOGY AND BIOCHEMISTRY OF ALGAE	5K06 GM18373-15
WAGNER, ROBERT P.	GENETIC CONTROL OF CELL ORGANIZATION	5K06 GM18383-14
WAGNER, ROBERT P.	GENETIC CONTROL OF CELL ORGANIZATION	5K06 GM18383-15
<b>COLLEGE STATION</b>		
<b>TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY</b>	<b>ZIP CODE 77843</b>	
MATIS, JAMES H.	STOCH COMP ANAL: MODELLING, ESTIMATION, APPLICATION	5K04 GM00033-02
<b>DALLAS</b>		
<b>BISHOP COLLEGE</b>	<b>ZIP CODE 75241</b>	
FOWLKS, EDISON R.	STRUCTURE-FUNCTION OF MULTIPLE COMPONENT VIRAL RNA	1K04 AI00175-01
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS</b>	<b>ZIP CODE 75235</b>	
GOLDSTEIN, JOSEPH L.	STUDIES IN BIOCHEMICAL AND CLINICAL GENETICS	5K04 GM70227-05
HERSH, LOUIS B.	ONE-CARBON METABOLISM IN PSEUDOMONAS MA	5K04 GM70239-04
HERSH, LOUIS B.	ONE-CARBON METABOLISM IN PSEUDOMONAS MA	5K04 GM70239-05
HOLMES, RANDALL K.	CONTROL OF BACTERIAL TOXINS BY VIRUSES AND PLASMIDS	5K04 AI00051-02
JASIN, HUGO E.	CHRONIC INFLAMMATION PRODUCED BY IMMUNE COMPLEXES	5K04 AM70297-04
MC GARRY, J. DENIS.	REGULATION AND TREATMENT OF DIABETIC KETOACIDOSIS	5K04 AM70763-03
MOSS, ROBERT L.	NEURAL CONTROL OF HORMONE RELEASE AND SEX BEHAVIOR	1K04 HD00146-01
PETERSON, JULIAN A.	CONTROL OF BIOLOGICAL HYDROXYLATION REACTIONS	5K04 GM30962-04
PETERSON, JULIAN A.	CONTROL OF BIOLOGICAL HYDROXYLATION REACTIONS	5K04 GM30962-05
PROUGH, RUSSELL A.	METABOLISM OF FOREIGN COMPOUNDS IN LIVER AND LUNG	1K04 HL00255-01
TAUROG, ALVIN M.	BIOSYNTHESIS AND MECHANISM OF ACTION OF THYROXINE	5K06 AM15276-14
WILDENTHAL, C. KERN	STUDIES OF FETAL MOUSE HEARTS IN ORGAN CULTURE	5K04 HL70125-05
ZIFF, MORRIS	CLINICAL AND BASIC IMMUNOLOGY	5K06 AM14155-15



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>TEXAS—Continued</b>		
<b>DENTON</b>		
<b>NORTH TEXAS STATE UNIVERSITY</b>	<b>ZIP CODE 76203</b>	
GRACY, ROBERT W.....	THE MOLECULAR BASIS OF ISOMERASE DEFICIENCY DISEASES.....	5K04 AM70198-04
GRACY, ROBERT W.....	THE MOLECULAR BASIS OF ISOMERASE DEFICIENCY DISEASES.....	5K04 AM70198-05
HARRIS, BEN G.....	PROTEIN STRUCTURE AND FUNCTION IN PARASITIC HELMINTHS.....	1K04 AI00057-01
<b>GALVESTON</b>		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON</b>	<b>ZIP CODE 77550</b>	
BLANKENSHIP, JAMES E.....	INTEGRATIVE MECHANISMS IN APLYSIA.....	5K04 NS70613-04
FULLER, GERALD M.....	STUDIES ON THE REGULATION OF FIBRINOGEN BIOSYNTHESIS.....	1K04 HL00162-01
FULLER, GERALD M.....	STUDIES ON THE REGULATION OF FIBRINOGEN BIOSYNTHESIS.....	5K04 HL00162-02
GRANT, J ANDREW.....	COMPLEMENT-INDUCED RELEASE OF INFLAMMATORY MEDIATORS.....	5K07 AI00110-02
REMMERS, JOHN E.....	PULMONARY ACADEMIC AWARD.....	5K07 HL00131-02
<b>HOUSTON</b>		
<b>BAYLOR COLLEGE OF MEDICINE</b>	<b>ZIP CODE 77025</b>	
AUNE, WIRK C.....	INTERPRETATIONS OF MACROMOLECULAR INTERACTIONS.....	5K04 GM00071-02
BARNES, EUGENE M, JR.....	MECHANISMS OF TRANSPORT IN MEMBRANE VESICLES.....	5K04 AM00052-02
HARTLEY, CRAIG J.....	CARDIOVASCULAR APPLICATIONS: PULSED DOPPLER TECHNIQUES.....	1K04 HL00181-01
KIT, SAUL.....	BIOCHEMICAL ASPECTS OF VIROLOGY.....	5K06 AI02352-14
MARTIN, RUSSELL R.....	INFLAMMATION: LEUKOCYTES & MACROPHAGES IN HOST DEFENSE.....	5K04 AI70335-03
MEANS, ANTHONY R.....	REPRODUCTIVE TISSUE: HORMONES AND DEVELOPMENT.....	5K04 HD30939-04
MOSES, ROBB E.....	THE ENZYMATIC MECHANISMS OF DNA SYNTHESIS.....	5K04 GM70314-05
PECK, ERNEST J, JR.....	NEUROENDOCRINE CONTROL OF REPRODUCTION.....	1K04 HD00022-01
RICH, ROBERT R.....	REGULATORY FUNCTIONS OF ACTIVATED T LYMPHOCYTES.....	5K04 AI00006-02
ROSEN, JEFFREY M.....	HORMONAL REGULATION OF BREAST CANCER.....	1K04 CA00154-01
TRENTIN, JOHN J.....	TISSUE TRANSPLANTATION, RADIOBIOLOGY, AND CANCER BIOLOGY.....	5K06 CA14219-15
WILSON, JOHN H.....	ONCOGENIC MECHANISMS: SV40 AND HOST GENETIC ANALYSIS.....	5K04 CA00058-02
<b>UNIVERSITY OF HOUSTON</b>	<b>ZIP CODE 77004</b>	
HARWERTH, RONALD S.....	STUDIES OF BINOCULAR VISION.....	1K07 EY00052-01
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON</b>	<b>ZIP CODE 77025</b>	
CASTRO, GILBERT A.....	IMMUNOLOGY & PATHOPHYSIOLOGY OF INTESTINAL PARASITISM.....	5K04 AI00087-02
JOHNSON, LEONARD R.....	EFFECT OF G I HORMONES ON GASTRIC AND DUODENAL MUCOSA.....	5K04 AM28972-04
JOHNSON, LEONARD R.....	EFFECT OF G I HORMONES ON GASTRIC AND DUODENAL MUCOSA.....	5K04 AM28972-05
MILLER, WARREN C.....	PULMONARY ACADEMIC AWARD.....	1K07 HL00245-01
SANBORN, BARBARA M.....	MOLECULAR ACTIONS OF STEROID AND POLYPEPTIDE HORMONES.....	1K04 HD00126-01
STANCEL, GEORGE M.....	ESTROGEN CONTROL OF UTERUS AND PITUITARY FUNCTION.....	1K04 HD00099-01
WEISS, KENNETH M.....	EVOLUTIONARY MODELS OF HUMAN HEALTH PATTERNS.....	1K04 GM00230-01
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER</b>	<b>ZIP CODE 77025</b>	
ANDERSON, JAMES H.....	NEW AND IMPROVED TECHNIQUES OF INTERVENTION RADIOLOGY.....	5K04 CA00083-02
GUTTERMAN, JORDAN U.....	TUMOR IMMUNITY AND IMMUNOTHERAPY OF HUMAN CANCER.....	5K04 CA71007-03
MAVLIGIT, GIORA M.....	IMMUNOLOGICAL APPROACHES TO CANCER THERAPY.....	5K04 CA00130-02
MURGOLA, EMANUEL J.....	MISSENSE SUPPRESSION AND MUTATIONALLY ALTERED TRNAS.....	5K04 GM00047-02
SUTOW, WATARU W.....	CHEMOTHERAPY IN MALIGNANT DISEASES IN CHILDREN.....	5K06 CA02501-14
<b>LUBBOCK</b>		
<b>TEXAS TECH UNIVERSITY</b>	<b>ZIP CODE 79409</b>	
MARKWALD, ROGER R.....	MATRICAL MACROMOLECULAR EFFECTS ON CARDIOGENESIS.....	1K04 HL00228-01

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>TEXAS—Continued</b>		
<b>RICHARDSON</b>		
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT DALLAS ZIP CODE 75080		
LANG, DIMITRIU.....	QUANTITATIVE MORPHOLOGY OF NUCLEIC ACIDS.....	5K03 GM34964-10
<b>SAN ANTONIO</b>		
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO ZIP CODE 78284		
LEVINSON, CHARLES.....	PHOSPHATE TRANSPORT AND METABOLISM IN CARCINOMA CELLS.....	5K04 CA70489-04
LEVINSON, CHARLES.....	PHOSPHATE TRANSPORT AND METABOLISM IN CARCINOMA CELLS.....	5K04 CA70489-05
PETERSON, DONALD F.....	BEAT-TO-BEAT REGULATION OF THE CIRCULATION.....	1K04 HL00230-01
SHERIDAN, PETER J.....	ANDROGEN RECEPTORS IN THE BRAIN.....	1K04 NS00164-01
<b>UTAH</b>		
<b>SALT LAKE CITY</b>		
LATTER-DAY SAINTS HOSPITAL SYSTEM—LATTER-DAY SAINTS HOSPITAL ZIP CODE 84143		
WARNER, HOMER R.....	MATHEMATICAL ANALYSIS OF THE CIRCULATION.....	5K06 HL18344-15
UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH ZIP CODE 84112		
CASIENS, SHERWOOD R.....	BACTERIOPHAGE P22 ASSEMBLY AND ITS GENETIC CONTROL.....	1K04 GM00237-01
EHRENFELD, ELVERA R.....	VIRUS-HOST CELL INTERACTIONS.....	5K04 AI00096-02
GRAY, WILLIAM R.....	STRUCTURE-FUNCTION RELATIONS IN ARTERIAL ELASTIN.....	5K04 GM70647-04
HUANG, WAI M.....	STUDIES ON T4 DNA REPLICATION.....	5K04 GM00148-02
MARCUS, STANLEY.....	RESISTANCE TO INFECTIOUS AND NEOPLASTIC DISEASE.....	5K06 AI14924-15
MILLAR, CONNIE K.....	NEURAL EFFECTS OF HEART ELECTROPHYSIOLOGY & HEMODYNAMICS.....	5K04 HL70644-04
NELSON, JAMES A.....	FACTORS INFLUENCING HEPATIC CONTRAST MEDIA KINETICS.....	1K04 GM00164-01
PARMA, DAVID H.....	GENETICS OF CHROMOSOMAL ABERRATIONS IN PHAGE T4D.....	5K04 AI00024-02
POULTER, CHARLES D.....	SUBSTRATE ANALOGS FOR TERPENE CONDENSATION REACTIONS.....	5K04 HL00084-02
ROTI ROTI, JOSEPH L.....	MITOTIC DELAY MECHANISMS AND CELL KINETICS MODELS.....	1K04 CA00234-01
TYLER, FRANK H.....	MUSCLE, STEROID, AND CARBOHYDRATE METABOLISM.....	5K06 AM14913-15
WOLSTENHOLME, DAVID R.....	STRUCTURE OF MITOCHONDRIAL AND KINETOPLAST DNA.....	5K04 GM70104-05
WOODBURY, DIXON M.....	PHARMACOLOGY AND CELLULAR BIOCHEMISTRY OF THE CNS.....	5K06 NS13838-15
<b>VERMONT</b>		
<b>BURLINGTON</b>		
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE ZIP CODE 05401		
CITRONEO, KENNETH R.....	ANTI-INFLAMMATORY STEROIDS AND COLLAGEN SYNTHESIS.....	7K04 AM00120-03
KRAWITT, EDWARD L.....	ACADEMIC CAREER DEVELOPMENT AWARD IN DIGESTIVE DISEASES.....	5K07 AM35234-05
LEPESCHKIN, EUGENE.....	BASIC STUDIES IN CARDIAC ELECTROPHYSIOLOGY.....	5K06 HL00440-15
SCHUMACHER, GEORGE A.....	INVESTIGATIONS IN THE NEUROSCIENCES.....	5K06 NS17045-15
STRAUSS, MICHAEL J.....	SYNTHESIS OF NEW PHARMACEUTICALS.....	5K04 GM70714-03
<b>VIRGINIA</b>		
<b>CHARLOTTESVILLE</b>		
UNIVERSITY OF VIRGINIA ZIP CODE 22903		
BENJAMIN, DAVID C.....	CELLULAR AND STRUCTURAL BASIS OF IMMUNOLOGIC TOLERANCE.....	5K04 AI00029-02
BROOKER, GARY.....	METABOLIC AND HORMONAL CONTROL OF CARDIAC CONTRACTION.....	5K04 HL00098-02

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>VIRGINIA—Continued</b>		
DAMMANN, JOHN F.	CARDIOPULMONARY PHYSIOLOGY IN CRITICALLY ILL PATIENTS	5K06 HL14213-15
DANIELSON, DONALD A.	MATHEMATICAL MODELS FOR PROBLEMS IN PHYSIOLOGY	5K04 GM70733-03
EMERSON, SUZANNE U.	FUNCTIONS AND BIOCHEMISTRY OF RHADOVIRUS PROTEINS	5K04 AI00013-02
GEAR, ADRIAN R.	PLATELET SURVIVAL AND FUNCTION: ROLE OF MITOCHONDRIA	5K04 HL70759-03
GILMAN, ALFRED G.	REGULATION OF CYCLIC AMP IN CULTURED CELLS	5K04 NS00026-02
HOWARDS, STUART S.	MICROPUNCTURE STUDIES OF TESTIS AND EPIDIDYMS	1K04 HD00108-01
KADNER, ROBERT J.	GENETIC CONTROL OF MEMBRANE TRANSPORT IN E. COLI	5K04 GM00019-02
KRETSINGER, ROBERT H.	STRUCTURE OF CARP-MUSCLE CALCIUM-BINDING PROTEIN	5K04 GM70480-04
KRETSINGER, ROBERT H.	STRUCTURE OF CARP-MUSCLE CALCIUM-BINDING PROTEIN	5K04 GM70480-05
KUTCHAI, HOWARD C.	RED CELL O <sub>2</sub> TRANSPORT AND TRANSPORT SYSTEMS IN HEART	5K04 HL00014-02
LEE, JEN-SHIH	ENGINEERING STUDY OF PULMONARY MECHANICS AND EDEMA	1K04 HL00004-01A1
LEE, JEN-SHIH	ENGINEERING STUDY OF PULMONARY MECHANICS AND EDEMA	5K04 HL00004-02
LONGNECKER, DAVID E.	ANESTHETICS AND MICROVASCULAR RESPONSE TO HEMORRHAGE	5K04 HL00037-02
MURAD, FERID	REGULATION OF CYCLIC NUCLEOTIDE METABOLISM AND ACTION	5K04 AM70456-04
MURAD, FERID	REGULATION OF CYCLIC NUCLEOTIDE METABOLISM AND ACTION	5K04 AM70456-05
POHL, STEPHEN L.	MECHANISMS OF POLYPEPTIDE HORMONE ACTION	7K04 AM00183-02
POHL, STEPHEN L.	MECHANISMS OF POLYPEPTIDE HORMONE ACTION	5K04 AM00183-03
ROGOL, ALAN D.	HETEROGENEITY OF PLASMA HORMONES	1K04 AM00153-01
SHERMAN, S MURRAY	MAMMALIAN VISUAL DEVELOPMENT AND AMBLYOPIA	5K04 EY00020-02
STEINBERG, WILLIAM	AMINOACYL-TRNA SYNTHETASES AND SPORE DEVELOPMENT	5K04 GM70273-05
TAYLOR, RONALD P.	QUANTITATIVE STUDIES OF BIOLOGICAL RECOGNITION	5K04 AI00062-02
VAUGHAN, DARRACOTT, JR.	DES-ASP1-ANGIOTENSIN II: FORMATION AND ACTION	1K04 HL00140-01

## NORFOLK

### EASTERN VIRGINIA MEDICAL AUTHORITY—EASTERN VIRGINIA MEDICAL SCHOOL ZIP CODE 23507

WRIGHT, GEORGE L, JR. ISOLATION OF TUMOR ANTIGENS. 5K04 CA00012-02

## RICHMOND

### VIRGINIA COMMONWEALTH UNIVERSITY ZIP CODE 23284

GUZELIAN, PHILIP S, JR. REGULATION OF MICROSOMAL HEMOPROTEINS IN THE LIVER. 5K08 AM00128-02  
 LIBERTI, JOSEPH P. BIOCHEMISTRY OF SOMATOMEDIN. 5K04 AM00125-02  
 MORAHAN, PAGE S. VIRAL DISEASE—IMMUNITY AND RESISTANCE INDUCING AGENTS. 5K04 AI70863-03  
 PATTERSON, JOHN L, JR. NORMAL & PATHOPHYSIOLOGY OF CIRCULATION & RESPIRATION. 5K06 HL18678-15  
 PRICE, STEVEN. MOLECULAR MECHANISMS OF GLUCORECEPTOR STIMULATION. 5K04 DE12433-05  
 TEW, JOHN G. REGULATION OF THE IMMUNE RESPONSE BY PERSISTING ANTIGEN. 5K04 AI00008-02

## WASHINGTON

### PULLMAN

#### WASHINGTON STATE UNIVERSITY ZIP CODE 99163

KRAKAUER, HENRY. THERMODYNAMIC FACTORS IN THE CONTROL OF NA FUNCTION. 5K04 GM70441-04  
 KRAKAUER, HENRY. THERMODYNAMIC FACTORS IN THE CONTROL OF NA FUNCTION. 5K04 GM70441-05  
 PRIEUR, DAVID J. CHARACTERIZATION OF NEW GENETIC ANIMAL DISEASE MODELS. 1K04 RR00003-01

### SEATTLE

#### UNIVERSITY OF WASHINGTON ZIP CODE 98195

ADAMSON, JOHN W. ERYTHROPOIETIN: IN VITRO AND IN VIVO STUDIES IN MAN. 5K04 AM70222-05  
 ALVARES, OLAV F. NUTRITION AND THE ORAL MUCOUS MEMBRANES. 1K04 DE00037-01  
 ANDERSEN, NIELS H. THE MOLECULAR BASIS OF PROSTAGLANDIN BIOCHEMISTRY. 5K04 GM00134-02  
 BAYLINK, DAVID J. BONE RESORPTION IN OSTEOPOROSIS AND PERIODONTAL DISEASE. 5K04 DE19108-05  
 CAMERMAN, ARTHUR. STEREOCHEMICAL BASIS OF DRUG AND HORMONE ACTION. 5K04 NS70801-03  
 CLARK, ROBERT AMOS. ANTITUMOR ACTIVITY OF PHAGOCYTIC CELLS. 1K04 CA00164-01  
 CULVER, BRUCE H. PULMONARY ACADEMIC AWARD. 1K07 HL00248-01



**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee, Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>WASHINGTON—Continued</b>		
CURRERI, P. WILLIAM	METABOLIC AND HEMATOLOGICAL ALTERATIONS AFTER TRAUMA	5K04 GM00029-04
GARTLER, STANLEY M.	STUDIES IN MAMMALIAN SOMATIC CELL GENETICS	5K06 GM03874-13
HAUSCHKA, STEPHEN D.	MOLECULAR MECHANISMS OF MUSCLE AND NERVE DIFFERENTIATION	5K04 AM70154-05
HENDRICKSON, ANITA E.	DEVELOPMENT OF PRIMATE RETINA	5K04 EY39039-02
HLASTALA, MICHAEL P.	TOTAL BODY GAS EXCHANGE	1K04 HL00182-01
HOHL, THOMAS H.	SURGICAL EFFECTS ON GROWTH OF CRANIOFACIAL COMPLEX	1K04 DE00040-01
JOHNSON, DAVID G.	THE REGULATION OF INSULIN RELEASE	5K04 AM70727-03
LAIRD, CHARLES D.	CHROMOSOME STRUCTURE AND FUNCTION	5K04 GM35558-07
QUADRACCI, LEONARD J.	IMMUNOLOGIC RENAL DISEASE AND TRANSPLANTATION	5K04 AM70637-03
RUBIN, CYRUS E.	HUMAN MUCOSAL STRUCTURE AND FUNCTION	5K06 CA03449-15
SAARI, JOHN C.	RETINOL BINDING PROTEINS—RETINOL METABOLISM & FUNCTION	1K07 EY00043-01
THOMAS, EDWARD D.	TRANSPLANTATION OF MARROW AND MARROW METABOLISM	5K06 AI02425-13
TRAGER, WILLIAM F.	ASPECTS OF THE METABOLISM OF ORAL ANTICOAGULANTS	1K04 GM00211-01
TRUMAN, JAMES W.	HORMONE ACTION ON THE CENTRAL NERVOUS SYSTEM	1K04 NS00193-01
WEISS, MOEL S.	MENOPAUSAL ESTROGENS AND THE EPIDEMIOLOGY OF CANCER	5K04 CA00048-02
WHITELEY, HELEN R.	METABOLISM OF ANAEROBIC MICROCOCCI	5K06 GM00442-13
WHITELEY, HELEN R.	METABOLISM OF ANAEROBIC MICROCOCCI	5K06 GM00442-14
WILLSON, RICHARD A.	ACUTE LIVER INJURY AND FAILURE	1K04 AM00151-01
WINTER, PETER M.	RESEARCH INTO PULMONARY OXYGEN TOXICITY	5K04 HL48882-05
<b>VIRGINIA MASON RESEARCH CENTER ZIP CODE 98101</b>		
D'Aoust, BRIAN G.	PHYSIOLOGICAL & BIOCHEMICAL ADJUSTMENT TO PRESSURE	5K04 HL70543-04
D'Aoust, BRIAN G.	PHYSIOLOGICAL & BIOCHEMICAL ADJUSTMENT TO PRESSURE	5K04 HL70543-05
HILDEBRANDT, JUDITH R.	CONTROL OF LUNG FUNCTION AND RESPIRATION IN EXERCISE	5K04 HL00047-02
<b>WEST VIRGINIA</b>		
<b>MORGANTOWN</b>		
<b>WEST VIRGINIA UNIVERSITY ZIP CODE 26506</b>		
ALBRINK, MARGARET J.	SERUM TRIGLYCERIDES AND VASCULAR DISEASE	5K06 HL00486-14
<b>WISCONSIN</b>		
<b>MADISON</b>		
<b>UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON ZIP CODE 53706</b>		
BEINERT, HANS H.	BASIC MECHANISMS IN BIOLOGICAL OXIDATIONS	5K06 GM18442-15
BLATTNER, FREDERICK R.	REGULATORY SITE IN PRO- AND EUKARYOTIC GENOMES	5K04 GM00150-02
BORISY, GARY G.	MICROTUBULE ASSEMBLY AND FUNCTION	5K04 GM00066-02
DAVIS, LARRY D.	CELLULAR POTENTIAL CHANGES CAUSING CARDIAC ARRHYTHMIA	5K04 HL70740-03
DEMPSEY, JEROME A.	PULMONARY ADAPTATION TO CHRONIC HYPOXIA	1K04 HL00149-01
DEMPSEY, JEROME A.	PULMONARY ADAPTATION TO CHRONIC HYPOXIA	5K04 HL00149-02
DUNCAN, CHARLES L.	STUDY OF ENTEROTOXIN OF C. PERFRINGENS TYPE A	5K04 AI70721-03
HUTCHINSON, CHARLES R.	METABOLISM OF NATURALLY OCCURRING ANTITUMOR COMPOUNDS	1K04 CA00253-01
JEFOATE, COLIN R.	CYTOCHROME P450 CARCINOGENESIS AND STEROID SYNTHESIS	1K04 CA00250-01
KAESBERG, PAUL J.	STRUCTURE AND SYNTHESIS OF VIRUSES	5K06 AI21942-13
LAGE, GARY L.	CARDIAC GLYCOSIDE DISPOSITION AND TOXICITY	5K04 HL00096-02
MC CLAIN, WILLIAM H.	BIOSYNTHESIS & FUNCTION OF MOLECULAR GENETICS OF T-RNA	5K04 AI00020-02
MUELLER, GERALD C.	STUDIES ON GROWTH REGULATING MECHANISMS	4K06 CA00685-16
NELSON, DAVID L.	SPATIAL DIFFERENTIATION AND ION	5K04 NS00085-02
NICKLES, ROBERT J.	RADIOTRACER DEVELOPMENT FOR CARDIOVASCULAR STUDIES	1K04 HL00217-01
NORTHROP, DEXTER B.	MECHANISMS OF DEHYDROGENASES/ANTIBIOTIC INACTIVATION	1K04 GM00254-01
REZNIKOFF, WILLIAM S.	GENETIC TRANSCRIPTION AND REGULATION SIGNALS IN E. COLI	5K04 GM30970-05
RHODE, WILLIAM S.	MECHANICAL AND ELECTRICAL STUDIES OF THE INNER EAR	5K04 NS00107-02
RIS, HANS	STRUCTURE AND MOLECULAR ORGANIZATION OF GENETIC SYSTEMS	5K06 GM21948-13

**Table 3.—NIH Research Career Awards, by Area, Organization, and Awardee,  
Fiscal Year 1976 and Transition Quarter—Continued**

Awardee	Project title	Grant number
<b>WISCONSIN—Continued</b>		
RUOHO, ARNOLD E.....	MOLECULAR CHARACTERIZATION OF ADRENERGIC RECEPTORS.....	1K04 NS00158-01
UPDIKE, STUART J.....	IMMOBILIZED BIOLOGICAL ACTIVITY—CLINICAL APPLICATIONS.....	5K04 GM70157-05
<b>MILWAUKEE</b>		
MEDICAL COLLEGE OF WISCONSIN      ZIP CODE 53233		
GHAZARIAN, JACOB G.....	CONTROL OF ENZYMES IN THE VITAMIN D3 ENDOCRINE COMPLEX.....	1K04 AM00220-01
LECH, JOHN J.....	METABOLISM AND DISPOSITION OF FOREIGN COMPOUNDS BY FISH.....	5K04 ES00002-02
<b>WYOMING</b>		
<b>LARAMIE</b>		
UNIVERSITY OF WYOMING      ZIP CODE 82070		
BARDEN, ROLAND E.....	KINETICS AND AFFINITY LABELLING OF LIPID ENZYMES.....	1K04 GM00246-01
SMITH, DAVID V.....	ADAPTATION AND TASTE QUALITY CODING.....	1K04 NS00168-01
<b>PUERTO RICO</b>		
<b>SAN JUAN</b>		
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO AT RIO PIEDRAS      ZIP CODE 00931		
ADAM, WALDEMAR.....	SYNTHESIS OF ENDOPEROXIDE PRECURSORS TO PROSTAGLANDIN.....	5K04 GM00141-02
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS      ZIP CODE 00936		
CORCINO, JOSE J.....	ACADEMIC CAREER DEVELOPMENT AWARD IN NUTRITION.....	5K07 AM70696-04
DEL CASTILLO, JOSE.....	PHYSIOLOGY AND PHARMACOLOGY OF EXCITATION.....	5K06 NS14938-15

## APPENDIX

### Notes on Selected Organizations

Organizations appearing in more than one geographical location or requiring a clarifying comment are listed below in alphabetical sequence. Comments on certain foundations or on organizations whose names have changed since last year appear after the name of the organization. The tables in which the organizations may be found are shown in parentheses following their locations.

#### United States

Affiliated Hospitals Center--Boston (3 units), Mass. (2,3)  
American College of Radiology--Chicago, Ill.; Chevy Chase, Md. (2)  
American Institutes for Research--Palo Alto, Calif.; Washington, D.C. (2)  
Battelle Memorial Institute--Columbus, Ohio; Richland, Seattle, Wash. (2)  
Boston Health and Hospitals Department (may include awards to Mallory Institute of Pathology Foundation)--Boston, Mass. (2)  
California State Health and Welfare Agency--Berkeley, Eldridge, Sacramento, Calif. (2)  
California State University and Colleges--Hayward, Long Beach, Los Angeles, Northridge, San Diego, San Francisco, Calif. (2,3)  
Chicago Health Department (formerly shown as Chicago Board of Health and may include awards to Chicago Health Research Foundation)--Chicago, Ill. (2)  
City University of New York--New York (9 units), N.Y. (2,3)  
Claremont Colleges System--Claremont (4 units), Calif. (2)  
College of Medicine and Dentistry of New Jersey--Newark, Piscataway, N.J. (2,3)  
Cornell University--Ithaca, New York, N.Y. (2,3)  
Denver Health and Hospitals Department (may include awards to Denver Health Research Foundation)--Denver, Colo. (2)  
East-West Center (formerly shown as Center for Cultural and Technical Interchange between East and West)--Honolulu, Hawaii (2)  
Florida Department of Health and Rehabilitative Services--Jacksonville, Vero Beach, Fla. (2)  
Gulf South Research Institute--Baton Rouge, New Iberia, New Orleans, La. (2)  
Harvard University--Boston, Cambridge, Mass. (2,3)  
Illinois Department of Mental Health and Developmental Disabilities (formerly shown as Illinois State Department of Mental Health and may include awards to Association for Advancement of Mental Health Research and Education, Inc.)--Chicago (2 units), Ill. (2)  
Indiana University System--Bloomington, Indianapolis, Ind. (2,3)  
Johns Hopkins University--Baltimore, Silver Spring, Md. (2,3)  
Kaiser Foundation Hospitals--Oakland, San Francisco, Calif.; Portland, Oreg. (2)  
Latter-Day Saints Hospital System--Salt Lake City (3 units), Utah (2,3)  
Los Angeles County Health Services Department--Downey, Los Angeles (2 units), Torrance, Calif. (2,3)



Louisiana Health and Human Resources Administration (formerly shown as Louisiana Health and Social and Rehabilitative Services Administration)--New Orleans, La. (2)

Louisiana State University System--Baton Rouge, New Orleans (2 units), Shreveport, La. (2,3)

Maryland State Department of Health and Mental Hygiene (may include awards to Friends Medical Science Research Center, Inc.)--Catonsville, Md. (2)

Masonic Foundation for Medical Research and Human Welfare--New York, Utica, N.Y. (2)

Massachusetts General Hospital--Belmont, Boston, Mass. (2,3)

Massachusetts Office of Human Services (may include awards to the Massachusetts Mental Health Research Corporation)--Boston, Medfield, Mass. (2)

Mayo Foundation--Rochester (2 units), Minn. (2,3)

New Jersey State Department of Institutions and Agencies (may include awards to the New Jersey Mental Health Research and Development Fund)--Skillman, N.J. (2)

New York Medical College--New York, Valhalla, N.Y. (2,3)

New York State Department of Health (may include awards to Health Research, Inc.)--Albany, Buffalo, N.Y. (2,3)

New York State Department of Mental Hygiene (may include awards to New York State Research Foundation for Mental Hygiene, Inc.)--Albany, New York (3 units), Orangeburg, N.Y. (2)

North Carolina Department of Human Resources (may include awards to North Carolina Foundation for Mental Health Research, Inc.)--Raleigh, N.C. (2)

Northwestern University--Chicago, Evanston, Ill. (2,3)

Oregon State Higher Education System--Corvallis, Eugene, Monmouth, Portland (2 units), Oreg. (2,3)

Pennsylvania State University--Hershey, University Park, Pa. (2,3)

Puget Sound Blood Center (formerly shown as King County Central Blood Bank)--Seattle, Wash. (2)

Rush-Presbyterian-St. Luke's Medical Center--Chicago (2 units), Ill. (2,3)

Rutgers University--New Brunswick, Newark, N.J. (2,3)

Sidney Farber Cancer Institute (formerly shown as Sidney Farber Cancer Center)--Boston, Mass. (2)

Southern Illinois University--Carbondale, Edwardsville, Springfield, Ill. (2)

Southern University and Agricultural and Mechanical College--Baton Rouge, New Orleans, La. (2)

State University of Florida System--Boca Raton, Gainesville, Jacksonville, Tallahassee (2 units), Tampa, Fla. (2,3)

State University of New York--Albany, Binghamton, Buffalo (2 units), New York, Oneonta, Plattsburgh, Purchase, Stony Brook, Syracuse (2 units), N.Y. (2,3)

Texas Agricultural and Mechanical University System--College Station, Prairie View, Texas (2,3)

Tufts University--Boston, Medford, Mass. (2,3)

Tulane University--Covington, New Orleans, La. (2,3)

U.S. Department of Health, Education, and Welfare--San Francisco, Calif.; Carville, New Orleans, La.; Baltimore, Md.; Boston, Mass.; New York, N.Y.; Seattle, Wash. (2)

Union College and University System--Albany, Schenectady, N.Y. (2,3)

University of Arkansas--Fayetteville, Little Rock, Ark. (2,3)

University of California System--Berkeley, Davis, Irvine, La Jolla, Los Angeles, Riverside, San Francisco, Santa Barbara, Santa Cruz, Calif. The unit in La Jolla may include awards to Friends of Psychiatric Research of San Diego. (2,3)

University of Colorado--Boulder, Denver, Colo. (2,3)

University of Connecticut--Farmington, Storrs, Conn. (2,3)

University of Hawaii System--Hilo, Honolulu, Hawaii (2,3)

University of Illinois System--Chicago (2 units), Peoria, Urbana, Ill. (2,3)

University of Kansas--Kansas City, Lawrence, Kans. (2,3)

University of Maine System--Orono, Portland, Me. (2)

University of Maryland System--Baltimore, Catonsville, College Park, Princess Anne, Md. (2,3)

University of Massachusetts System--Amherst, Boston, Worcester, Mass. (2,3)

University of Miami--Coral Gables, Miami, Fla. (2,3)

University of Minnesota--Austin, Duluth, Minneapolis, Saint Paul, Minn. (2,3)

University of Mississippi--Jackson, University, Miss. (2,3)

University of Missouri System--Columbia, Kansas City, Normandy, Mo. (2,3)

University of Nebraska System--Lincoln, Omaha (2 units), Nebr. (2,3)

University of North Carolina System--Chapel Hill, Durham, Elizabeth City, Greensboro, Greenville, Raleigh, Wilmington, Winston-Salem, N.C. (2,3)

University of Oklahoma--Norman, Oklahoma City, Okla. (2,3)

University of Puerto Rico System--Mayaguez, San Juan (2 units), P.R. (2,3)

University of Tennessee System--Knoxville, Memphis, Tenn. (2,3)

University of Texas System--Arlington, Austin, Dallas, El Paso, Galveston, Houston (2 units), Richardson, San Antonio (2 units), Tex. (2,3)

University of Wisconsin System--Madison, Milwaukee, Wisc. (2,3)

University System of Georgia--Albany, Athens, Atlanta (2 units), Augusta, Fort Valley, Savannah, Statesboro, Ga. (2,3)

Utah State Higher Education System--Logan, Salt Lake City, Utah (2,3)

Veterans Administration--Little Rock, Ark.; Long Beach, San Francisco, Sepulveda, Calif.; Wichita, Kans.; Hines, Ill.; Boston, Mass.; New York, Northport, N.Y.; Durham, N.C.; Portland, Oreg.; Pittsburgh, Pa.; White River Junction, Vt. (2)

#### Other Countries

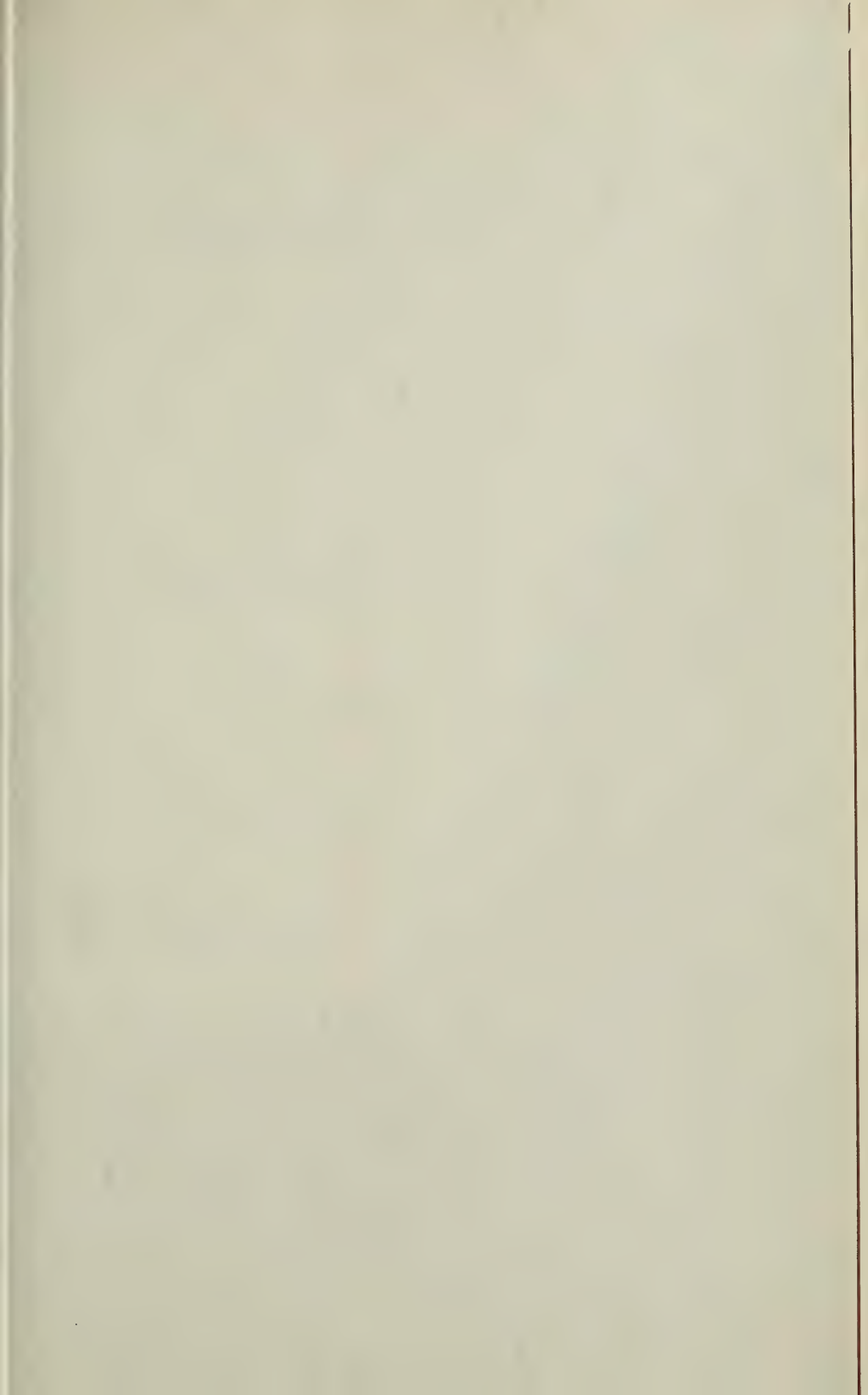
Catholic University of Louvain--Brussels, Louvain, Belgium (2)

Technion-Israel Institute of Technology (formerly shown as Israel Institute of Technology)--Haifa, Israel (2)

World Health Organization--Geneva, Lausanne, Switzerland (2)







DHEW Publication No. (NIH) 77-1042

# NATIONAL INSTITUTES OF HEALTH

## Research and Development Contracts

Fiscal Year 1976 and  
Transition Quarter Funds



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service      National Institutes of Health



**DISCRIMINATION PROHIBITED:** Under provisions of applicable public laws enacted by Congress since 1964, no person in the United States shall, on the ground of race, color, national origin, sex, or handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. In addition, Executive Order 11141 prohibits discrimination on the basis of age by contractors and subcontractors in the performance of Federal contracts. Therefore, the National Institutes of Health grants and awards program, like every program or activity receiving financial assistance from the Department of Health, Education, and Welfare, must be operated in compliance with these laws and executive order.

# **NATIONAL INSTITUTES OF HEALTH**

## **Research and Development Contracts**

**Fiscal Year 1976 and  
Transition Quarter Funds**

**U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE**  
**Public Health Service                      National Institutes of Health**

**DHEW Publication No. (NIH) 77-1044**

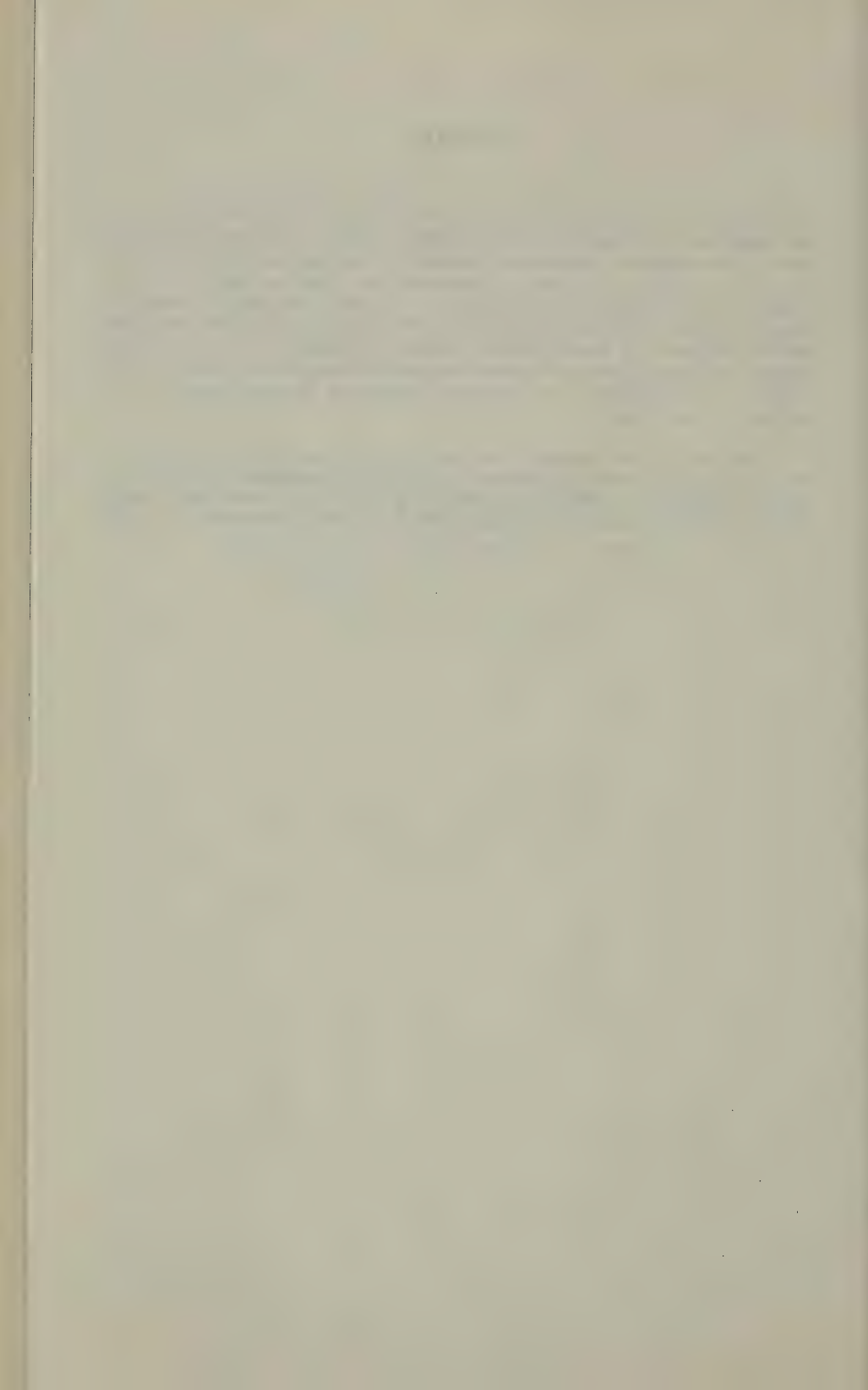
Prepared by  
NATIONAL INSTITUTES OF HEALTH  
DIVISION OF RESEARCH GRANTS  
Statistics and Analysis Branch



## **PREFACE**

The mission of the National Institutes of Health is to protect and improve the health of the American people. To achieve this goal, NIH conducts biomedical research in its own laboratories; provides grants to nonprofit organizations and academic institutions for research; provides grants for the training of research investigators; supports biomedical communications through programs and activities of the National Library of Medicine; and provides grants for facilities and other resources required for cancer research. In addition, the contract mechanism is used under appropriate circumstances.

Listings of NIH grants and contracts are prepared annually by the Division of Research Grants. This book presents a listing of contracts awarded from fiscal year 1976 funds and from funds available for the transition quarter, July 1 through September 30, 1976.



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## APPENDIX

TABLE I		TABLE II	
Summary of the results of the experiments		Summary of the results of the experiments	
Experiment	Results	Experiment	Results
1	...	2	...
3	...	4	...
5	...	6	...
7	...	8	...
9	...	10	...
11	...	12	...
13	...	14	...
15	...	16	...
17	...	18	...
19	...	20	...
21	...	22	...
23	...	24	...
25	...	26	...
27	...	28	...
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79	...	80	...
81	...	82	...
83	...	84	...
85	...	86	...
87	...	88	...
89	...	90	...
91	...	92	...
93	...	94	...
95	...	96	...
97	...	98	...
99	...	100	...

TABLE I  
Summary of the results of the experiments

TABLE II  
Summary of the results of the experiments

TABLE III  
Summary of the results of the experiments

TABLE IV  
Summary of the results of the experiments

TABLE V  
Summary of the results of the experiments

TABLE VI  
Summary of the results of the experiments

TABLE VII  
Summary of the results of the experiments

TABLE VIII  
Summary of the results of the experiments

TABLE IX  
Summary of the results of the experiments

TABLE X  
Summary of the results of the experiments

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Summary of the results of the experiments

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TABLE XIV  
Summary of the results of the experiments

## INTRODUCTION

### *Coverage*

This volume presents research and development and cancer control contracts which were awarded by the National Institutes of Health from fiscal year 1976 and transition quarter funds and which were reported to the NIH central record system (IMPAC) as of December 28, 1976. Contracts reported in other systems at NIH are excluded from this report.

The awards shown in this volume are those made from fiscal year 1976 funds, and those with an effective date falling within the transition quarter, July 1 through September 30, 1976. The inclusion of the three additional months was necessitated for compliance with the Congressional Budget and Impoundment Control Act of 1974, P. L. 93-344, which changed the beginning of the fiscal year from July 1 to October 1.

### *Appendix*

Organizations appearing in more than one geographical location, or requiring a clarifying comment, are listed in the Appendix in alphabetic sequence.





## TECHNICAL NOTE

### *Explanation of the Contract Mechanism*

The increasing importance of research contracts in the NIH extramural research programs has generated considerable analysis and discussion covering, among other aspects, the development of criteria for use of the contract mechanism. These criteria as listed in the NIH Guide for Grants and Contracts, Vol. 5, No. 4, April 21, 1976, are as follows:

*BASIC CRITERIA* Contracts are used for procurement of research and development when the following considerations obtain:

- a. the NIH procures a specific service or defined end product, including research, development, and related activities for identified NIH program needs, e. g., evaluation studies, technical assistance, surveys, consulting services, training projects where NIH selects the individuals or specifies the content of the program, planning for NIH use, production of publications or audiovisual materials (other than as results of R & D (research and development) projects or as proceedings of scientific conferences which are not being procured for use by the Government; and
- b. the NIH exercises direction or control under terms of the agreement by specifying the scope of the work and manner of performance and requires responsiveness by the performer in the event a change in direction of the effort is necessitated by program developments; and
- c. NIH staff closely monitors technical and administrative performance during the course of the activity to ensure that work on the project is accomplished in accordance with terms of the agreement.

*MANDATORY USE OF CONTRACTS* Notwithstanding any of the foregoing, selection of contracts is mandatory whenever:

- a. an award is made to a commercial, i.e., profit-making, organization; or
- b. material having a security classification is involved.

### *Organization Identification*

In this presentation of research contracts, emphasis is placed on listing the organizations in the city and State of the unit in which professional responsibility of the project director lies. The major part of contractual activities are conducted by universities, research foundations, and commercial and industrial organizations across the Nation. Study of grantee organizations in the United States has led to the following qualifications in the listing of their names:

1. Within a given city, if an institution of higher education belonging to a system of higher education is comprised of two or more components, and each component has equal standing in the system, the name of the component is shown after the name of the institution.
2. If a foundation has been established for the purpose of receiving and administering funds, the name and location of the organization having professional responsibility for the contract are shown rather than the name and location of the foundation. The name of the foundation is indicated in the Appendix if it differs materially from the name of the organization.
3. In the listing of governmental organizations, Federal as well as non-Federal, the name of the parent department precedes that of the individual component, and there are as many listings within a given city as there are components of the organization receiving contracts.

In the case of industrial organizations and associations, professional responsibility is assumed to reside at the address of the contractor and not necessarily at the "site of performance." Divisions of parent organizations are shown if they are indicated on the contract, and subsidiaries are linked to parent organizations when the relationship is known.

These qualifications do not apply to foreign organizations or in all cases to organizations in the United States, either because of insufficient information or because of an organizational structure unique to a particular organization.

Organizations appearing in more than one geographical location or requiring a clarifying comment are listed in the Appendix in alphabetic sequence.

## ABBREVIATIONS

The component of NIH supporting a contract is indicated by the code letters in the left-hand column. These code letters form part of the identification of the research contract number in Table 2.

<i>Code for supporting component</i>		<i>Abbreviation of supporting component</i>
	Institutes and Research Divisions*.....	IRD
AG	National Institute on Aging.....	NIA
AI	National Institute of Allergy and Infectious Diseases.....	NIAID
AM	National Institute of Arthritis, Metabolism, and Digestive Diseases.....	NIAMDD
	National Cancer Institute.....	NCI
CB	Division of Cancer Biology and Diagnosis.....	DCBD
CM	Division of Cancer Treatment.....	DCT
CN	Division of Cancer Control and Rehabilitation....	DCCR
CO	Office of the Director, NCI.....	ODNCI
CP	Division of Cancer Cause and Prevention.....	DCCP
CL	Clinical Center.....	CLC
CT	Division of Computer Research and Technology.....	DCRT
DE	National Institute of Dental Research.....	NIDR
ES	National Institute of Environmental Health Sciences.....	NIHES
EY	National Eye Institute.....	NEI
GM	National Institute of General Medical Sciences....	NIGMS
HD	National Institute of Child Health and Human Development.....	NICHHD
HL	National Heart, Lung, and Blood Institute.....	NHLBI
HB	Division of Blood Diseases and Resources.....	DBDR
HI	Division of Intramural Research.....	DIR
HO	Office of the Director, NHLBI.....	ODHLBI
HR	Division of Lung Diseases.....	DLD
HV	Division of Heart and Vascular Diseases.....	DHVD
NS	National Institute of Neurological and Communicative Disorders and Stroke.....	NINCDS
RG	Division of Research Grants.....	DRG
RR	Division of Research Resources.....	DRR
RS	Division of Research Services.....	DRS
LM	National Library of Medicine.....	NLM
OD	Office of the Director, NIH.....	OD

\*For convenience of presentation, includes the following service components: Clinical Center, Division of Computer Research and Technology, Division of Research Grants, Division of Research Resources, and Division of Research Services.



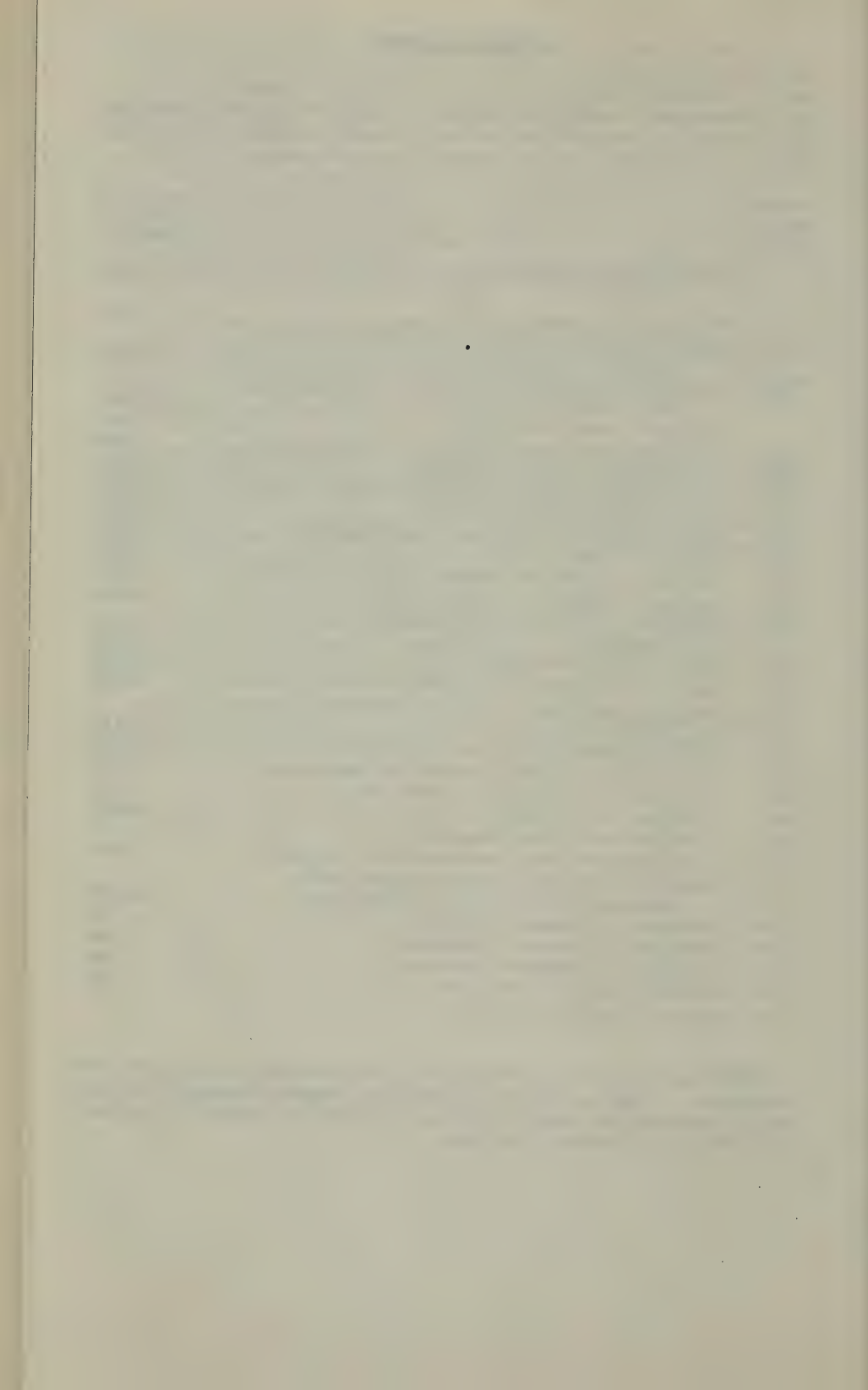


TABLE 1-A.—SUMMARY OF NIH RESEARCH AND DEVELOPMENT CONTRACTS, BY  
SUPPORTING COMPONENT, FISCAL YEAR 1976 AND TRANSITION QUARTER

Supporting Component	Number	Dollars
Total National Institutes of Health..... (NIH) .....	2,257	483,904,155
Total Institutes and Research Divisions*.... (IRD) .....	2,160	471,958,228
Clinical Center..... (CLC) .....	5	1,486,266
Division of Computer Research and Technology..... (DCRT) .....	2	26,946
Division of Research Grants..... (DRG) .....	1	60,000
Division of Research Resources..... (DRR) .....	26	6,599,603
Division of Research Services..... (DRS) .....	6	540,869
National Cancer Institute..... (NCI) .....	1,218	307,639,191
Division of Cancer Biology and Diagnosis.....	315	38,847,578
Division of Cancer Cause and Prevention.....	421	105,709,814
Division of Cancer Control.....	206	51,764,535
Division of Cancer Treatment.....	243	65,500,011
Office of the Director, NCI.....	33	45,817,253
National Eye Institute..... (NEI) .....	26	3,199,665
National Heart, Lung, and Blood Institute (NHLBI)...	309	84,763,322
Division of Blood Diseases and Resources.....	63	8,494,272
Division of Heart and Vascular Diseases.....	161	67,758,537
Division of Intramural Research.....	6	903,831
Division of Lung Diseases.....	75	7,345,281
Office of the Director, NHLBI.....	4	261,401
National Institute of Allergy and Infectious Diseases..... (NIAID)...	124	12,127,429
National Institute of Arthritis, Metabolism, and Digestive Diseases..... (NIAMDD) ..	82	12,039,183
National Institute of Child Health and Human Development..... (NICHD)...	178	21,045,570
National Institute of Dental Research..... (NIDR) .....	62	4,099,441
National Institute of Environmental Health Sciences..... (NIEHS)...	24	3,912,889
National Institute of General Medical Sciences..... (NIGMS)...	9	1,227,433
National Institute of Neurological and Com- municative Disorders and Stroke..... (NINCDS) ..	79	12,367,162
National Institute on Aging..... (NIA) .....	9	823,259
Total National Library of Medicine..... (NLM) .....	86	9,089,887
Total Office of the Director..... (OD) .....	11	2,856,040

\*For convenience of presentation, includes the following service components: Clinical Center, Division of Computer Research and Technology, Division of Research Grants, Division of Research Resources, and Division of Research Services.

TABLE 1-B.--SUMMARY OF NIH RESEARCH AND DEVELOPMENT CONTRACTS,  
BY SUPPORTING COMPONENT, FISCAL YEAR 1976

Supporting Component	Number	Dollars
Total National Institutes of Health..... (NIH) ....	<u>2,036</u>	<u>410,885,775</u>
Total Institutes and Research Divisions*..... (IRD) ....	<u>1,967</u>	<u>402,594,349</u>
Clinical Center..... (CLC) ....	5	715,870
Division of Computer Research and Technology..... (DCRT) ....	2	26,946
Division of Research Grants..... (DRG) ....	-	--
Division of Research Resources..... (DRR) ....	25	5,182,585
Division of Research Services..... (DRS) ....	<u>5</u>	<u>442,206</u>
National Cancer Institute..... (NCI) ....	<u>1,109</u>	<u>262,750,805</u>
Division of Cancer Biology and Diagnosis.....	305	34,118,980
Division of Cancer Cause and Prevention.....	360	87,795,552
Division of Cancer Control.....	188	41,486,653
Division of Cancer Treatment.....	223	55,868,200
Office of the Director, NCI.....	<u>33</u>	<u>43,481,420</u>
National Eye Institute..... (NEI) ....	<u>25</u>	<u>2,236,280</u>
National Heart, Lung, and Blood Institute... (NHLBI) ..	<u>284</u>	<u>76,138,220</u>
Division of Blood Diseases and Resources.....	46	6,451,852
Division of Heart and Vascular Diseases.....	157	61,886,410
Division of Intramural Research.....	6	903,831
Division of Lung Diseases.....	71	6,634,726
Office of the Director, NHLBI.....	<u>4</u>	<u>261,401</u>
National Institute of Allergy and Infectious Diseases..... (NIAID) ..	113	10,194,106
National Institute of Arthritis, Metabolism, and Digestive Diseases..... (NIAMDD) .	72	6,485,005
National Institute of Child Health and Human Development..... (NICHD) ..	160	18,289,919
National Institute of Dental Research..... (NIDR) ...	57	3,719,624
National Institute of Environmental Health Sciences..... (NIEHS) ..	23	3,318,155
National Institute of General Medical Sciences..... (NIGMS) ..	9	1,227,433
National Institute of Neurological and Com- municative Disorders and Stroke..... (NINCDS) .	69	11,043,936
National Institute on Aging..... (NIA) ....	<u>9</u>	<u>823,259</u>
Total National Library of Medicine..... (NLM) ....	<u>60</u>	<u>6,778,712</u>
Total Office of the Director..... (OD) .....	9	1,512,714

\*For convenience of presentation, includes the following service components: Clinical Center, Division of Computer Research and Technology, Division of Research Grants, Division of Research Resources, and Division of Research Services.

**Table 2.—NIH Research and Development Contracts, by Area,  
Organization, and Project Director, Fiscal Year 1976  
and Transition Quarter**

Project director	Purpose of contract	Contract No.	Dollars
GRAND TOTAL, 2,257 CONTRACTS.....			483,904,155
UNITED STATES,* 2,128 CONTRACTS.....			472,474,803
OTHER COUNTRIES, 129 CONTRACTS.....			11,429,352

### UNITED STATES

#### ALABAMA

##### BIRMINGHAM

<b>SOUTHERN RESEARCH INSTITUTE</b>		<b>ZIP CODE 35205</b>		
BENNETT, LEE L.....	BIOCHEMISTRY AND MOLECULAR BIOLOGY OF ANTITUMOR DRUGS.....	5N01 CM43784-02	400,804	
COWSAR, DONALD R.....	DEVELOPMENT OF MATERIALS FOR MAXILLOFACIAL PROSTHESIS.....	5N01 DE42435-04	22,149	
COWSAR, DONALD R.....	FLUORIDE RELEASING SYSTEM FOR ORAL USE.....	5N01 DE42446-04	98,593	
DAVIS, THOMAS A.....	ACTIVATED CARBON FIBERS.....	3N01 AM22208-08	115,976	
DENINE, PAUL E.....	PHARMACOLOGY OF POTENTIAL ANTILEUKEMIA DRUGS.....	5N01 CM57000-02	360,545	
HILL, DONALD L.....	STUDY OF ANTITUMOR AGENTS.....	5N01 CM43780-06	457,008	
HILL, DONALD L.....	METABOLISM OF CARCINOGENIC COMPOUNDS.....	5N01 CP55721-02	91,520	
MONTGOMERY, JOHN A.....	SYNTHESIS OF POTENTIAL ANTICANCER AGENTS.....	5N01 CM43762-03	659,728	
SCHABEL, FRANK M, JR.....	DEVELOPMENT OF ANTITUMOR THERAPY.....	5N01 CM43756-02	2,370,000	
WILKOFF, LEE J.....	ORGAN-CULTURE ASSAY OF VITAMIN A ANALOGS.....	3N01 CP22064-04	455,009	
ORGANIZATION TOTAL	10	5,031,323		

<b>UNIVERSITY OF ALABAMA IN BIRMINGHAM</b>		<b>ZIP CODE 35294</b>		
BARNES, GARY T.....	SYSTEM TO IMPROVE X-RAY IMAGING, CONTRAST AND SHARPNESS.....	5N01 CB53865-01	63,542	
BENNETT, J CLAUDE.....	BIOCHEMISTRY OF NORMAL AND TUMOR-CELL SURFACE ANTIGENS.....	2N01 CB44009-02	52,144	
BRANSCOMB, BEN V.....	SUPPORT FOR REHABILITATION FACILITY FOR CANCER PATIENTS.....	3N01 CM35032-04	20,309	
BUTTERWORTH, C E, JR.....	ORAL CONTRACEPTIVE STEROIDS AND FOLIC ACID METABOLISM.....	3N01 HD42862-03	95,223	
CH'EN, LAWRENCE T.....	DEVELOP A CENTRAL FACILITY TO STUDY ADENINE ARABINOSIDE.....	5N01 AI22532-09	258,643	
CURTISS, ROY, III.....	E COLI HOSTS FOR PHAGE AND PLASMID VECTORS.....	1N01 AI62508-00	217,842	
DURANT, JOHN R.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CM55231-03	1,568	
GOSMAN, MARILYN R.....	CANCER TRAINING FOR PHYSICAL OR OCCUPATIONAL THERAPISTS.....	5N01 CM45121-01	24,381	
HAMILTON, VIRGINIA V.....	PREPARATION OF A BIOGRAPHIC MONOGRAPH.....	1N01 LM64703-00	51,452	
LINDSEY, J RUSSELL.....	OPERATION OF A PATHOLOGICAL MONITORING SERVICES CENTER.....	1N01 CM67083-00	111,813	
MADDOX, WILLIAM A.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CM45129-03	124,000	
MC GHEE, JERRY R.....	SALIVARY IMMUNOGLOBULIN A DEFICIENCY.....	5N01 DE52456-03	85,470	
RUSSELL, RICHARD O, JR.....	COLLABORATIVE STUDIES IN CORONARY ARTERY SURGERY.....	1N01 HV62922-00	144,949	
SCHNAPER, HAROLD W.....	STUDY OF HYPERTENSION IN THERAPY.....	2N01 HV12440-09	453,080	
SCHNAPER, HAROLD W.....	SUPPORT FOR CLINICAL CENTER FOR CORONARY HEART DISEASE.....	2N01 HV33107-03	524,876	
SCHROENLOHER, RALPH E.....	DETECTION OF ANTIGEN-ANTIBODY COMPLEXES IN CANCER.....	2N01 CB53893-01	86,265	
SHEFFIELD, L THOMAS.....	ESTABLISHMENT OF A LIPID RESEARCH CLINIC.....	2N01 HV12159-08	1,121,085	
SHIOTA, TETSUO.....	CARIOGENIC STREPTOCOCCI TO PREVENT DENTAL CARIES.....	1N01 DE62491-00	132,216	

\* Includes Puerto Rico.

NOTE: For information as to how this table is structured, see Technical Note, p. ix. Also, for comments on organizations, see Appendix.



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ALABAMA—Continued</b>			
WEST, SEYMOUR S.....	DEVELOP & EVALUATE NEW STAINS & OTHER OPTICAL MARKERS.....	5N01 CB43960-01	80,666
ORGANIZATION TOTAL	19 3,649,524		
<b>MONTGOMERY</b>			
ALABAMA STATE DEPARTMENT OF PUBLIC HEALTH	ZIP CODE 36104		
CAIN, MAX G.....	EXPANSION OF ALABAMA CERVICAL CANCER SCREENING PROGRAM.....	2N01 CN55090-04	397,000
ORGANIZATION TOTAL	1 397,000		
<b>PRATTVILLE</b>			
SOUTHERN ANIMAL FARMS	ZIP CODE 36067		
CURLEE, JOSEPH.....	MAINTAIN RODENT PRODUCTION CENTER.....	5N01 CM53845-01	134,660
ORGANIZATION TOTAL	1 134,660		
STATE TOTAL	31 9,212,507		
<b>ALASKA</b>			
<b>COLLEGE</b>			
UNIVERSITY OF ALASKA SYSTEM—UNIVERSITY OF ALASKA	ZIP CODE 99701		
TISDEL, MYRON.....	DEVELOP AND SUPPORT AN EARTH TERMINAL FACILITY.....	4N01 LM64742-00	18,405
ORGANIZATION TOTAL	1 18,405		
STATE TOTAL	1 18,405		
<b>ARIZONA</b>			
<b>PHOENIX</b>			
ARIZONA STATE DEPARTMENT OF HEALTH SERVICES	ZIP CODE 85007		
DANDOEY, SUZANNE.....	IMPLEMENT A CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN65283-00	262,822
ORGANIZATION TOTAL	1 262,822		
<b>TEMPE</b>			
ARIZONA STATE UNIVERSITY	ZIP CODE 85281		
MANDARINO, LAWRENCE J.....	INVESTIGATE DIABETES MELLITUS IN THE SAND RAT.....	1N01 AM62206-00	10,854
PETTIT, GEORGE R.....	ISOLATE ANTITUMOR AGENTS FROM NATURAL PRODUCTS.....	3N01 CM12308-09	10,700
PETTIT, GEORGE R.....	ISOLATION OF ANTINEOPLASTIC AGENTS.....	1N01 CM67048-00	117,712
ORGANIZATION TOTAL	3 139,266		
<b>TUCSON</b>			
UNIVERSITY OF ARIZONA	ZIP CODE 85721		
COLE, JACK R.....	PURIFICATION OF PLANT EXTRACTS.....	3N01 CM33750-05	71,000
GROSS, JOSEPH F.....	MICROCIRCULATION/MOLECULAR TRANSPORT IN MAMMARY CANCER.....	1N01 CB63981-00	100,900
HRUBY, VICTOR J.....	SYNTHESIS OF SECRETIN, GLUCAGON, AND SELECTED ANALOGS.....	2N01 AM12125-06	8,248
OVITT, THERON W.....	DEVELOPMENT OF METHOD FOR VISUALIZING ARTERIAL STRUCTURE.....	5N01 HV52969-01	127,575
PRESENT, ARTHUR J.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55097-02	284,933

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ARIZONA—Continued</b>			
SALMON, SYDNEY E.....	STAGING SYSTEM FOR PATIENTS WITH MULTIPLE MYELOMA.....	2N01 CM33713-06	183,195
SCULLY, MARLAN O.....	NONINVASIVE ASSESSMENT OF PULMONARY HYPERTENSION.....	1N01 HR62919-00	99,230
STRUNK, ROBERT C.....	POTENTIAL BIOASSAY FOR CHEMICAL CARCINOGENS.....	1N01 CP65778-00	98,870
WOOLFENDEN, J M.....	DEVELOP AND EVALUATE RADIOISOTOPIC SURFACE MARKERS.....	1N01 CB64012-00	315,077
ORGANIZATION TOTAL	9 1,289,028		
STATE TOTAL	13 1,691,116		
<b>ARKANSAS</b>			
<b>LITTLE ROCK</b>			
<b>ARKANSAS STATE DEPARTMENT OF HEALTH ZIP CODE 72201</b>			
STEINKAMP, RUTH.....	EXPANSION OF ARKANSAS CERVICAL CANCER SCREENING PROGRAM.....	2N01 CN55205-01	202,154
ORGANIZATION TOTAL	1 202,154		
<b>UNIVERSITY OF ARKANSAS MEDICAL SCIENCES CAMPUS ZIP CODE 72201</b>			
FLANIGAN, WILLIAM J.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI52511-01	25,491
MORRIS, MANFORD D.....	PRIMATE MODELS OF ATHEROSCLEROSIS AND HYPERTENSION.....	1N01 HV62906-00	380,710
SUEN, JAMES Y.....	CANCER CONTROL PROJECT IN HEAD AND NECK CANCER.....	2N01 CN55253-02	225,656
ORGANIZATION TOTAL	3 631,857		
STATE TOTAL	4 834,011		
<b>CALIFORNIA</b>			
<b>BERKELEY</b>			
<b>ANDROS, INC. ZIP CODE 94710</b>			
MC CLATCHIE, EDWARD A.....	DEVELOP A CARBON DIOXIDE ANALYZER.....	3N01 GM52124-02	324,031
PORTNER, PEER M.....	FABRICATION OF A PROTOTYPE PULMONARY-FUNCTION ANALYZER.....	3N01 HR33002-07	72,353
PORTNER, PEER M.....	DEVELOPMENT OF LEFT VENTRICULAR ASSIST SYSTEM.....	5N01 HV42914-05	1,347,937
ORGANIZATION TOTAL	3 1,744,321		
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY—DEPARTMENT OF HEALTH ZIP CODE 94704</b>			
LENNETTE, EDWIN H.....	ROLE OF ONCOGENIC VIRUSES IN CAUSATION OF CANCER.....	2N01 CP43209-02	150,000
ORGANIZATION TOTAL	1 150,000		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT BERKELEY ZIP CODE 94720</b>			
COLE, ROGER D.....	MAMMARY GLAND RESPONSIVENESS TO MULTIPLE HORMONES.....	2N01 CB43865-02	60,000
DAVIS, KINGSLEY.....	STUDY OF FAMILY FORMATIONS, KEY TRENDS AND PATTERNS.....	2N01 HD32728-07	110,872
DAVIS, KINGSLEY.....	STUDY OF CHILDLESSNESS AND ONE-CHILD FAMILIES.....	1N01 HD62825-00	61,764
DAVIS, KINGSLEY.....	HOW MOTHER'S AGE AND CIRCUMSTANCES AFFECT CHILDREN.....	1N01 HD62857-00	74,445
DUESBERG, PETER H.....	COMPARATIVE STUDIES OF MURINE AND AVIAN TUMOR VIRUSES.....	9N01 CP61001-00	133,000
HACKETT, ADELINE J.....	HUMAN MAMMARY TUMOR VIROLOGY.....	2N01 CP53502-03	229,000
MADIN, STEWART H.....	ASSOCIATED RESEARCH IN VIRAL ONCOLOGY.....	2N01 CP33237-05	1,150,183
MARGEN, SHELTON.....	EFFECTS OF CONTRACEPTIVE STEROIDS ON TRACE ELEMENTS.....	1N01 HD62835-00	39,428
MARTIN, G STEVEN.....	TRANSFORMATION OF DIFFERENTIATING CELLS.....	2N01 CP53537-02	53,610
MISHELL, ROBERT L.....	ANALYSIS OF SERUM REQUIREMENTS FOR IMMUNOLOGICAL STUDIES.....	2N01 CB23883-03	139,216
PAFFENBARGER, RALPH S, JR.....	EPIDEMIOLOGY OF PRE- AND POST-MENOPAUSAL BREAST CANCER.....	1N01 CB63998-00	83,400
SYME, S LEONARD.....	ACCULTURATION AND CORONARY HEART DISEASE AMONG JAPANESE.....	2N01 HV42980-02	80,408
WILLIAMS, MICHAEL C.....	SHEAR-INDUCED HEMOLYSIS.....	5N01 HV32952-06	37,555
ORGANIZATION TOTAL	13 2,252,881		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
<b>CLAREMONT</b>			
CLAREMONT COLLEGES SYSTEM—POMONA COLLEGE      ZIP CODE 91711			
HANSCH, CORWIN.....	STRUCTURE ACTIVITY STUDIES AMONG ANTICANCER AGENTS.....	1N01 CM67062-00	47,782
SMITH, NELSON.....	STRUCTURAL PROPERTIES OF CANCER THERAPEUTIC AGENTS.....	2N01 CM33703-05	43,800
ORGANIZATION TOTAL	2      91,582		
<b>CUPERTINO</b>			
TYMSHARE, INC.      ZIP CODE 95014			
NOT APPLICABLE.....	DATA COMMUNICATION SERVICES.....	3N01 LM44711-06	105,000
ORGANIZATION TOTAL	1      105,000		
<b>DAVIS</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT DAVIS      ZIP CODE 95616			
BORHANI, NEMAT O.....	COOPERATIVE STUDY OF HYPERTENSION.....	2N01 HV22945-06	865,733
BORHANI, NEMAT O.....	CENTER FOR THE ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52916-02	130,775
CARDIFF, ROBERT D.....	IN VITRO CULTIVATION OF MAMMARY TUMOR VIRUSES.....	3N01 CP33253-05	7,588
CARDIFF, ROBERT D.....	CULTIVATION OF HUMAN AND MOUSE MAMMARY TUMOR VIRUSES.....	9N01 CP61013-00	173,813
HENDRICKX, ANDREW G.....	SUPPORT FOR MONKEY COLONY.....	2N01 HD12088-09	290,305
KAWAKAMI, THOMAS G.....	COMPARATIVE LEUKEMIA AND SARCOMA VIRAL STUDIES.....	3N01 CP33242-04	431,125
MANNING, JARUE S.....	VIRAL ETIOLOGY OF MALIGNANT LYMPHOMA IN RHESUS MONKEYS.....	2N01 CP53504-01	138,570
RUEBNER, BORIS H.....	BIOLOGY OF NEOPLASTIC LIVER LESIONS IN MICE.....	1N01 CP65845-00	158,404
WELLINGS, SEFTON R.....	STUDY OF PRENEOPLASTIC LESIONS OF HUMAN MAMMARY GLAND.....	2N01 CB43908-02	150,000
ORGANIZATION TOTAL	9      2,346,313		
<b>DUARTE</b>			
CITY OF HOPE MEDICAL CENTER      ZIP CODE 91010			
MELNYK, JOHN H.....	SEMIAUTOMATED SYSTEM FOR CHROMOSOME PREPARATION.....	3N01 HD52843-01	98,973
OHNO, SUSUMU.....	PATHOLOGICAL HISTORY OF THE MAMMARY GLAND.....	2N01 CB33907-03	92,900
ORGANIZATION TOTAL	2      191,873		
<b>EL MONTE</b>			
AKZONA, INC.—ORGANON, INC.      ZIP CODE 91731			
WELLS, A F.....	DESIGN OF AN AUTOMATED RAPID VIRUS DETECTION SYSTEM.....	1N01 GM62160-00	80,557
ORGANIZATION TOTAL	1      80,557		
<b>GILROY</b>			
SIMONSEN LABORATORIES      ZIP CODE 95020			
SIMONSEN, HARRY C.....	GENETIC CENTER OF RODENTS—BIOCONTAINMENT ENVIRONMENT.....	5N01 CM53817-01	586,640
SIMONSEN, HARRY C.....	MAINTAIN RODENT PRODUCTION CENTER.....	5N01 CM53847-02	220,175
ORGANIZATION TOTAL	2      806,815		
<b>HAYWOOD</b>			
G. D. SEARLE & COMPANY—SEARLE CARDIO-PULMONARY GROUP      ZIP CODE 94545			
ROBINSON, THOMAS C.....	MEASURE PULMONARY FUNCTION IN INFANTS AND CHILDREN.....	1N01 HR62904-00	92,670
ROBINSON, THOMAS C.....	FABRICATION OF IMPLANTABLE ARTIFICIAL HEART DEVICES.....	2N01 HV12035-18	552,752
ORGANIZATION TOTAL	2      645,422		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>				
<b>HUNTINGTON BEACH</b>				
<b>INSGROUP, INC. ZIP CODE 92647</b>				
ROBINSON, DONALD R.....	DESIGN & TEST INSTRUCTIONAL MATERIAL TO DETECT DIABETES.....	1N01 LM64733-00	20,284	
ORGANIZATION TOTAL	1 20,284			
<b>MC DONNELL DOUGLAS CORPORATION ZIP CODE 92647</b>				
KELTON, ARDEN A.....	STUDY SUBPOPULATIONS OF PERIPHERAL LYMPHOCYTES IN MS.....	9N01 NS62335-00	44,401	
MARTINI, W R.....	DEVELOP A MODIFIED STIRLING CYCLE ENGINE.....	5N01 HV42901-03	1,547,140	
ORGANIZATION TOTAL	2 1,591,541			
<b>IRVINE</b>				
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT IRVINE ZIP CODE 92664</b>				
KINGSBURY, DAVID T.....	RELATION OF HERPES SIMPLEX VIRUS TO UROGENITAL CANCER.....	3N01 CP53560-02	114,690	
PFEFFER, ROBERT I.....	STUDY OF ESTROGEN USAGE AND RISK OF STROKE.....	3N01 AG32770-04	7,817	
PFEFFER, ROBERT I.....	ESTROGEN USAGE BY POSTMENOPAUSAL WOMEN—CORONARY RISK.....	1N01 AG62134-00	162,612	
ORGANIZATION TOTAL	3 285,119			
<b>LA JOLLA</b>				
<b>CDP ASSOCIATES ZIP CODE 92037</b>				
PRUETT, C D.....	OPERATIONAL IMPACT EVALUATION SYSTEM NCI CANCER CENTERS.....	2N01 CB53902-04	292,945	
ORGANIZATION TOTAL	1 292,945			
<b>SALK INSTITUTE FOR BIOLOGICAL STUDIES ZIP CODE 92037</b>				
COHN, MELVIN.....	SUPPLY OF IMMUNE-RELATED CELL LINES.....	2N01 CB23886-06	72,042	
HOLLEY, ROBERT W.....	STUDY OF CONTROL OF THE CELL CYCLE.....	3N01 CP33405-02	161,834	
NICOLSON, GARTH L.....	STUDY OF SUPRAMOLECULAR ORGANIZATION OF CELL SURFACES.....	2N01 CB33879-02	292,425	
ORGANIZATION TOTAL	3 526,301			
<b>SCRIPPS CLINIC AND RESEARCH FOUNDATION ZIP CODE 92037</b>				
DANDLIKER, WALTER B.....	RESPONSIVENESS OF MAMMARY-GLAND CELLS TO HORMONES.....	2N01 CB43905-02	90,000	
DIXON, FRANK J.....	IMMUNOLOGIC STUDY OF RNA TYPE C VIRUSES.....	3N01 CP43375-02	796,267	
EDGINGTON, THOMAS S.....	IMMUNOHISTOCHEMICAL ASSAY OF HEPATITIS ANTIGENS.....	3N01 AI32509-04	27,812	
FELDMAN, JOSEPH D.....	ROLE OF CIRCULATING TUMOR ANTIGENS IN IMMUNOTHERAPY.....	2N01 CB43874-02	103,424	
MEINKE, WILLIAM J.....	DETECTION OF VIRAL GENOMES IN HUMAN NEUROLOGIC DISEASES.....	2N01 NS42309-03	90,000	
NAKAMURA, ROBERT M.....	CEA-S IN IMMUNODIAGNOSIS OF CARCINOMA OF THE INTESTINES.....	2N01 CB53934-01	107,669	
PELLEGRINO, MICHELE A.....	PURIFICATION OF HUMAN TUMOR ASSOCIATED ANTIGENS.....	2N01 CB53899-01	138,058	
REISFELD, RALPH A.....	STUDY OF SOLUBLE HUMAN TUMOR-SPECIFIC ANTIGENS.....	2N01 CP43277-02	71,909	
RUSSELL, STEPHEN W.....	CHARACTERIZATION OF IMMUNE-RELATED CELLS IN TUMOR MASSES.....	2N01 CB44001-02	98,000	
THEOFILOPOULOS, ARGYRIOS N.....	DETECT CIRCULATING ANTIGEN-ANTIBODY COMPLEXES IN CANCER.....	2N01 CB53952-01	106,391	
WILSON, CURTIS B.....	STUDY OF ANTIBODIES IN DISEASED HUMAN KIDNEYS.....	2N01 AI42505-04	175,000	
ORGANIZATION TOTAL	11 1,804,530			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO ZIP CODE 92037</b>				
BROWN, W VIRGIL.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV12160-10	1,912,719	
HELINSKI, DONALD R.....	CONSTRUCT PLASMID CLONING VEHICLE FOR E. COLI HOSTS.....	1N01 AI62509-00	55,598	
KOHNE, DAVID E.....	VIRUS DETECTION IN NERVOUS SYSTEM DISEASE TISSUE.....	1N01 NS62336-00	151,660	
SELL, STEWART.....	STUDY OF FETOGLOBULINS AND INDUCTION OF HEPATOMAS.....	5N01 CP33403-04	181,427	
SHIMKIN, MICHAEL B.....	STUDY OF PULMONARY TUMORS FOR COCARCINOGENIC BIOASSAY.....	5N01 CP33232-09	170,885	
TIMMS, R M.....	NOCTURNAL OXYGEN THERAPY IN HYPOXIC LUNG DISEASE.....	1N01 HR62946-00	16,230	
WEST, JOHN B.....	RESPIRATORY FUNCTION AT EXTREME ALTITUDES.....	1N01 HR62915-00	30,455	
ORGANIZATION TOTAL	7 2,518,974			



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
<b>LOS ANGELES</b>			
<b>CEDARS-SINAI MEDICAL CENTER ZIP CODE 90048</b>			
MAXWELL, MORTON H .....	DEVELOPMENT OF DIALYSIS SYSTEM .....	2N01 AM32225-05	131,056
MAXWELL, MORTON H .....	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION .....	2N01 HV12436-08	731,787
SCHOENFELD, LESLIE J. ....	COOPERATIVE CLINICAL STUDY OF DISSOLUTION OF GALLSTONES .....	5N01 AM32216-04	2,504,013
WADE, MACLYN E .....	EVALUATE TWO METHODS OF NATURAL FAMILY PLANNING .....	1N01 HD62826-00	538,183
ORGANIZATION TOTAL	4 3,905,039		
<b>CHARLES R. DREW POSTGRADUATE MEDICAL SCHOOL ZIP CODE 90059</b>			
BLOOM, RONALD S .....	NEONATAL RESPIRATORY INSUFFICIENCY .....	5N01 HR52958-01	197,145
ORGANIZATION TOTAL	1 197,145		
<b>CHILDREN'S HOSPITAL OF LOS ANGELES ZIP CODE 90027</b>			
BENEDICT, WILLIAM F .....	FIBRINOLYSIS AS A PARAMETER OF IN VITRO TRANSFORMATION .....	3N01 CP55641-01	96,735
DUKES, PETER P .....	SOURCE OF HUMAN URINARY ERYTHROPOIETIN .....	1N01 HB62958-00	209,162
HAYES, DANIEL M .....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY .....	1N01 CP65828-00	153,719
KARON, MYRON R .....	SUPPORT FOR CLINICAL CHEMOTHERAPY PROGRAM .....	2N01 CN35013-06	79,000
SIEGEL, STUART E .....	EVALUATION OF PROTECTED ENVIRONMENTS .....	3N01 CM53831-02	375,000
ORGANIZATION TOTAL	5 913,616		
<b>HEALTH SCIENCES COMMUNICATIONS ASSOCIATION ZIP CODE 90007</b>			
NOT APPLICABLE .....	20 SELF-INSTRUCTIONAL UNITS IN BIOMEDICAL COMMUNICATION .....	1N01 LM64710-00	10,000
ORGANIZATION TOTAL	1 10,000		
<b>LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY-UNIV OF SO CALIFORNIA MED CTR ZIP CODE 90033</b>			
BERNSTEIN, GERALD S .....	COLLABORATIVE STUDY OF THE EFFECT OF VASECTOMY .....	2N01 HD32757-04	230,397
HODGMAN, JOAN E .....	DEVELOPMENTAL PHENOMENA AND THE OCCURRENCE OF SIDS .....	3N01 HD22777-08	202,674
WU, PAUL Y .....	STUDY OF PHOTOTHERAPY FOR NEONATAL HYPERBILIRUBINEMIA .....	2N01 HD42823-06	26,924
ORGANIZATION TOTAL	3 459,995		
<b>PACIFIC BIO-MARINE SUPPLY COMPANY—PACIFIC BIO-MARINE LABORATORIES ZIP CODE 90066</b>			
FAY, RIMMON C .....	STUDY OF DEVELOPMENT OF LABORATORY MARICULTURE TECHNIQUE .....	5N01 RR42169-03	18,936
ORGANIZATION TOTAL	1 18,936		
<b>UMF SYSTEMS ZIP CODE 90066</b>			
NOT APPLICABLE .....	PRESERVATION MICROFILMING OF SELECTED BIOMEDICAL SERIALS .....	1N01 LM64726-00	158,600
ORGANIZATION TOTAL	1 158,600		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES ZIP CODE 90024</b>			
BABB, THOMAS L .....	ELECTRICAL STIMULATION OF THE CEREBELLUM .....	2N01 NS42331-03	112,980
BALUDA, MARCEL A .....	SEARCH FOR VIRAL DNA IN TISSUE FROM CANCER PATIENTS .....	3N01 CP33283-06	174,871
BATZDORF, ULRICH .....	THERAPY OF PATIENTS WITH BRAIN TUMORS .....	5N01 CM53752-02	55,497
BRESLOW, LESTER .....	HISTORY OF CANCER CONTROL .....	3N01 CN55172-04	42,414
BRESLOW, LESTER .....	EDUCATION FOR CANCER CONTROL .....	1N01 CM65194-00	282,168
BYFIELD, JOHN E .....	BIOCHEMICAL RATIONALES FOR COMBINED USE OF RADIOTHERAPY .....	5N01 CMA43791-03	92,811
CHASE, MICHAEL H .....	OPERATION OF INFORMATION CENTER .....	2N01 NS32306-09	376,658
CERRY, JAMES D .....	IMMUNOLOGICAL RESPONSES IN SMALLPOX VACCINATED CHILDREN .....	3N01 AI52523-02	4,738
CERRY, JAMES D .....	INFLUENZA STUDIES—VACCINE TRIALS, VIROLOGIC, CLINICAL .....	1N01 AI62510-00	112,939
DETILS, ROGER .....	STUDY OF PREVALENCE OF CHRONIC RESPIRATORY DISEASE .....	2N01 HR42913-02	102,000
EILBER, FREDERICK R .....	IMMUNOTHERAPY AS ADJUNCT TO CHEMOTHERAPY IN CARCINOMAS .....	2N01 CB53941-01	146,642
FAHEY, JOHN L .....	EVALUATE C. PARVUM IN ADVANCED BREAST AND LUNG CANCER .....	2N01 CB53939-01	96,135
FINEGOLD, SYDNEY M .....	STUDY OF FECAL FLORA .....	2N01 CP33380-04	217,657
GALE, ROBERT P .....	COLLECTION, FUNCTION AND TRANSFUSION OF GRANULOCYTES .....	1N01 HB62971-00	138,165
GOLD, RICHARD H .....	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER .....	2N01 CN55248-02	114,291

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
GONICK, HARVEY C.....	STUDY TRACE ELEMENT ABNORMALITIES IN CHRONIC UREMIA.....	1N01 AM62212-00	53,884
KOPPLE, JOEL D.....	NITROGEN METABOLISM IN UREMIA.....	2N01 AM32210-05	89,815
LAINE, JANICE E.....	MEASURES OF CHILDREN'S LANGUAGE PERFORMANCE.....	5N01 NS52322-01	124,145
MASSEY, FRANK J.....	HEALTH STATUS OF VASECTOMIZED MEN—COORDINATING CENTER.....	1N01 HD62807-00	106,400
MILLER, JAMES N.....	IN VITRO CULTIVATION OF TREPONEMA PALLIDUM.....	2N01 A42538-03	72,573
MORTON, DONALD L.....	STUDY OF HUMAN MELANOMA.....	3N01 CB43852-02	255,000
MORTON, DONALD L.....	HUMAN MELANOMA: EVALUATION OF BCG IMMUNOTHERAPY.....	9N01 CB64076-00	332,723
MYERS, LAWRENCE W.....	STUDY INFLUENZA A/NU/76 VACCINE IN MULTIPLE SCLEROSIS.....	1N01 A62515-00	27,744
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY SERVICES.....	2N01 LM34708-06	768,909
PARMELEE, ARTHUR H.....	DEVELOPMENT OUTCOME IN STUDY OF HIGH-RISK INFANTS.....	5N01 HD32776-06	891,929
PORTER, DAVID D.....	RESPIRATORY SYNCYTIAL VIRUS INFECTION IN THE FERRET.....	2N01 A152517-01	54,807
RANGEL, DECIO D.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	1N01 CM67097-00	104,543
RAY, DAN S.....	CONSTRUCT M13 PHAGE CLONING VECTOR FOR E. COLI HOSTS.....	1N01 A162505-00	32,807
SANSONE-BAZZANO, GAIL.....	STEROID HORMONES ON SEBACEOUS SECRETION & ACNE DEVEL.....	3N01 HD42864-02	127,270
SERCARZ, ELI E.....	GENETIC CONTROL OF IMMUNE RESPONSE TO CANCER.....	2N01 CB43972-01	89,786
SPARKS, FRANK C.....	THERAPY OF CARCINOMA OF THE BREAST.....	2N01 CB43917-02	243,000
STERMAN, MAURICE B.....	STUDY OF SUDDEN INFANT DEATH.....	2N01 HD42810-04	349,775
STRAATSMAN, BRADLEY R.....	DIABETIC RETINOPATHY STUDY—CLINICAL CENTER.....	5N01 EY42173-02	144,210
TERASAKI, PAUL I.....	STUDY TYPING AND MATCHING FOR PLATELET TRANSFUSIONS.....	2N01 CM02092-08	392,163
TERASAKI, PAUL I.....	CELLULAR IMMUNITY TO TUMOR ANTIGENS.....	2N01 CP43211-04	570,007
WEIMER, HENRY E.....	DEVELOPMENT OF IMMUNODIAGNOSTIC TESTS FOR CANCER.....	2N01 CB43860-02	157,828
WILCOX, GARY L.....	CONSTRUCT M13 PHAGE CLONING VECTOR FOR E. COLI HOSTS.....	1N01 A162507-00	30,747
ZIGHELBOIM, JACOB.....	SPECIFIC IMMUNOTHERAPY IN ACUTE MYELOGENOUS LEUKEMIA.....	1N01 CB64006-00	87,782
ORGANIZATION TOTAL	38	7,177,813	
<b>UNIVERSITY OF SOUTHERN CALIFORNIA ZIP CODE 90007</b>			
BOYLEN, C THOMAS.....	NOCTURNAL OXYGEN THERAPY IN HYPOXIC LUNG DISEASE.....	1N01 HR62947-00	16,290
CHAN, KENNETH K.....	DISPOSITION AND METABOLISM OF ANTINEOPLASTIC AGENTS.....	1N01 CM67065-00	120,978
FRIOU, GEORGE J.....	ANTIBODIES TO HUMAN TUMOR CELLS.....	2N01 CB43881-02	86,300
GARDNER, MURRAY B.....	ETIOLOGY AND EPIDEMIOLOGY OF HUMAN CANCER.....	2N01 CP53500-01	4,610,409
GUISS, LEWIS.....	EARLY DETECTION OF BREAST CANCER.....	2N01 CN45098-02	324,391
HAMMOND, G DENMAN.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CM55235-01	1,568
HAMMOND, G DENMAN.....	CHILDREN'S CANCER STUDY GROUP.....	1N01 CM65374-00	895,153
HARRIS, PHILLIP A.....	STUDY OF METABOLISM OF ANTINEOPLASTIC AGENTS.....	3N01 CM23241-10	38,652
HEIDELBERGER, CHARLES.....	SYNTHESIS OF DNA AND ENZYME BINDING COMPOUNDS.....	1N01 CM67084-00	155,069
HEIDELBERGER, CHARLES.....	CARCINOGENESIS IN VITRO: INITIATION AND PROMOTION.....	1N01 CP65831-00	64,571
LIEB, MARGARET.....	GENETIC CONSTITUTION OF BACTERIOPHAGE VECTORS.....	1N01 A162516-00	31,316
MARMORSTON, JESSIE.....	STUDY OF CORONARY HEART DISEASE.....	3N01 HV42931-04	425,403
MARMORSTON, JESSIE.....	ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52934-03	120,000
MASSRY, SHAUL G.....	OSREODYSTROPHY AND DIVALENT IONS IN KIDNEY FAILURE.....	3N01 AM52234-01	103,383
MOSLEY, JAMES W.....	PROSPECTIVE STUDY OF POST TRANSFUSION HEPATITIS.....	3N01 HB42972-03	1,953,491
RASHEED, SURAIYA.....	INFLUENCE OF INTERACTION BETWEEN ENVIRONMENTAL FACTORS.....	1N01 CP61041-00	90,055
SOBIN, SIDNEY S.....	FIBROPROTEIN NETWORKS OF THE PULMONARY ALVEOLAR WALL.....	1N01 HR62910-00	96,730
VOGT, PETER K.....	LETHAL MUTANTS OF RNA TUMOR VIRUSES.....	3N01 CP35158-02	208,000
WEHRLI, PAUL F.....	CLINICAL EVALUATION OF BACTERIAL POLYSACCHARIDE VACCINES.....	2N01 A122506-06	49,813
ORGANIZATION TOTAL	19	9,391,572	
<b>MENLO PARK</b>			
<b>STANFORD RESEARCH INSTITUTE ZIP CODE 94025</b>			
BRAUMAN, SHARON K.....	DEVELOPMENT OF MATERIALS FOR HEART-ASSIST DEVICES.....	5N01 HV32959-06	147,450
FREEMAN, GUSTAVE.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	5N01 CP55701-03	140,575
HENRY, DAVID W.....	SYNTHESIS OF POTENTIAL ANTICANCER AGENTS.....	5N01 CM33742-06	508,913
INSEL, PAUL.....	PSYCHOLOGICAL ASPECTS OF BREAST CANCER.....	2N01 CN55313-01	340,756
KREBS, JOHN S.....	CANCER INFORMATION DISSEMINATION.....	1N01 C065222-00	198,733
LEAFFER, MORRIS.....	PREPARE RADIOLABELED CHEMICALS AND DRUGS.....	3N01 CM12162-08	56,975
LEAFFER, MORRIS.....	PREPARATION OF RADIOLABELED MATERIALS.....	1N01 CM63776-00	234,696
LIM, PETER.....	ANALYSIS OF CHEMICALS AND PHARMACEUTICAL FORMULATIONS.....	5N01 CM33723-05	369,463

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
MC GEE, ARTHUR A.....	STUDY OF CHEMICALS THAT AFFECT MAN AND HIS ENVIRONMENT.....	5N01 CP33285-09	470,000
MITCHELL, ANN D.....	MUTAGENESIS SYSTEM FOR CARCINOGENESIS SCREENING.....	1N01 CP65854-00	194,042
PETERS, JOHN H.....	METABOLISM OF DAPSONE IN LEPROSY PATIENTS.....	3N01 A102283-06	18,707
PINCUS, JACK H.....	MODIFIED TUMOR CELL MEMBRANE AS IMMUNOTHERAPEUTIC AGENT.....	1N01 CB64053-00	62,710
REIST, ELMER J.....	PREPARATION OF CHEMICALS.....	3N01 CP55725-01	3,937
REIST, ELMER J.....	PREPARATION, PURIFICATION & ANALYSIS OF THREE COMPOUNDS.....	1N01 CP65756-00	13,315
REIST, ELMER J.....	PREPARATION OF 10 COMPOUNDS.....	1N01 CP65817-00	38,577
SIMMON, VINCENT F.....	STUDY OF POTENTIAL PREScreens FOR CHEMICAL CARCINOGENS.....	3N01 CP33394-08	2,052
SIMMON, VINCENT F.....	MUTAGENESIS SYSTEMS FOR CARCINOGENESIS SCREENING.....	1N01 CP65857-00	85,726
TANABE, MASATO.....	CHEMICAL CONTRACEPTIVES FOR THE MALE AND FEMALE.....	3N01 HD52844-02	116,642
TANABE, MASATO.....	SYNTHETIC STEROID CONTRACEPTIVE AGENTS.....	1N01 HD62853-00	129,531
WEAVER, CHARLES S.....	DEVELOPMENT OF WEARABLE RECORDING SYSTEM.....	2N01 NS32322-06	265,806
ORGANIZATION TOTAL	20	3,398,606	
<b>MOUNTAIN VIEW</b>			
LEE-MAC	ZIP CODE 94040		
MC COY, THOMAS.....	INCREASING YIELDS OF HUMAN INTERFERON PRODUCTION.....	3N01 A152521-01	46,768
ORGANIZATION TOTAL	1	46,768	
<b>OAKLAND</b>			
<b>KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE ZIP CODE 94612</b>			
FRIEDMAN, GARY D.....	DETERMINE RENAL DISEASE PREVALENCE AND RISK FACTORS.....	1N01 AM62201-00	85,964
FRIEDMAN, GARY D.....	EPIDEMIOLOGIC STUDY OF CANCER OF THE COLON.....	3N01 CP33215-04	62,427
GLASS, ANDREW G.....	STUDY CHANGE IN BREAST CANCER RISK AMONG ESTROGEN USERS.....	1N01 CP61057-00	56,731
RAMCHARAN, SAIIRI.....	CONTRACEPTIVE AGENTS ON BIRTH DEFECT FREQUENCY.....	5N01 HD42861-02	322,004
ORGANIZATION TOTAL	4	527,126	
<b>SAMUEL MERRITT HOSPITAL ZIP CODE 94608</b>			
SCHWEITZER, ROBERT.....	SCREENING FOR EARLY DETECTION OF CANCER OF THE BREAST.....	2N01 CN45068-05	294,011
SCHWEITZER, ROBERT.....	CASE CONTROL STUDY OF RESERPINE & BREAST CANCER.....	1N01 CP61018-00	518
ORGANIZATION TOTAL	2	294,529	
<b>OXNARD</b>			
<b>GOULD, INC.—STATHAM INSTRUMENTS DIVISION ZIP CODE 93030</b>			
CHAMBERS, JACK A.....	DEVELOPMENT OF AN ELECTRICAL-ENERGY CONVERTER.....	2N01 HV42906-04	650,874
ORGANIZATION TOTAL	1	650,874	
<b>PALO ALTO</b>			
<b>AMERICAN INSTITUTES FOR RESEARCH ZIP CODE 94306</b>			
MILLER, WARREN B.....	CHILDBEARING PATTERNS AND THE WELFARE OF MARRIED COUPLES.....	1N01 HD62813-00	22,826
MILLER, WARREN B.....	ATTITUDE AND PREDICTION OF CONTRACEPTIVE BEHAVIOR.....	1N01 HD62824-00	23,205
ORGANIZATION TOTAL	2	46,031	
<b>CHILDREN'S HOSPITAL AT STANFORD ZIP CODE 94304</b>			
DUTCHER, JOY N.....	ANOREXIA IN ADULT AND PEDIATRIC CANCER PATIENTS.....	1N01 CP65835-00	179,691
ORGANIZATION TOTAL	1	179,691	
<b>DYNAPOL ZIP CODE 94304</b>			
CROSBY, GUY.....	STUDY SENSORY PROPERTIES OF NEW DIHYDROCHALCONE ANALOGS.....	1N01 DE62479-00	230,758
ORGANIZATION TOTAL	1	230,758	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>				
<b>NORTHERN CALIFORNIA CANCER PROGRAM, INC.</b>		<b>ZIP CODE 94304</b>		
SILVERMAN, SOL.....		NETWORK DEMONSTRATION PROJECT IN HEAD AND NECK CANCER.....	2N01 CN55180-01	234,742
ORGANIZATION TOTAL	1			234,742
<b>PALO ALTO MEDICAL RESEARCH FOUNDATION</b>		<b>ZIP CODE 94301</b>		
DONCH, JOHN J.....		VERIFICATION OF GENETIC CONSTRUCTION OF E. COLI HOSTS.....	1N01 A162519-00	60,495
KRAHENBUHL, JAMES L.....		ROLE OF MACROPHAGES IN THE IMMUNE RESPONSE.....	2N01 CB43873-02	110,970
LEWIS, BERNARD I.....		CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52911-02	81,434
ORGANIZATION TOTAL	3			252,899
<b>PASADENA</b>				
<b>CALIFORNIA INSTITUTE OF TECHNOLOGY</b>		<b>ZIP CODE 91125</b>		
DAVIDSON, NORMAN R.....		EM STUDY OF TUMOR-VIRUS NUCLEIC ACIDS.....	2N01 CP43306-03	100,600
ORGANIZATION TOTAL	1			100,600
<b>HUNTINGTON MEMORIAL HOSPITAL</b>		<b>ZIP CODE 91105</b>		
PUDENZ, ROBERT H.....		STUDY OF FEASIBILITY OF A SENSORY PROSTHESIS.....	2N01 NS02275-06	123,000
ORGANIZATION TOTAL	1			123,000
<b>KONIGSBERG INSTRUMENTS</b>		<b>ZIP CODE 91107</b>		
KONIGSBERG, EPH.....		TEST DIFFERENTIAL PRESSURE TRANSDUCER.....	3N01 HV92241-12	22,340
ORGANIZATION TOTAL	1			22,340
<b>PASADENA FOUNDATION FOR MEDICAL RESEARCH</b>		<b>ZIP CODE 91101</b>		
KAIGHN, M EDWARD.....		NORMAL, HUMAN PROSTATIC EPITHELIAL CELL-PRIMARY CULTURE.....	1N01 CP65850-00	98,304
OPEL, WILLIAM.....		SELF-INSTRUCTIONAL UNITS IN CELL BIOLOGY.....	1N01 LM64724-00	115,192
ORGANIZATION TOTAL	2			213,496
<b>SACRAMENTO</b>				
<b>CALIFORNIA STATE HEALTH AND WELFARE AGENCY</b>		<b>ZIP CODE 95814</b>		
DUNN, JOHN E, JR.....		STUDY OF INCIDENCE OF CANCER.....	3N01 CP33353-07	832,510
FASAL, ELFRIEDE.....		CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN55263-01	271,727
ORGANIZATION TOTAL	2			1,104,237
<b>GENERAL TIRE AND RUBBER COMPANY—AEROJET LIQUID ROCKET COMPANY</b>		<b>ZIP CODE 95813</b>		
JAGOW, R H.....		PREPARATION FOR BULK CHEMICALS AND DRUGS.....	5N01 CM57031-01	280,068
RUDNICKI, M I.....		DEVELOPMENT OF STIRLING CYCLE ENERGY-CONVERSION.....	5N01 HV32930-06	1,528,671
ORGANIZATION TOTAL	2			1,808,739
<b>SAN DIEGO</b>				
<b>GENERAL ATOMIC COMPANY</b>		<b>ZIP CODE 92138</b>		
MEYER, CHARLES H, JR.....		DESIGN OF CARBON FILM DEPOSITS FOR PROSTHETIC DEVICES.....	5N01 HV42928-02	103,067
ORGANIZATION TOTAL	1			103,067
<b>INTEGRATED SOFTWARE SYSTEMS CORPORATION</b>		<b>ZIP CODE 92121</b>		
NOT APPLICABLE.....		INTERACTIVE GRAPHICS PACKAGE (DISSPLA)—NLM.....	1N01 LM64734-00	28,050
ORGANIZATION TOTAL	1			28,050
<b>WSA, INC.</b>		<b>ZIP CODE 92121</b>		
DOBSON, JACK.....		EQUIPMENT FOR GAMMA-RAY, X-RAY, LET RADIATION THERAPY.....	3N01 CB53887-02	8,280



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>			
ORGANIZATION TOTAL	1	8,280	
<b>SAN FRANCISCO</b>			
INSTITUTES OF MEDICAL SCIENCES	ZIP CODE 94120		
WIDDOWSON, GRAHAM	SUPPORT FOR CENTRAL LABORATORY	5N01 HV33101-05	524,099
ORGANIZATION TOTAL	1	524,099	
KAISER FOUNDATION HOSPITALS—KAISER FOUNDATION RESEARCH INSTITUTE	ZIP CODE 94115		
FREID, MARVIN A.	EPIDEMIOLOGICAL STUDY OF PNEUMOCOCCAL DISEASE	2N01 A122513-07	317,700
RAMCHARAN, SAI TRI	STUDY OF CONTRACEPTIVE DRUGS	5N01 HD32710-09	802,190
ORGANIZATION TOTAL	2	1,119,890	
R. K. DAVIES MEDICAL CENTER—FRANKLIN HOSPITAL	ZIP CODE 94114		
GOTCH, FRANK A.	EVALUATION OF HOLLOW-FIBER DIALYZERS	3N01 AM42202-05	121,000
ORGANIZATION TOTAL	1	121,000	
SAN FRANCISCO MEDICAL SOCIETY	ZIP CODE 94118		
PERKINS, HERBERT A.	REMOVAL OF HLA ANTIGENS FROM BLOOD	3N01 HB12408-06	3,628
ORGANIZATION TOTAL	1	3,628	
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO	ZIP CODE 94143		
ARIEFF, ALLEN I.	ABNORMALITIES OF NERVOUS SYSTEM FUNCTION IN UREMIA	2N01 AM52204-02	71,666
COMROE, JULIUS H, JR.	CONTRIBUTION OF BASIC SCIENCE TO MEDICAL ADVANCES	3N01 HO12327-05	5,301
ELASHOFF, ROBERT M.	DEVELOPMENT OF GROUP-TESTING FOR SCREENING CARCINOGENS	2N01 CP33327-04	94,704
FELTS, JAMES M.	INVESTIGATE HYPERLIPIDEMIA IN CHRONIC RENAL FAILURE	3N01 AM42220-01	74,190
GIRISH, VYAS W.	STUDY ON DETECTION OF HEPATITIS BY HEMAGGLUTINATION	2N01 HB33000-03	51,333
IRVINE, ALEXANDER R.	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY	1N01 EY62139-00	59,319
LAVAIL, MATTHEW M.	HEREDITARY DEGENERATIVE DISEASE OF THE RETINA-RAT MODEL	1N01 EY62147-00	55,482
LEVY, JAY A.	ISOLATION OF HUMAN XENOTROPIC VIRUSES	2N01 CP43381-02	122,836
MARTIN, DAVID W, JR.	PROPAGATION OF MUTANT SOMATIC CELLS	3N01 CP43239-03	116,942
MICHAELI, DOV	INTERACTIONS OF MODIFIED BIOPOLYMERS WITH BLOOD	2N01 HV42984-03	91,519
NEUBRUN, ERNEST	DENTAL PLAQUE OF FRUCTOSE-INTOLERANT PATIENTS	1N01 DE62498-00	76,483
PETRAKIS, NICHOLAS L.	APPLICATION OF BREAST PUMP TO OBTAIN BREAST SECRETIONS	2N01 CB33882-05	87,600
PHILLIPS, THEODORE L.	EARLY INTERVENTION IN REHABILITATION OF CANCER PATIENTS	5N01 CN55190-02	254,943
SALVATIERRA, OSCAR	EVALUATION OF ALG AS AN IMMUNOSUPPRESSIVE AGENT	2N01 A122540-06	44,044
SILVERSTEIN, STEVEN J.	COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECT	3N01 DE52470-03	19,016
TANAGHO, EMIL A.	STUDY OF URINARY BLADDER EVACUATION	2N01 NS32307-04	38,020
THOMAS, ARTHUR N.	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY	5N01 HR42915-02	139,198
TOOLEY, WILLIAM H.	MEASURE PULMONARY FUNCTION IN INFANTS AND CHILDREN	1N01 HR62903-00	122,970
WARA, WILLIAM M.	IMMUNO-STIMULANTS IN LOCALIZED RADIATION THERAPY	1N01 CB64004-00	84,139
WILSON, CHARLES B.	THERAPY OF PATIENTS WITH BRAIN TUMORS	1N01 CM67055-00	86,956
ZIPPIN, CALVIN	TUMOR REGISTRY TRAINING PROGRAM AND ALLIED ACTIVITIES	3N01 CP43383-03	165,301
ORGANIZATION TOTAL	21	1,861,962	
UNIVERSITY OF THE PACIFIC	ZIP CODE 94115		
GIBSON, HAROLD R.	MAINTAIN A VISUAL SCIENCE INFORMATION CENTER	1N01 EY62148-00	74,444
TUCKER, HARVEY J.	ACUTE RESPIRATORY INSUFFICIENCY EDUCATIONAL PROGRAMS	5N01 HR42964-04	284,000
ORGANIZATION TOTAL	2	358,444	
WEST COAST CANCER FOUNDATION	ZIP CODE 94115		
ENELOW, ALLEN J.	PSYCHOLOGICAL ASPECTS OF BREAST CANCER	5N01 CN55314-01	261,273
VACHT, JEROME M.	PROTOTYPE NETWORK DEMONSTRATION IN BREAST CANCER	2N01 CM45143-02	356,007
ORGANIZATION TOTAL	2	617,280	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
CALIFORNIA—Continued				
SAN JOSE				
SANTA CLARA VALLEY MEDICAL CENTER		ZIP CODE 95128		
KRAUT, JOSEPH W .....	CLINICAL ONCOLOGY PROGRAM .....	1N01 CN65293-00	71,374	
KRAUT, JOSEPH W .....	CLINICAL ONCOLOGY PROGRAM .....	1N01 CN65378-00	231,620	
ORGANIZATION TOTAL	2 302,994			
SAN LEANDRO				
PHYSICS INTERNATIONAL COMPANY		ZIP CODE 94577		
O'NEILL, C G .....	DEVELOP AND EVALUATE IMPLANTABLE PIEZOELECTRIC DRIVER .....	5N01 HV92253-15	509,038	
ORGANIZATION TOTAL	1 509,038			
SANTA MONICA				
RAND CORPORATION		ZIP CODE 90406		
CARTER, GRACE .....	NIH POLICIES FOR THE SUPPORT OF EXTRAMURAL RESEARCH .....	5N01 OD52127-02	242,999	
GRONER, GABRIEL F .....	PROTOTYPE CLINICAL RESEARCH DATA .....	5N01 RR52111-04	513,074	
ORGANIZATION TOTAL	2 756,073			
SIMI VALLEY				
PHARM-ECO LABORATORIES		ZIP CODE 93065		
DRAPER, MARSHALL D .....	PREPARATION OF BULK CHEMICALS AND DRUGS .....	5N01 CM23707-07	240,607	
ORGANIZATION TOTAL	1 240,607			
STANFORD				
STANFORD UNIVERSITY		ZIP CODE 94305		
ALDERMAN, E L .....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY .....	3N01 HV32974-06	33,054	
BERNFELD, MERTON R .....	STROMA IN NEOPLASTIC AND PRENEOPLASTIC MAMMARY GLAND .....	2N01 CB53903-01	89,000	
CUNHA, GERALD R .....	INTERACTIONS IN HORMONALLY-INDUCED CELLULAR ALTERATIONS .....	2N01 CP55649-01	93,883	
DONALDSON, SARAH S .....	OPTIMAL NUTRITIONAL SUPPORT TO CANCER THERAPY .....	1N01 CP65825-00	207,503	
FEIGEN, GEORGE A .....	IMMUNOPHARMACOLOGY STUDY OF FALLOPIAN TUBE .....	3N01 HD32775-03	32,572	
GLATSTEIN, ELI .....	CLASSIFICATION OF NON-HODGKIN'S LYMPHOMAS CTR FACILITY .....	1N01 CM67072-00	86,670	
GLATSTEIN, ELI .....	CLASSIFICATION OF NON-HODGKIN'S LYMPHOMAS .....	1N01 CM67111-00	79,350	
GRUMET, F CARL .....	AUTOMATED SYSTEM FOR HLA TYPING .....	2N01 CB53935-02	42,234	
HARRISON, DONALD C .....	NATURAL HISTORY OF PATIENTS WITH PREINFARCTION SYNDROME .....	2N01 HV12482-05	20,000	
HAYFLICK, LEONARD .....	STUDY OF HUMAN TUMOR CELL CULTURES .....	2N01 CP43244-06	45,536	
KAPLAN, HENRY S .....	IMMUNOTHERAPY WITH IN VITRO LYMPHOCYTE SENSITIZATION .....	1N01 CB63988-00	201,509	
KAPLAN, HENRY S .....	HODGKIN'S DISEASE AND OTHER HUMAN MALIGNANT LYMPHOMAS .....	2N01 CP43228-03	375,000	
LEHMAN, I ROBERT .....	LARGE SCALE PRODUCTION OF DNA LIGASE & DNA POLYMERASE I .....	1N01 CP61026-00	53,758	
LUCAS, ZOLTAN J .....	STUDY OF INHIBITORS OF CELLULAR IMMUNITY .....	2N01 CB33905-03	124,000	
MC DEVITT, HUGH O .....	SUPPLY OF MICE .....	2N01 CB43941-02	79,777	
MERIGAN, THOMAS C .....	EVALUATION OF THERAPEUTIC EFFICACY OF HUMAN INTERFERON .....	2N01 AI42527-04	148,211	
NELSON, THOMAS S .....	STUDY OF PHYSIOLOGY OF THE OVIDUCT .....	3N01 HD32774-06	195,422	
STOCKDALE, FRANK E .....	CONTROL OF DNA SYNTHESIS IN THE MAMMARY GLAND .....	2N01 CB23875-04	90,000	
WHITE, ROBERT L .....	TRANSDERMAL ELECTRONICS FOR AUDITORY PROSTHESIS .....	2N01 NS52306-01	191,150	
ORGANIZATION TOTAL	19 2,188,629			
SUNNYVALE				
RASOR ASSOCIATES		ZIP CODE 94086		
RASOR, N S .....	NONINVASIVE ASSESSMENT OF PULMONARY HYPERTENSION .....	1N01 HR62917-00	95,500	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>CALIFORNIA—Continued</b>				
ORGANIZATION TOTAL	1			95,500
<b>TORRANCE</b>				
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL			ZIP CODE 90509	
BROEN, ELMER M.....		INVESTIGATION OF POSTCOITAL CONTRACEPTIVE AGENTS.....	1N01 HD62839-00	51,758
BYFIELD, PATRICIA E.....		SUB-POPULATION SPECIFIC ANTISERA.....	1N01 CB63989-00	15,792
DAVIDSON, WARREN D.....		ROLE OF ACETATE IN DIALYSATE FOR HEMODIALYSIS.....	3N01 AM52209-01	2,590
ODELL, WILLIAM D.....		STUDY OF HORMONE MARKERS FOR DETECTING CANCER.....	5N01 CB43903-02	199,752
PARLOW, ALBERT.....		COLLECTION OF RAT PITUITARIES AND ASSAYING HORMONES.....	3N01 AM90056-20	94,117
SWERDLOFF, RONALD S.....		EVALUATE TESTOSTERONE ENANTHATE-INDUCED AZOOSPERMIA.....	1N01 HD62817-00	94,551
ORGANIZATION TOTAL	6			458,560
<b>VAN NUYS</b>				
BIO-SCIENCE LABORATORIES			ZIP CODE 91405	
GLUECK, CHARLES J.....		STUDY OF BLOOD TOXICITY.....	2N01 HV32961-03	282,300
ORGANIZATION TOTAL	1			282,300
<b>WOODLAND HILLS</b>				
OPERATING SYSTEMS			ZIP CODE 91364	
NOT APPLICABLE.....		DEVELOP PHOCOS SUBSYSTEM OF MEDLARS II.....	3N01 LM54749-02	13,763
ORGANIZATION TOTAL	1			13,763
STATE TOTAL	249			56,514,774
<b>COLORADO</b>				
<b>BOULDER</b>				
UNIVERSITY OF COLORADO			ZIP CODE 80302	
WATT, DAVID S.....		SYNTHESIS OF CONTRACEPTIVE AGENTS.....	1N01 HD62855-00	40,506
ORGANIZATION TOTAL	1			40,506
<b>DENVER</b>				
CHILDREN'S HOSPITAL			ZIP CODE 80218	
HOLTON, CHARLENE P.....		CLINICAL CHEMOTHERAPY PROGRAM.....	5N01 CN35019-06	25,000
ORGANIZATION TOTAL	1			25,000
COLORADO REGIONAL CANCER CENTER			ZIP CODE 80206	
HOWARD, DOROTHY E.....		ONCOLOGY NURSING PROGRAMS IN COMMUNITY HOSPITALS.....	1N01 CN65185-00	187,100
SEMPLE, MARTIN.....		COMPREHENSIVE CANCER CENTERS COMMUNICATIONS NETWORK.....	3N01 CN55236-01	1,568
ORGANIZATION TOTAL	2			188,668
COLORADO STATE DEPARTMENT OF HEALTH			ZIP CODE 80220	
REGER, ROY H.....		COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECT.....	5N01 DE52472-01	18,494
ORGANIZATION TOTAL	1			18,494
NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER			ZIP CODE 80206	
GOREN, MAYER B.....		PROCURE SULFOLIPIDS FROM MYCOBACTERIUM TUBERCULOSIS.....	1N01 CP65746-00	48,047

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>COLORADO—Continued</b>			
GREY, HOWARD M.....	PREPARATION OF REAGENT ANTISERA AND ANTIGENS.....	2N01 CB53912-01	72,595
SCHAEFER, WERNER B.....	SEROLOGY OF ATYPICAL MYCOBACTERIA.....	3N01 A102079-06	51,678
ORGANIZATION TOTAL	3	172,320	
<b>UNIVERSITY OF COLORADO MEDICAL CENTER ZIP CODE 80220</b>			
ALFREY, ALLEN C.....	TRACE ELEMENT ABNORMALITIES IN CHRONIC UREMIA.....	3N01 AM42217-03	10,000
BOREK, ERNEST.....	DEVELOPMENT OF INHIBITORS TO RNA METHYLATION.....	2N01 CM12186-07	115,577
COOPER, WILLIAM G.....	DEVELOP AND SUPPORT A CTS FACILITY.....	1N01 LM64744-00	38,043
HAHN, WILLIAM E.....	EFFECT OF PROGESTERONE ON EARLY EMBRYONIC DEVELOPMENT.....	3N01 HD02259-08	1,800
HATHAWAY, WILLIAM E.....	FACTOR VIII INHIBITORS IN HEMOPHILIA.....	3N01 HB53023-02	2,044
HENDEE, WILLIAM R.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	2N01 CN45160-04	147,461
MC INTOSH, KENNETH.....	CLINICAL EVALUATION OF RESPIRATORY VACCINES.....	2N01 A122501-05	94,066
NORA, JAMES J.....	EVALUATION OF EFFECT OF CONTRACEPTIVE AGENTS.....	5N01 HD42845-02	86,153
PETTY, THOMAS L.....	NOCTURNAL OXYGEN THERAPY IN CHRONIC HYPOXIC LUNG DISEASE.....	1N01 HR62942-00	15,590
REEVES, JOHN T.....	NONINVASIVE ASSESSMENT OF PULMONARY HYPERTENSION.....	1N01 HR62920-00	114,105
SINGLETON, JOHN W.....	NATIONAL COOPERATIVE STUDY OF CROHN'S DISEASE.....	3N01 AM22210-05	435,787
STEWART, JOHN M.....	PEPTIDE ANTAGONISTS OF LH-RH AS OVULATION INHIBITORS.....	1N01 HD62843-00	59,348
STEWART, JOHN M.....	SPECIFIC IMMUNIZATION AS A MALE CONTRACEPTIVE.....	1N01 HD62851-00	40,671
TALMAGE, DAVID W.....	ISOLATION OF HUMAN PERIPHERAL BLOOD MONOCYTES.....	2N01 CB53900-01	45,653
WEBBER, MUKTA M.....	IN VITRO CULTIVATION OF HUMAN PROSTATIC CELLS.....	1N01 CP65849-00	119,639
ORGANIZATION TOTAL	15	1,325,937	
<b>FORT COLLINS</b>			
<b>COLORADO STATE UNIVERSITY ZIP CODE 80521</b>			
LUMB, WILLIAM V.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	2N01 H142903-03	238,700
MC LEOD, FRANCIS D.....	ULTRASONIC DETECTION OF PERIPHERAL ATHEROSCLEROSIS.....	5N01 HV52965-01	129,184
NISWENDER, GORDON D.....	STUDY OF ENDOCRINE REGULATION OF THE CORPUS LUTEUM.....	3N01 HD92134-15	40,242
ORGANIZATION TOTAL	3	408,126	
STATE TOTAL	26	2,179,051	
<b>CONNECTICUT</b>			
<b>FARMINGTON</b>			
<b>UNIVERSITY OF CONNECTICUT HEALTH CENTER ZIP CODE 06032</b>			
BAILIT, HOWARD L.....	COMMUNITY CARIES PREVENTION DEMONSTRATION PROJECT.....	5N01 DE52459-01	16,718
BIGAZZI, PIERLUIGI E.....	IMMUNOLOGIC STUDIES OF VASECTOMY.....	2N01 HD52842-01	157,208
DOHERTY, NEVILLE.....	COST EFFECTIVENESS OF VARIOUS CARIES PREVENTIVE AGENTS.....	5N01 DE52449-02	104,653
FREER, RICHARD J.....	CHEMOATTRACTANTS FOR LEUCOCYTES IN PERIODONTAL DISEASE.....	3N01 DE52477-02	27,500
GOLD, RONALD.....	CLINICAL EVALUATION OF BACTERIAL POLYSACCHARIDE VACCINES.....	2N01 A122502-05	45,701
MUNDY, G R.....	OSTEOTROPISM OF MAMMARY CARCINOMA METASTASIS.....	1N01 CB63980-00	127,000
TANZER, JASON M.....	PREVENTION OF HUMAN PERIODONTAL PLAQUE.....	5N01 DE42437-02	65,261
VIOLA, MICHAEL V.....	ETIOLOGY OF ALS AND PD IN RNA 'C' TYPE VIRUSES.....	2N01 NS52307-01	101,430
ORGANIZATION TOTAL	8	645,471	
<b>HARTFORD</b>			
<b>CONNECTICUT STATE DEPARTMENT OF HEALTH ZIP CODE 06115</b>			
CHRISTINE, BARBARA W.....	EXPAND CONNECTICUT'S CERVICAL CANCER SCREENING PROGRAM.....	3N01 CN45074-03	229,634
HONEYMAN, MERTON S.....	CANCER END RESULTS EVALUATION.....	9N01 CP61002-03	923,558
ORGANIZATION TOTAL	2	1,153,192	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CONNECTICUT—Continued</b>			
<b>NEW HAVEN</b>			
<b>HASKINS LABORATORIES ZIP CODE 06510</b>			
LIBERMAN, ALVIN M.....	STUDY OF LANGUAGE DEVELOPMENT IN CHILDREN.....	3N01 HD12420-04	78,114
ORGANIZATION TOTAL	1 78,114		
<b>HOSPICE, INC. ZIP CODE 06511</b>			
LACK, SYLVIA.....	DEVELOPMENT AND UTILIZATION OF REHABILITATION RESOURCES.....	2N01 CN55053-03	397,964
ORGANIZATION TOTAL	1 397,964		
<b>PLANNED PARENTHOOD LEAGUE OF CONNECTICUT ZIP CODE 06511</b>			
PRUETT, KENNETH.....	CLINICAL STUDY OF POSTCOITAL CONTRACEPTIVE AGENTS.....	3N01 HD42809-02	83,306
ORGANIZATION TOTAL	1 83,306		
<b>YALE UNIVERSITY ZIP CODE 06520</b>			
BERTINO, JOSEPH R.....	SELECTION AND DESIGN OF PROMISING ANTICANCER AGENTS.....	2N01 CM33711-03	21,000
BERTINO, JOSEPH R.....	SELECTION & DEVELOPMENT OF PROMISING FOLATE ANTAGONISTS.....	1N01 CM67068-00	45,396
BOUHUYS, AREND.....	STUDY OF PREVALENCE OF CHRONIC RESPIRATORY DISEASE.....	2N01 HR42912-02	168,000
CANELLAKIS, EVANGELO S.....	BIOCHEMICAL SCREENING FOR ANTICANCER AGENTS.....	5N01 CM57029-01	90,421
COHEN, LAWRENCE S.....	COLLABORATIVE STUDIES IN CORONARY ARTERY SURGERY.....	1N01 HV62925-00	95,527
DIERS, DONNA.....	ONCOLOGY NURSING PROGRAMS IN MEDICAL CENTERS.....	5N01 CN45138-01	193,840
FELIG, PHILIP.....	GLUCAGON AND AMINO ACIDS IN CARBOHYDRATE METABOLISM.....	2N01 AM42221-02	105,287
GERSHON, RICHARD K.....	STUDY OF THERAPY WITH NEURAMINIDASE-TREATED TUMOR CELLS.....	2N01 CB43865-02	55,000
GERSHON, RICHARD K.....	STUDY OF HUMORAL OR CELLULAR IMMUNOLOGIC RESPONSES.....	2N01 CB43994-02	72,400
MANDEL, HENRY R.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CN55232-03	101,726
MARCHESI, VINCENT T.....	BIOCHEMISTRY AND DIAGNOSTIC USE OF HUMAN TUMOR ANTIGENS.....	2N01 CB43859-03	39,960
MEIGS, J WISTER.....	SUPPORT FOR CANCER EPIDEMIOLOGY PROGRAM.....	2N01 CP33235-05	543,903
PEARSON, HOWARD A.....	STUDY OF SICKLE CELLS.....	2N01 HB22950-06	73,026
PITLICK, FRANCES A.....	INTERACTION OF NATURAL & MODIFIED BIOPOLYMERS WITH BLOOD.....	2N01 HV42968-03	61,508
RICHARDS, FRANK F.....	ANTIGEN BINDING ACTIVITY OF TRANSPLANTABLE T-CELL TUMORS.....	1N01 CB63993-00	110,568
RUDDLE, FRANCIS H.....	PROPAGATION OF HAPLOID AND PARTIAL MONOSOMIC CELL LINES.....	5N01 CP55673-01	114,625
SARTORELLI, ALAN C.....	AGENTS AFFECTING PLASMA MEMBRANES.....	5N01 CM53824-01	81,039
SPIRO, HOWARD M.....	THERAPY OF PATIENTS WITH GASTRIC CARCINOMA.....	3N01 CM53843-03	106,603
WAKSMAN, BYRON H.....	THYMIC & OTHER AGENTS PROM. LYMPHOCYTE DIFFERENTIATION.....	2N01 CB43926-01	65,118
WHITE, COLIN.....	EPIDEMIOLOGICAL STUDY OF ANTIFERTILITY METHODS.....	5N01 HD52800-01	245,856
ORGANIZATION TOTAL	20 2,390,803		
<b>STAMFORD</b>			
<b>COOPER AND COMPANY ZIP CODE 06905</b>			
SAMERS, BERNARD N.....	SURVEY OF FOUNDATIONS INVOLVED IN U. S. HEALTH R&D.....	1N01 OD62156-00	59,895
ORGANIZATION TOTAL	1 59,895		
<b>STORRS</b>			
<b>UNIVERSITY OF CONNECTICUT ZIP CODE 06268</b>			
FOX, MARTIN D.....	DEVELOP ULTRASOUND CONCEPT TO DETECT ATHEROSCLEROSIS.....	5N01 HV52963-02	62,432
ORGANIZATION TOTAL	1 62,432		
<b>WATERBURY</b>			
<b>WATERBURY HOSPITAL ZIP CODE 06720</b>			
WRIGHT, CHARLOTTE C.....	ONCOLOGY NURSING PROGRAMS IN COMMUNITY HOSPITAL.....	2N01 CN45135-02	301,747
ORGANIZATION TOTAL	1 301,747		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>CONNECTICUT—Continued</b>				
<b>WOODBIDGE</b>				
<b>BIO-SANT CORPORATION</b>		<b>ZIP CODE 06525</b>		
JEWETT, WARREN R.....	NEW METHODS FOR PLASMA FRACTIONATION .....	2N01 HB32969-10	186,785	
ORGANIZATION TOTAL	1	186,785		
STATE TOTAL	37	5,359,709		
<b>DELAWARE</b>				
<b>WILMINGTON</b>				
<b>WILMINGTON MEDICAL CENTER</b>		<b>ZIP CODE 19801</b>		
WHITNEY, LESLIE W.....	SCREENING FOR DETECTION OF BREAST CANCER .....	2N01 CN45047-02	265,415	
WHITNEY, LESLIE W.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER .....	2N01 CN45151-02	320,604	
ORGANIZATION TOTAL	2	586,019		
STATE TOTAL	2	586,019		
<b>DIST OF COL</b>				
<b>WASHINGTON</b>				
<b>AMERICAN INSTITUTES FOR RESEARCH</b>		<b>ZIP CODE 20007</b>		
BONVENTRE-CANNON, KRISTINA.....	LITERATURE STUDY OF DIET IN PRIMITIVE POPULATIONS .....	1N01 CP65781-00	47,925	
CARD, JOSEFINA J.....	CONSEQUENCES OF ADOLESCENT CHILDBEARING .....	1N01 HD62831-00	56,532	
RUDOV, MELVIN H.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	5N01 CN55070-03	143,066	
SHANNER, WILLIAM.....	CONTINUING EDUCATION IN PULMONARY MEDICINE .....	1N01 HR62932-00	169,465	
WRAY, JOE.....	EVALUATE HEALTH PARAMETERS IN RELATION TO DIET.....	1N01 CP65793-00	48,588	
ORGANIZATION TOTAL	5	465,576		
<b>AMERICAN NATIONAL RED CROSS</b>		<b>ZIP CODE 20006</b>		
FRIEDMAN, LEONARD I.....	CONTINUOUS FLOW PLASMAPHERESIS SYSTEM .....	1N01 HB62928-00	208,190	
NATH, NRAPENDRA.....	ESTABLISHMENT OF HEPATITIS TESTING LABORATORY.....	2N01 AI22522-04	282,524	
ORGANIZATION TOTAL	2	490,714		
<b>ASSOCIATION OF AMERICAN MEDICAL COLLEGES</b>		<b>ZIP CODE 20036</b>		
MORGAN, THOMAS E.....	FACTORS IN DEVELOPMENT OF MEDICAL FACULTY MEMBERS.....	1N01 OD62149-00	63,814	
SUTER, EMANUEL.....	DEVELOP A RESOURCE FOR EDUCATING HEALTH PROFESSIONALS.....	1N01 LM64711-00	390,000	
ORGANIZATION TOTAL	2	453,814		
<b>BOOZ, ALLEN AND HAMILTON</b>		<b>ZIP CODE 20036</b>		
LUHRS, CARO E.....	BLOOD CONSTITUENT USAGE AND SOURCE MATERIAL PROVISION .....	1N01 HB62965-00	152,067	
ORGANIZATION TOTAL	1	152,067		
<b>CHILDREN'S HOSPITAL NATIONAL MEDICAL CENTER</b>		<b>ZIP CODE 20009</b>		
PARROTT, ROBERT H.....	STUDY OF RESPIRATORY DISEASE .....	2N01 AI12091-09	261,099	
ORGANIZATION TOTAL	1	261,099		
<b>COURTESY ASSOCIATES</b>		<b>ZIP CODE 20006</b>		
NOT APPLICABLE.....	ANNUAL VIRAL ONCOLOGY MEETING.....	1N01 CP61004-00	32,670	
NOT APPLICABLE.....	ADMINISTRATION & CONFERENCE SUPPORT SERVICE.....	1N01 CP65729-00	1,989	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>DIST OF COL—Continued</b>			
NOT APPLICABLE	BASIC ORDERING AGREEMENT	1N01 CP65767-00	5,495
NOT APPLICABLE	WORKSHOP ON PROMOTIONAL CARCINOGENESIS	1N01 CP65773-00	2,135
NOT APPLICABLE	COURSE PREVIEW WORKSHOP	1N01 CP65774-00	3,295
NOT APPLICABLE	PROGRAM REVIEW MEETING	1N01 CP65782-00	12,330
NOT APPLICABLE	COURSE PREVIEW WORKSHOP	1N01 CP65806-00	3,964
NOT APPLICABLE	RETINOID PLANNING WORKSHOP	1N01 CP65823-00	4,072
NOT APPLICABLE	PROGRAM REVIEW MEETING	1N01 CP65851-00	1,500
NOT APPLICABLE	11TH JOINT WORKING CONFERENCE OF VIRUS CANCER PROGRAM	1N01 CP65852-00	3,000
NOT APPLICABLE	PROGRAM REVIEW MEETING	1N01 CP65860-00	1,000
STAMPFLI, SHEILA	CONFERENCE ON THE GENETICS OF HUMAN CANCER	3N01 CP35338-01	54,802
STAMPFLI, SHEILA	TRANSPLACENTAL CARCINOGENESIS AND PEDIATRIC NEOPLASMS	1N01 CP65725-00	34,810
STAMPFLI, SHEILA	PROGRAM REVIEW MEETING	1N01 CP65750-00	1,544
WALLER, TRIMMIE	CONFERENCES ON THE CARCINOGENICITY OF CYCLAMATE	3N01 CP35359-01	24,310
ORGANIZATION TOTAL	15	186,916	
<b>GEORGE WASHINGTON UNIVERSITY ZIP CODE 20006</b>			
ALFORD, T CRANDALL	IMMUNE RESPONSES TO SOLUBLE MEMBRANE ANTIGENS	2N01 CP23251-06	64,500
ARMALY, MANSOUR F.	BIOSTATISTICAL ANALYSIS OF COLLABORATIVE GLAUCOMA STUDY	2N01 EY42167-02	97,527
DAVIS, DAVID O.	CLINICAL EVAL OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY	5N01 CB43981-03	94,371
HOLLINSHEAD, ARIEL C.	PURIFICATION OF ANTIGENS; PREPARATION OF ANTIBODIES	1N01 CB64022-00	161,094
HOLLINSHEAD, ARIEL C.	STUDY ON MALIGNANT AND NONMALIGNANT CELLS	3N01 CB92176-12	23,668
JENSEN, WALLACE N.	STUDIES IN SICKLE CELL DISEASE	3N01 HB22946-05	2,600
KRUEGER, DEAN	MYOCARDIAL INFARCTION & THE ROLE OF ORAL CONTRACEPTIVES	1N01 HD62808-00	77,400
MATHESON, NINA	ESTABLISHMENT OF REGION IV JOURNAL CLEARINGHOUSE	1N01 LM64719-00	23,146
RIOS, JORGE	ECG CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY	2N01 HV52941-01	81,000
STRAW, JAMES A.	SOLID TUMOR PHARMACOLOGY IN LABORATORY ANIMALS	2N01 CM12206-07	33,268
TIDBALL, CHARLES S.	EVALUATION OF CARDIOVASCULAR-RENAL COMPUTER SIMULATIONS	1N01 CT62107-00	13,980
WAXMAN, BENNY	RISK OF SERIOUS COMPLICATIONS IN IUD WEARERS	1N01 HD62806-00	95,700
ORGANIZATION TOTAL	12	768,254	
<b>GEORGETOWN UNIVERSITY ZIP CODE 20007</b>			
ABERNATHY, MARGARET R.	EARLY DETECTION OF CANCER OF THE BREAST	2N01 CN45062-03	265,109
ABERNATHY, MARGARET R.	MMAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER	1N01 CN65251-00	149,750
CHAMBERS, ROBERT W.	VIRAL STUDIES IN SUPPORT OF CANCER CHEMOTHERAPY PATIENTS	2N01 CM12123-09	181,360
DELGADO, GREGORIO	VAGINAL CERVICAL CELL SAMPLES FOR CYTOLOGY AUTOMATION	1N01 CB64030-00	42,000
FINNERTY, FRANK A.	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION	2N01 HV12438-08	629,765
HENKIN, ROBERT I.	ANOREXIA IN ADULT AND PEDIATRIC CANCER PATIENT	1N01 CP65836-00	199,586
KATZ, EDWARD	PREPARATION OF ACTINOMYCIN ANALOGS	5N01 CM43732-04	63,543
MUSHKIN, SELMA J.	TRENDS IN COST OF DISEASE RELATED TO BIOMEDICAL RESEARCH	2N01 OD52121-02	245,991
RIDLEY, JEANNE C.	STUDY OF LOW-FERTILITY COHORTS	3N01 HD32799-05	4,562
RIDLEY, JEANNE C.	A STUDY OF LOW FERTILITY COHORTS IN THE UNITED STATES	9N01 HD62818-00	335,591
RUBIN, MARTIN	SYSTEM FOR LABORATORY SAMPLES	3N01 GM22107-07	55,465
RUBIN, MARTIN	DEVELOP LABORATORY SAMPLE IDENTIFICATION SYSTEM	1N01 GM62131-00	182,739
SCHEIN, PHILIP S.	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA	1N01 CM67094-00	87,322
SCHEIN, PHILIP S.	GASTROINTESTINAL CANCER RESEARCH PROGRAM	1N01 CM67110-00	199,501
SHNIDER, BRUCE I.	SUPPORT SERVICES FOR EASTERN COOPERATIVE ONCOLOGY GROUP	3N01 CM33745-07	499,860
SREEVALSAN, THAZEPADATH	EFFECTS ON CULTURED CELLS BY LIPOPHILIC COMPOUNDS	2N01 NS52319-01	70,000
SVERHA, SUSAN	ONCOLOGY NURSING PROGRAMS IN MEDICAL CENTERS	5N01 CN55240-01	119,368
ORGANIZATION TOTAL	17	3,331,512	
<b>HERNER &amp; COMPANY ZIP CODE 20037</b>			
HERNER, MARY	INDEXING JOURNAL ARTICLES IN THE BIOMEDICAL SCIENCES	1N01 LM64707-00	88,350
ORGANIZATION TOTAL	1	88,350	
<b>HOWARD UNIVERSITY ZIP CODE 20001</b>			
AHLUWALLA, BALWANT S.	CASE STUDY OF HYPERTENSIVE ORAL CONTRACEPTIVE USERS	1N01 HD62861-00	27,400
FUNDERBURK, WILLIAM W.	STUDY OF DIAGNOSIS OF CANCER OF THE BREAST	2N01 CP43287-02	19,284
HASTINGS, ALICIA E.	DEMONSTRATION OF CANCER REHABILITATION FACILITY	2N01 CN55300-01	414,106

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>DIST OF COL—Continued</b>			
KAPADIA, GOVIND J.....	POTENTIAL CARCINOGENS FROM PLANTS.....	2N01 CP33266-07	142,510
WHITE, JACK E.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CM55230-02	88,652
WOOD, DON H.....	PROGNOSIS AFTER STROKE.....	3N01 NS42329-03	20,000
ORGANIZATION TOTAL	6 711,952		
<b>LEONARD WOOD MEMORIAL ZIP CODE 20037</b>			
REICH, CLAUDE V.....	EVALUATE CHEMOTHERAPEUTIC AGENTS IN LEPROSY.....	2N01 A152509-04	148,650
ORGANIZATION TOTAL	1 148,650		
<b>NATIONAL ACADEMY OF SCIENCES ZIP CODE 20418</b>			
ALLEN, LEROY R.....	EPIDEMIOLOGIC RESEARCH ON CANCER.....	9N01 CP61003-00	166,270
DUNHAM, CHARLES L.....	SUPPORT ACTIVITIES OF THE DRUG RESEARCH BOARD.....	3N01 GM40044-2605	33,000
GARDNER, PHYLLIS A.....	SUPPORT COMMITTEE ON COUNCIL OF SOCIETIES OF PATHOLOGY.....	1N01 C065280-00	11,600
GROGAN, EARL.....	HISTOLOGICAL CLASSIFICATION OF LABORATORY ANIMAL TUMORS.....	1N01 CP65805-00	40,000
HRUBEC, ZDENEK.....	NAS-NRC TWIN REGISTRY.....	2N01 HV53010-01	65,170
JABLON, SEYMOUR.....	EPIDEMIOLOGICAL STUDIES.....	3N01 CP53573-01	70,500
JABLON, SEYMOUR.....	VIETNAM REGISTRY OF HEAD AND SPINAL CORD INJURIES.....	1N01 NS62346-00	53,235
JABLON, SEYMOUR.....	CONTINUATION OF THE MEDICAL FOLLOW-UP AGENCY STUDIES.....	2N01 OD52138-01	134,970
JOHNSON, PAUL E.....	EVALUATION OF HUMAN NUTRIENT REQUIREMENTS.....	2N01 AM42209-04	30,676
KELLY, WILLIAM C.....	NEED FOR BIOMEDICAL AND BEHAVIORAL RESEARCH PERSONNEL.....	2N01 OD52109-05	1,565,887
MARTIN, MARGARET.....	PANEL TO REVIEW STATISTICS ON SKIN CANCER.....	1N01 ES62128-00	26,400
NOT APPLICABLE.....	REVIEW AND EVALUATION REPORTS OF ANIMAL DATA BANK.....	1N01 LM64720-00	26,748
PARKER, HENRY S.....	ADVISORY SERVICE TO NLM TOXICOLOGY INFORMATION PROGRAM.....	1N01 LM64714-00	34,600
PETRIE, WILLIAM.....	GEOCHEMICAL ENVIRONMENT ON HEALTH-WORKSHOP.....	2N01 CP45616-02	30,000
ROSS, PHILIP.....	NUTRIENTS FOR LABORATORY RODENTS AND NONHUMAN PRIMATES.....	1N01 RR62126-00	65,000
SIMOPOULOS, ARTEMIS P.....	RESEARCH IN MATERNAL AND CHILD HEALTH.....	3N01 HD52818-02	20,000
SIMOPOULOS, ARTEMIS P.....	EVALUATION OF TESTING FOR CYSTIC FIBROSIS.....	2N01 HR52904-04	29,400
SPENDLE, WILLIAM.....	IMPROVE NOMENCLATURE SPECS FOR BIOCHEMICAL COMPOUNDS.....	2N01 GM52153-02	19,800
TRUMBULL, CHARLES.....	US-USSR SYMPOSIA ON MEMBRANE BIOLOGY OF PROTEINS.....	1N01 CB64066-00	92,000
YAGER, ROBERT H.....	SUPPORT OF INSTITUTE OF LABORATORY ANIMAL RESOURCES.....	5N01 CM53850-02	20,000
YAGER, ROBERT H.....	CONFERENCES ON LABORATORY ANIMAL RESOURCES.....	5N01 CM57013-04	23,000
YAGER, ROBERT H.....	SUPPORT WORK OF INSTITUTE OF LABORATORY ANIMAL RESOURCES.....	5N01 RR52128-01	92,500
YAGER, ROBERT H.....	SYMPOSIUM ON LABORATORY ANIMAL HOUSING.....	1N01 RR62103-00	20,000
ORGANIZATION TOTAL	23 2,670,756		
<b>PAN AMERICAN HEALTH ORGANIZATION ZIP CODE 20037</b>			
GILLESPIE, GEORGE W.....	INVESTIGATE PLAQUE IN MEDELLIN, COLOMBIA, SOUTH AMERICA.....	1N01 DE62457-00	61,200
KLEIN, ROBERT E.....	A STUDY OF NUTRITION AND DEVELOPMENT.....	2N01 HD50640-21	630,708
LITVAK, JORGE.....	LATIN AMERICAN CANCER RESEARCH INFORMATION PROJECT.....	1N01 C065332-00	139,596
MELENDEZ, L V.....	ESTABLISH A NONHUMAN PRIMATE PROGRAM.....	5N01 RS52151-01	163,014
URRUTIA, JUAN J.....	INTERACTION BETWEEN MALNUTRITION AND INFECTION STUDIES.....	2N01 HD42859-01	101,000
ORGANIZATION TOTAL	5 1,095,518		
<b>ROY LITTLEJOHN ASSOCIATES ZIP CODE 20005</b>			
SWANN, HAZEL.....	SICKLE CELL EDUCATION PROGRAM.....	2N01 HB53033-02	284,622
ORGANIZATION TOTAL	1 284,622		
<b>TELE SEC ZIP CODE 20006</b>			
BOSMA, PATRICIA.....	BINDING PREPARATION AND STACK MAINTENANCE-NLM.....	1N01 LM64735-00	133,130
NOT APPLICABLE.....	CODING BACKLOG OF CATALOGUE MATERIAL.....	1N01 LM64713-00	33,248
TARVER, HELGA.....	PROOFREADING AND UPDATING MEDLARS II NAME AUTHORITY FILE.....	3N01 LM54744-01	6,068
TARVER, HELGA.....	MAINTENANCE OF NLM'S NAME-TITLE CARD CATALOG.....	1N01 LM64716-00	26,830
TARVER, HELGA.....	CATALOGING OF SERIALS.....	1N01 LM64749-00	38,529
TARVER, HELGA.....	POST INVENTORY FILE MAINTENANCE.....	1N01 LM64752-00	35,304
TARVER, HELGA.....	CODING DATA FOR APPROXIMATELY 2500 SERIAL CONGRESSES.....	1N01 LM64754-00	25,130
ORGANIZATION TOTAL	7 298,239		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>DIST OF COL—Continued</b>			
<b>U.S. SMALL BUSINESS ADMINISTRATION ZIP CODE 20416</b>			
BUFFINGTON, THOMAS.....	SERVICES FOR THE OFFICE OF CANCER COMMUNICATIONS .....	3N01 C055316-01	232,714
TING, ROBERT C.....	SUPPORTIVE SERVICES IN VIROLOGY AND TISSUE CULTURE.....	5N01 CM43719-03	162,923
TO BE APPOINTED .....	ASSEMBLY AND DISSEMINATION OF MATERIALS FOR GRANT REVIEW.....	1N01 H062909-00	39,900
ORGANIZATION TOTAL	3 435,537		
<b>U.S. SMALL BUSINESS ADMINISTRATION WASHINGTON DISTRICT OFFICE ZIP CODE 20417</b>			
BRIGHT, CORNELIA M.....	IMMUNOLOGY DATA PROCESSING SUPPORT .....	1N01 CB64077-00	49,488
ORGANIZATION TOTAL	1 49,488		
<b>U.S. SMITHSONIAN INSTITUTION ZIP CODE 20560</b>			
HOPE, W DUANE.....	REGISTRY OF TUMORS IN LOWER ANIMALS.....	2N01 CB33874-03	119,500
ORGANIZATION TOTAL	1 119,500		
<b>U.S. SMITHSONIAN INSTITUTION-SMITHSONIAN SCIENCE INFORMATION EXCHANGE ZIP CODE 20036</b>			
FOSTER, WILLIS R.....	NCP ANALYSIS OF 1975 GRANTS AND CONTRACTS.....	3N01 C055196-01	77,001
NOT APPLICABLE.....	DEVELOP INFORMATION SYSTEM ON TOXICOLOGY PROGRAMS .....	1N01 LM64739-00	76,924
ORGANIZATION TOTAL	2 153,925		
<b>URBAN INSTITUTE ZIP CODE 20037</b>			
SAWHILL, ISABEL V.....	ANALYZE SELECTED PARENTAL OUTCOMES.....	1N01 HD62829-00	116,536
ORGANIZATION TOTAL	1 116,536		
STATE TOTAL	107 12,283,025		
<b>FLORIDA</b>			
<b>FORT LAUDERDALE</b>			
<b>LEO GOODWIN INSTITUTE FOR CANCER RESEARCH ZIP CODE 33314</b>			
HOWLAND, I W, JR.....	OPERATION OF A GERM-FREE RODENT COLONY .....	5N01 CM53814-02	840,370
SACKSTEDER, MIRIAM R.....	RESOURCE FOR SYRIAN HAMSTERS.....	1N01 CP65804-00	31,465
ORGANIZATION TOTAL	2 871,835		
<b>GAINESVILLE</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA ZIP CODE 32611</b>			
DAWSON, WILLIAM W.....	STUDY OF MATERIALS FOR A SENSORY PROSTHESIS.....	2N01 NS12286-05	100,900
MORELAND, ALVIN F.....	VIRAL INDUCED MALFORMATIONS IN RHESUS MONKEYS.....	5N01 NS52318-01	108,707
SLOAN, FRANK A.....	INFECTIONS AND ALLERGIC DISEASE IMPACT ON HEALTH .....	3N01 AM2558-09	48,440
SMALL, PARKER A.....	DEVELOPING LEARNING UNITS DESIGNED TO TEACH IMMUNOLOGY.....	4N01 LM64748-00	56,205
SMITH, RICHARD T.....	PLASMA THERAPY OF OSTEOSARCOMA.....	2N01 CB53933-01	45,000
WALDMAN, ROBERT H.....	EVALUATION OF EFFECT OF BGG THERAPY IN LUNG CANCER.....	2N01 CB43857-02	50,000
YOST, WILLIAM A.....	AUDITORY SENSITIVITY & DISCRIMINATION IN YOUNG CHILDREN.....	5N01 NS52313-03	84,000
ORGANIZATION TOTAL	7 493,252		
<b>JACKSONVILLE</b>			
<b>FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES—DIVISION OF HEALTH ZIP CODE 32233</b>			
FARRELL, E W.....	STUDY OF EFFICACY OF AMINE FLUORIDE MOUTH RINSE.....	5N01 DE32427-06	7,884
ORGANIZATION TOTAL	1 7,884		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>FLORIDA—Continued</b>				
<b>ST. VINCENT'S MEDICAL CENTER</b>		<b>ZIP CODE 32204</b>		
MC CLOW, CLARK B .....		BREAST CANCER DETECTION DEMONSTRATION PROJECT .....	2N01 CN55210-01	252,500
ORGANIZATION TOTAL	1			252,500
<b>MELBOURNE</b>				
<b>DBA SYSTEMS, INC.</b>		<b>ZIP CODE 32901</b>		
BROWN, DUANE C .....		DEVELOPMENT OF A PHOTOGRAMMETRIC FUNDUS CAMERA .....	3N01 EY52156-02	27,000
ORGANIZATION TOTAL	1			27,000
<b>MIAMI</b>				
<b>FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES—DADE COUNTY HEALTH DEPARTMENT</b>		<b>ZIP CODE 33125</b>		
SASLAN, MILTON S .....		STUDY OF MULTIPLE-RISK FACTOR IN CORONARY HEART DISEASE .....	2N01 HV42933-06	309,845
ORGANIZATION TOTAL	1			309,845
<b>PAPANICOLAOU CANCER RESEARCH INSTITUTE</b>		<b>ZIP CODE 33136</b>		
LEIF, ROBERT C .....		STAINING GYNECOLOGIC CYTOPATHOLOGIC SPECIMENS .....	2N01 CB43962-04	84,055
RYAN, UNA S .....		STUDY OF FINE STRUCTURE OF NORMAL LUNG CELLS .....	3N01 HR33015-03	25,390
ZUCKER, ROBERT M .....		STUDY OF KINETICS OF TUMOR CELLS .....	2N01 CB83861-02	116,000
ORGANIZATION TOTAL	3			225,445
<b>UNIVERSITY OF MIAMI</b>		<b>ZIP CODE 33152</b>		
BAUER, CHARLES .....		ANTENATAL STEROID THERAPY IN THE PREVENTION OF RDS .....	1N01 HR62951-00	24,770
BLANK, HARVEY .....		DRUG EFFICACY STUDY MUCOCUTANEOUS HERPES INFECTIONS .....	5N01 AI52531-02	103,166
GORDON, MICHAEL S .....		CARDIOLOGY PATIENT SIMULATOR EVALUATION .....	1N01 HV62969-00	106,214
GUNN, SAMUEL A .....		A COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK .....	3N01 CN55243-01	1,568
KALSER, MARTIN H .....		THERAPY OF PATIENTS WITH PANCREATIC CARCINOMA .....	3N01 CM43800-06	26,163
LESSNER, HOWARD E .....		THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA .....	1N01 CM67093-00	121,782
NORTON, EDWARD W .....		STUDY OF DIABETIC RETINOPATHY .....	5N01 EY32118-04	106,845
SIGEL, M MICHAEL .....		IMMUNODEPRESSANT ACTIVITY OF ANTICANCER DRUGS .....	5N01 CM57041-01	95,540
SIGEL, M MICHAEL .....		CELL CULTURE SCREENING OF NEW MATERIALS FOR CYTOTOXICITY .....	1N01 CM67077-00	124,953
SIGEL, M MICHAEL .....		IMMUNOLOGICAL STUDIES ON ANIMAL BREAST CARCINOMA .....	2N01 CP53532-01	119,917
WEINSTEIN, GERALD D .....		CLINICAL EVALUATION OF TOPICAL DRUGS FOR PSORIASIS .....	2N01 AM52223-01	187,357
ORGANIZATION TOTAL	11			1,018,275
<b>MIAMI BEACH</b>				
<b>MOUNT SINAI MEDICAL CENTER</b>		<b>ZIP CODE 33140</b>		
BERNSTEIN, WILLIAM H .....		CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY .....	5N01 HV52933-02	130,532
ORGANIZATION TOTAL	1			130,532
<b>SAINT PETERSBURG</b>				
<b>LIFE SCIENCES, INC.</b>		<b>ZIP CODE 33710</b>		
BEARD, JOSEPH W .....		STUDY OF AVIAN LEUKOSIS VIRUSES .....	3N01 CP33291-03	552,505
FARROW, WENDALL M .....		PRODUCE SELECTED REAGENT GRADE SPF ANIMALS .....	9N01 CP61005-00	759,745
FRANKEL, JACK W .....		STUDY OF THE MAREK'S DISEASE HERPES VIRUS .....	2N01 CP33205-05	878,810
ORGANIZATION TOTAL	3			2,191,060

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>FLORIDA—Continued</b>			
<b>TALLAHASSEE</b>			
STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY		ZIP CODE 32306	
BRANSEN, ROBERT K.....	CURRICULUM PLANNING MODEL.....	1N01 LM64737-00	111,872
WINCHESTER, JOHN W.....	RESPIRATORY IRRITANT ASSOCIATED RED TIDES.....	2N01 ES52113-03	2,000
ORGANIZATION TOTAL	2	113,872	
<b>TAMPA</b>			
ST. JOSEPH'S HOSPITAL		ZIP CODE 33607	
SZAKACS, JENO E.....	STUDY OF HUMAN SARCOMA AND THEIR POSSIBLE VIRAL ETIOLOGY.....	2N01 CP33393-04	59,539
ORGANIZATION TOTAL	1	59,539	
STATE TOTAL	34	5,701,039	
<b>GEORGIA</b>			
<b>ATHENS</b>			
UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA		ZIP CODE 30601	
MC CALL, JOHN W.....	FILARIASIS REPOSITORY RESEARCH SERVICE.....	2N01 A152519-01	75,428
MC CALL, JOHN W.....	CRYOPRESERVATION OF FILARIAE.....	1N01 A162503-00	18,949
ORGANIZATION TOTAL	2	94,377	
<b>ATLANTA</b>			
EMORY UNIVERSITY		ZIP CODE 30322	
BROWN, ROBERT L.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55277-01	265,711
DALE, EDWIN.....	ANTENATAL STEROID THERAPY IN THE PREVENTION OF RDS.....	1N01 HR62954-00	21,365
HALL, DALLAS W.....	EFFECTS OF CONTRACEPTIVE STEROIDS ON BLOOD PRESSURE.....	5N01 HD52831-01	250,500
HALSTEAD, CHARLES L.....	PRODUCTION OF MEDIATED, SELF-INSTRUCTIONAL DENTAL COURSE.....	3N01 LM34726-04	14,290
HERSH, THEODORE.....	EVALUATION OF ASSAYS OF ASSOCIATED ANTIGENS.....	2N01 CB43887-02	52,505
HUGULEY, CHARLES M, JR.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN55131-03	351,677
HUGULEY, CHARLES M, JR.....	METROPOLITAN ATLANTA SEER PROGRAM.....	1N01 CP61027-00	193,621
KALISH, RUTH A.....	DEVELOPMENT OF CANCER TRAINING PROGRAMS FOR THERAPISTS.....	3N01 CN45045-04	14,280
MC CLURE, HAROLD M.....	SUPPORT FOR COLONY OF MONKEYS.....	2N01 CP33343-03	28,000
MC CLURE, HAROLD M.....	INDUCE ORAL FACIAL MALFORMATIONS IN THE RHESUS MONKEY.....	5N01 DE52452-05	42,979
MC GARITY, WILLIAM C.....	ENTEROSTOMAL THERAPY EDUCATION PROGRAM.....	5N01 CN45102-03	73,256
MC LAREN, JOHN R.....	STUDY IMMUNE STIMULANTS IN RADIATION THERAPY.....	1N01 CB64061-00	200,759
MOORE, MELVIN R.....	EVALUATION OF ASSAYS OF ASSOCIATED ANTIGENS.....	2N01 CB43888-03	25,442
MURRAY, DOUGLAS R.....	SUPPLY HUMAN TUMOR SPECIMENS AND RELATED MATERIALS.....	1N01 CP61051-00	33,485
NAHMIAS, ANDRE J.....	STUDIES OF HERPES VIRUS INDUCTION OF CANCER.....	3N01 NS22301-05	15,000
NIXON, DANIEL W.....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY.....	1N01 CP65873-00	136,797
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY FOR THE SOUTHEASTERN REGION.....	2N01 LM24712-04	165,973
POPOVIC, VOJIN P.....	PRESERVATION OF GRANULOCYTES FOR TRANSFUSION.....	3N01 HB42950-06	75,744
TUTTLE, ELBERT P, JR.....	COOPERATIVE STUDY OF HYPERTENSION.....	2N01 WV22938-10	2,042,663
WILHELM, ALFRED E.....	PRODUCTION OF HORMONAL SUBSTANCES.....	2N01 HD32730-07	2,067
ORGANIZATION TOTAL	20	4,006,114	
GEORGIA BAPTIST HOSPITAL		ZIP CODE 30312	
LETTON, A HAMBLIN.....	RESERPINE AND BREAST CANCER CONTROL.....	9N01 CP61050-00	275
ORGANIZATION TOTAL	1	275	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>GEORGIA—Continued</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA INSTITUTE OF TECHNOLOGY      ZIP CODE 30332</b>			
CRENSHAW, J W .....	POLYGENIC ASSAY FOR INDUCED POINT MUTATIONS IN MICE .....	5N01 ES52135-01	146,348
ORGANIZATION TOTAL	1      146,348		
<b>AUGUSTA</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA      ZIP CODE 30902</b>			
BLACK, OWEN, JR .....	POTENTIAL FOR METABOLIC ACTIVATION IN ANIMAL PANCREAS .....	3N01 CP55656-01	55,914
BURNETT, GEORGE A .....	SCREENING ANTIPLAQUE AGENTS AND FOOD ADDITIVES .....	5N01 DE52483-01	59,690
GREEN, JOSEPH B .....	COMPREHENSIVE EPILEPSY PROGRAM .....	1N01 NS62340-00	400,000
GULLEN, WARREN H .....	EPIDEMIOLOGICAL STUDIES OF THE INCIDENCE OF COLON CANCER .....	5N01 CP43282-03	70,177
MAHESH, VIRENDRA B .....	STUDY OF STEROIDAL ORAL CONTRACEPTIVES .....	2N01 HD12297-08	61,887
ORGANIZATION TOTAL	5      647,668		
<b>CLAXTON</b>			
<b>EVANS COUNTY HEALTH DEPARTMENT      ZIP CODE 30417</b>			
HAMES, CURTIS G .....	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION .....	2N01 HV12434-07	243,950
ORGANIZATION TOTAL	1      243,950		
STATE TOTAL	30      5,138,732		
<b>HAWAII</b>			
<b>HONOLULU</b>			
<b>HAWAII DEPARTMENT OF HEALTH      ZIP CODE 96813</b>			
RIGNEY, KLEONA .....	IMPLEMENTATION FOR A CERVICAL CANCER SCREENING PROGRAM .....	1N01 CN65369-00	429,133
ORGANIZATION TOTAL	1      429,133		
<b>KUAKINI MEDICAL CENTER      ZIP CODE 96817</b>			
STEMMERMANN, GRANT N .....	STUDY OF CANCER DATA IN JAPAN-HAWAII POPULATION .....	3N01 CP33216-06	129,433
STEMMERMANN, GRANT N .....	JAPAN-HAWAII CANCER STUDY .....	9N01 CP61060-00	477,591
STEMMERMANN, GRANT N .....	DATA COLLECTION IN CLINICAL PATHOLOGY AND MORBID ANATOMY .....	3N01 HV53009-02	4,011
STEMMERMANN, GRANT N .....	DATA COLLECTION IN CLINICAL PATHOLOGY AND MORBID ANATOMY .....	9N01 HV62955-00	180,000
ORGANIZATION TOTAL	4      791,035		
<b>PACIFIC HEALTH RESEARCH INSTITUTE      ZIP CODE 96813</b>			
GILBERT, FRED I, JR .....	SCREENING FOR DETECTION OF BREAST CANCER .....	2N01 CN45046-02	252,544
MC NAMARA, JOSEPH J .....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY .....	5N01 HV52936-02	70,072
ORGANIZATION TOTAL	2      322,616		
<b>QUEEN'S MEDICAL CENTER      ZIP CODE 96813</b>			
BOYER, CARL .....	ONCOLOGY NURSING PROGRAM IN COMMUNITY HOSPITALS .....	5N01 CN45153-02	58,487
OISHI, NOBORU .....	DEVELOP AND EVALUATE CANCER CARE COORDINATING TEAM .....	1N01 CN65197-00	89,348
ORGANIZATION TOTAL	2      147,835		
<b>ST. FRANCIS HOSPITAL      ZIP CODE 96817</b>			
LAU, THOMAS K .....	AT-HOME REHABILITATION PROGRAMS .....	2N01 CN55201-01	112,188
ORGANIZATION TOTAL	1      112,188		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>HAWAII—Continued</b>			
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA      ZIP CODE 96822</b>			
CHUNG, CHIN S.....	EFFECTS OF ABORTION ON SUBSEQUENT REPRODUCTIVE FUNCTION.....	1N01 HD62801-00	208,730
DEAN, ANDREW G.....	STUDY OF INFECTIOUS DISEASES IN THE PACIFIC.....	2N01 AI02228-09	214,964
HADFIELD, MICHAEL G.....	DEVELOPMENT OF LABORATORY MARICULTURE TECHNIQUES.....	2N01 RR42168-03	40,906
HIROHATA, TOMIO.....	DIET AND NONCONTRACEPTIVE ESTROGENS IN BREAST CANCER.....	2N01 CB53884-01	110,000
LANCE, EUGENE M.....	TUMOR AVOIDANCE OF DESTRUCTION BY THE IMMUNE SYSTEM.....	1N01 CB63978-00	145,344
PIETTE, LAWRENCE H.....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM.....	3N01 CN55267-02	3,000
PIETTE, LAWRENCE H.....	OPERATION OF A GERMFREE RODENT COLONY.....	2N01 CP53511-05	465,550
SAGAWA, YONEO.....	COLLECTION OF INDIGENOUS AND EXOTIC PLANTS.....	2N01 CM33747-07	84,000
WORTH, ROBERT M.....	COLLECTION AND ANALYSIS OF DATA ON LEPROSY.....	2N01 AI52507-01	8,185
ORGANIZATION TOTAL	9	1,280,679	
STATE TOTAL	19	3,083,486	
<b>IDAHO</b>			
<b>BOISE</b>			
<b>ST. LUKE'S HOSPITAL      ZIP CODE 83702</b>			
DAWSON, JOHN J.....	PSYCHOSOCIAL PROBLEMS, REHABILITATION OF CANCER PATIENTS.....	5N01 CN55189-02	116,784
WARD, ELIZABETH.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55305-01	301,819
ORGANIZATION TOTAL	2	418,603	
STATE TOTAL	2	418,603	
<b>ILLINOIS</b>			
<b>CHICAGO</b>			
<b>AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE      ZIP CODE 60601</b>			
MEURK, MARY LOUISE.....	CANCER CONTROL RADIOL. PHYSICS CENTER COORD. COMMITTEE.....	2N01 CN45162-04	205,918
ORGANIZATION TOTAL	1	205,918	
<b>AMERICAN COLLEGE OF RADIOLOGY      ZIP CODE 60606</b>			
LESTER, RICHARD G.....	COORDINATION OF MAMMOGRAPHY EDUCATION PROGRAMS.....	2N01 CN55177-03	186,929
LESTER, RICHARD G.....	MAMMOGRAPHY TEACHING MATERIALS IN DCCR PROGRAMS.....	3N01 CN55275-01	13,760
PRESENT, ARTHUR.....	PLANNING FOR ONCOLOGIC DIAGNOSTIC RADIOLOGY CONFERENCE.....	1N01 CN65364-00	66,180
ORGANIZATION TOTAL	3	266,869	
<b>AMERICAN COLLEGE OF SURGEONS      ZIP CODE 60611</b>			
BERGAN, JOHN J.....	DEVELOPMENT OF TRANSPLANTATION REGISTRY.....	2N01 HV90095-11	16,062
MAYER, ANDREW.....	NATIONAL CANCER CONSULTATIVE PROGRAMS FOR HOSPITALS.....	1N01 CN65282-00	321,401
ORGANIZATION TOTAL	2	337,463	
<b>AMERICAN SOCIETY OF CLINICAL PATHOLOGISTS      ZIP CODE 60612</b>			
GALL, EDWARD.....	PLANNING FOR CANCER CONTROL PATHOLOGY REFERENCE CENTERS.....	1N01 CN65238-00	229,785
ORGANIZATION TOTAL	1	229,785	
<b>BLUE CROSS ASSOCIATION      ZIP CODE 60614</b>			
BERMAN, HOWARD J.....	DEMONSTRATION FOR REIMBURSEMENT IN CANCER CONTROL.....	1N01 CN65371-00	245,726
ORGANIZATION TOTAL	1	245,726	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>ILLINOIS—Continued</b>				
<b>HEXTON INSTITUTE FOR MEDICAL RESEARCH ZIP CODE 60612</b>				
SZANTO, PAUL B.	SUPPLY OF MATERIALS FROM NEOPLASTIC SUBJECTS	2N01 CP43344-02	90,000	
ORGANIZATION TOTAL	1 90,000			
<b>IFT RESEARCH INSTITUTE ZIP CODE 60616</b>				
BAXTER, DAVID W.	SUPPLY OF HAMSTERS TREATED WITH RESPIRATORY CARCINOGENS	3N01 CP43289-02	161,749	
BRUESCHKE, ERICH E.	DEVELOPMENT OF IMPLANTABLE VASECTOMY DEVICES	2N01 HD12229-07	103,697	
GRAY, ALLAN P.	PREPARATION OF FIVE (5) COMPOUNDS	1N01 CP65807-00	62,040	
GRAY, ALLAN P.	PREPARE BUTYL NITROSAMINE AND NITROSOMETHYLUREA	1N01 CP65814-00	21,524	
GRAY, ALLAN P.	PREPARATION OF TWO COMPOUNDS	1N01 CP65819-00	13,488	
GRAY, ALLAN P.	2, 3, 7, 8 - TETRACHLORODIBENZOFURON-14C RADIOSYNTHESIS	1N01 ES62138-00	14,695	
HENRY, MARY C.	INGESTED ASBESTOS EFFECTS	5N01 ES52157-01	399,882	
KEITH, JAMES W.	PRINCIPALS/TECHNIQUES—CHEMICAL CARCINOGEN SAFE HANDLING	1N01 C065278-00	85,748	
KEITH, JAMES W.	CHEMICAL REPOSITORY	5N01 CP55646-03	164,045	
MOON, RICHARD C.	STUDY OF MODULATING FACTORS IN CARCINOGENESIS	2N01 CP23292-04	493,524	
REED, JOSEPHINE M.	SCREENING OF NEW MATERIALS FOR CYTOTOXICITY	1N01 CM63832-00	77,405	
REYNOLDS, WILLIAM E.	TEST AND EVALUATION FACILITY	3N01 HV92125-15	3,255	
SCHIFF, LEONARD J.	OPERATION OF AN ANIMAL DISEASE DIAGNOSTIC LABORATORY	5N01 CM53829-02	122,007	
SCHIPMA, PETER B.	COMPUTER SUPPORT FOR CANCER INFORMATION DISSEMINATION	5N01 C055221-02	492,861	
SHEFNER, ALAN M.	SERVICES IN SUPPORT OF DRUG-SCREENING PROGRAM	5N01 CM43755-05	224,599	
ZANEVELD, LOURENS J.	DEVELOPMENT OF INTRAUTERINE STERILIZATION SYSTEM	3N01 HD12233-08	257,990	
ORGANIZATION TOTAL	16 2,698,509			
<b>ILLINOIS CANCER COUNCIL ZIP CODE 60603</b>				
TAYLOR, SAMUEL G, III.	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK	3N01 CN55245-01	120,511	
TAYLOR, SAMUEL G, III.	DEMONSTRATION PROJECT IN HEAD & NECK CANCER	9N01 CN65256-00	1,447,482	
ORGANIZATION TOTAL	2 1,567,993			
<b>JOHN CRERAR LIBRARY ZIP CODE 60616</b>				
NOT APPLICABLE	SUPPORT FOR REGIONAL MEDICAL LIBRARY	5N01 LM14709-14	295,864	
ORGANIZATION TOTAL	1 295,864			
<b>MERCY HOSPITAL AND MEDICAL CENTER ZIP CODE 60616</b>				
HAWRYLEWICZ, ERVIN J.	SERUM LDH ISOENZYMES IN WOMEN WITH BREAST TUMORS	2N01 CB53855-01	29,960	
ORGANIZATION TOTAL	1 29,960			
<b>MICHAEL REESE HOSPITAL AND MEDICAL CENTER ZIP CODE 60616</b>				
DMOWSKI, W PAUL	INTRAUTERINE RELEASE OF ESTRIOL FOR CONTRACEPTION	2N01 HD32739-06	280,049	
ORGANIZATION TOTAL	1 280,049			
<b>NORTHWESTERN UNIVERSITY ZIP CODE 60611</b>				
DEWYS, WILLIAM D.	ANOREXIA IN ADULT AND PEDIATRIC CANCER PATIENTS	1N01 CP65779-00	201,958	
HARING, OLGA M.	CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY	5N01 HV52929-03	109,573	
ROXE, DAVID M.	COMPARISONS OF MAINTENANCE PERITONEAL AND HEMODIALYSIS	3N01 AM52208-01	5,200	
SCHNEIDER, KENNETH A.	SUPPORT FOR LABORATORY TO DETECT HYPERTENSION	2N01 HV32933-04	265,551	
STAMLER, JEREMIAH	STUDY HYPERTENSION IN THE GENERAL POPULATION	2N01 HV12441-11	340,366	
STAMLER, JEREMIAH	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE	2N01 HV22978-08	709,952	
ORGANIZATION TOTAL	6 1,632,600			
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER ZIP CODE 60612</b>				
BARAM, PETER	EFFECT OF TRANSFER FACTOR ON VIRUS-INDUCED TUMORS	2N01 CB43951-04	52,500	
COHEN, MAYNARD M.	FEASIBILITY STUDY FOR A MODEL STROKE CENTER PROGRAM	1N01 NS62350-00	66,325	
DEINHARDT, FRIEDRICH W.	STUDY OF TUMOR VIRUSES IN PRIMATES	2N01 CP33219-05	667,930	
SCHOENBERGER, JAMES A.	STUDY OF CORONARY HEART DISEASE	3N01 HV42930-02	827,721	
SCHOENBERGER, JAMES A.	CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY	5N01 HV52919-02	105,097	
ORGANIZATION TOTAL	5 1,719,573			

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ILLINOIS—Continued</b>			
<b>ST. JOSEPH HOSPITAL      ZIP CODE 60657</b>			
BERKSON, DAVID M.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52927-02	98,675
ORGANIZATION TOTAL	1	98,675	
<b>UNIVERSITY OF CHICAGO      ZIP CODE 60637</b>			
BIBBO, MARLUCE.....	NEOPLASTIC RISK FROM SYNTHETIC ESTROGEN DURING PREGNANCY.....	3N01 HD42850-03	282,498
DE SOMBRE, EUGENE R.....	NATURE OF HORMONE DEPENDENCY IN BREAST CANCER.....	2N01 CB23873-04	120,000
ENKER, WARREN E.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	1N01 CM67095-00	159,417
FOX, EUGENE N.....	IMMUNIZATION WITH GROUP A STREPTOCOCCAL M PROTEINS.....	3N01 AI32519-09	10,605
FRIED, JOSEF.....	SYNTHESIS OF PROSTAGLANDINS FOR BIOLOGICAL ASSAYS.....	2N01 HD42801-02	155,515
HARPER, PAUL V.....	QUANTIFICATION OF ISCHEMIC & INFARCTED MYOCARDIUM.....	5N01 HV52980-01	132,215
HARVEY, RONALD G.....	DERIVATIVES OF CARCINOGENIC POLYCYCLIC HYDROCARBONS.....	2N01 CP33385-05	98,610
JENSEN, ELWOOD V.....	PREDICTION OF RESPONSE TO ADRENALECTOMY.....	3N01 CB43969-02	115,770
JENSEN, ELWOOD V.....	ESTROGEN-RECEPTOR SUBSTANCES OF OVIDUCT AND UTERUS.....	3N01 HD92108-11	62,792
KOHLER, HEINZ.....	SELECTIVE STIM. OR SUPPRESSION OF IMMUNOLOGIC RESPONSES.....	2N01 CB43998-02	63,700
MATHEWS, MARTIN B.....	PREPARE ACID MUCOPOLYSACCHARIDE STANDARDS.....	5N01 AM52205-01	56,435
MOOSA, A R.....	EARLY DETECTION OF PANCREATIC CANCER.....	2N01 CB43976-03	171,727
WIED, GEORGE L.....	DEVELOPMENT OF AUTOMATED CELL RECOGNITION SYSTEM.....	2N01 CB33873-04	231,473
WIED, GEORGE L.....	EVALUATE PRENEOPLASTIC LESIONS IN THE RESPIRATORY TRACT.....	1N01 CP65777-00	181,266
ORGANIZATION TOTAL	14	1,842,023	
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER      ZIP CODE 60612</b>			
CHATTERTON, ROBERT T, JR.....	DETECTION OF OVULATION BY A STEROID INDICATOR.....	5N01 HD52849-01	41,670
DAS GUPTA, TAPAS K.....	SUPPLY OF MATERIALS FROM NEOPLASTIC SUBJECTS.....	2N01 CP43345-01	57,309
DI MAYORCA, GIAMPIERO.....	TEMPERATURE-SENSITIVE MUTANTS IN CARCINOGENESIS.....	2N01 CP23303-06	180,233
DI MAYORCA, GIAMPIERO.....	MOLECULAR MECHANISM OF CARCINOGENESIS BY ONCOGENIC VIRUS.....	3N01 CP43318-03	142,998
EPSTEIN, SAMUEL S.....	THE MAINTENANCE AND SCHEDULED SACRIFICE OF GUINEA PIGS.....	1N01 CP65843-00	105,209
FARNESWORTH, NORMAN R.....	ISOLATION OF ANTINEOPLASTIC AGENTS FROM PLANTS.....	1N01 CM67090-00	104,495
GOLDBERG, MORTON F.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32125-03	181,007
GOLDBERG, MORTON F.....	STUDIES IN SICKLE CELL DISEASE.....	3N01 HB22956-06	29,300
JONASSON, OLGA.....	HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI22529-06	128,000
PEYMAN, GHOLAM A.....	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY62142-00	57,981
WALTER, RODERICH W.....	SYNTHESIS OF ARGININE VASOTOCIN PEPTIDES.....	1N01 HD62856-00	65,859
ORGANIZATION TOTAL	11	1,094,061	
<b>DECATUR</b>			
<b>LINCOLN LABORATORIES      ZIP CODE 62525</b>			
HEIN, GARY L.....	ASSAY DELAYED HYPERSENSITIVITY VIA-SKIN TEST.....	2N01 CB43954-01	228,989
ORGANIZATION TOTAL	1	228,989	
<b>EVANSTON</b>			
<b>EVANSTON HOSPITAL      ZIP CODE 60201</b>			
KILLIP, THOMAS.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52935-02	75,686
SCANLON, EDWARD F.....	THERAPY OF STAGE II & STAGE III OF BREAST CARCINOMA.....	2N01 CB53917-02	172,200
ORGANIZATION TOTAL	2	247,886	
<b>NORTHWESTERN UNIVERSITY      ZIP CODE 60201</b>			
CUGELL, DAVID W.....	NOCTURNAL OXYGEN THERAPY IN HYPOXIC LUNG DISEASE.....	1N01 HR62945-00	16,050
DEPP, RICHARD.....	ANTENATAL STEROID THERAPY IN THE PREVENTION OF RDS.....	1N01 HR62950-00	30,940
ORGANIZATION TOTAL	2	46,990	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract		Contract No.	Dollars
ILLINOIS—Continued				
GALESBURG				
KNOX COLLEGE      ZIP CODE 61401				
GEER, BILLY W.....	EFFECTS OF DIET ON MUTAGENIC TREATMENT.....	5N01 ES52126-02	43,136	
ORGANIZATION TOTAL	1      43,136			
JOLIET				
AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE      ZIP CODE 60435				
GARVEY, JOSEPH J.....	ACCREDITATION PROGRAM FOR LABORATORY ANIMAL CARE.....	2N01 RR52114-01	10,000	
ORGANIZATION TOTAL	1      10,000			
NORTHBROOK				
BIOLABS, INC.      ZIP CODE 60062				
CASTO, BRUCE C.....	IN VITRO INTERACTION BETWEEN CHEM. & VIRAL CARCINOGENS.....	5N01 CP45615-05	381,748	
GOODHEART, CLYDE R.....	PREPARATION OF PURIFIED ONCOGENIC HERPES VIRUSES.....	3N01 CP22068-06	270	
ORGANIZATION TOTAL	2      382,018			
NORTH CHICAGO				
ABBOTT LABORATORIES      ZIP CODE 60064				
BARLOW, GRANT H.....	STUDY OF HUMAN GRANULOCYTE CONDITIONING FACTOR.....	5N01 CM43704-05	164,393	
ORGANIZATION TOTAL	1      164,393			
URBANA				
UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN      ZIP CODE 61801				
BUBAR, R H.....	IMMUNOGLOBULINS GAMMA-EMITTING FOR DETECTION OF TUMORS.....	1N01 CB64073-00	249,387	
ORGANIZATION TOTAL	1      249,387			
STATE TOTAL	78      14,007,867			
INDIANA				
BLOOMINGTON				
INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT BLOOMINGTON      ZIP CODE 47401				
CUTRIGHT, PHILLIPS.....	FERTILITY TRENDS IN THE US—1917-1972.....	3N01 HD42855-01	11,059	
ORGANIZATION TOTAL	1      11,059			
CUMBERLAND				
HARLAN INDUSTRIES      ZIP CODE 46229				
HARLAN, HAL P.....	SUPPORT FOR RODENT COLONY.....	2N01 CM23218-06	43,105	
HARLAN, HAL P.....	PRODUCTION OF ATHYMIC NUDE MICE.....	1N01 CM67079-00	132,990	
HARLAN, HAL P.....	PRODUCTION OF AGED RATS.....	3N01 CP55647-01	213,816	
HARLAN, HAL P.....	ESTABLISHMENT OF A RODENT PRODUCTION COLONY.....	1N01 CP65737-00	447,410	
TO BE APPOINTED.....	BARRIER-REARED AND MAINTAINED, AGED SPRAGUE-DAWLEY RATS.....	1N01 AG62136-00	48,245	
ORGANIZATION TOTAL	5      885,566			



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>INDIANA—Continued</b>			
<b>ELEKHART</b>			
<b>MILES LABORATORIES      ZIP CODE 46514</b>			
GAVIN, JOHN J.....	STUDY OF SPECIFIC LOCUS MUTANTS IN NEUROSPORA CRASSA.....	2N01 ES32113-06	76,757
ORGANIZATION TOTAL	1	76,757	
<b>INDIANAPOLIS</b>			
<b>INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS      ZIP CODE 46202</b>			
BELL, NORMAN H.....	INVESTIGATE CARBOHYDRATE AND FAT METABOLISM IN UREMIA.....	3N01 AM42223-02	3,681
KAPLAN, JEROME I.....	STUDIES IN ISCHEMIC, INFARCTED & SCARRED MYOCARDIUM.....	5N01 HV52993-01	47,856
MAICKEL, ROGER P.....	PANCREAS UPTAKE EXCRETION: RATS AND GUINEA PIGS.....	5N01 CP55654-01	90,705
MEALEY, JOHN, JR.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM67057-00	51,919
ROESKE, ROGER W.....	PEPTIDE ANTAGONISTS OF LH-RH AS OVULATION INHIBITORS.....	1N01 HD62844-00	66,316
ORGANIZATION TOTAL	5	260,477	
<b>INDIANAPOLIS CENTER FOR ADVANCED RESEARCH      ZIP CODE 46202</b>			
FRANKLIN, THOMAS D.....	ULTRASOUND IN ISCHEMIC AND INFARCTED MYOCARDIUM.....	3N01 HV53004-03	84,623
FRY, FRANCIS J.....	STUDY OF ULTRASONIC DIAGNOSTIC TECHNIQUES.....	2N01 NS32319-06	85,294
ORGANIZATION TOTAL	2	169,917	
<b>LABORATORY SUPPLY COMPANY      ZIP CODE 46241</b>			
COX, ELDON J.....	CONVENTIONAL ENVIRONMENT RODENT PRODUCTION CENTER.....	5N01 CM53775-01	129,731
ORGANIZATION TOTAL	1	129,731	
<b>METHODIST HOSPITAL OF INDIANA      ZIP CODE 46202</b>			
DUGAN, WILLIAM M, JR.....	CLINICAL ONCOLOGY PROGRAM.....	1N01 CN65336-00	71,447
ORGANIZATION TOTAL	1	71,447	
<b>NEW CASTLE</b>			
<b>INDIANA STATE DEPARTMENT OF MENTAL HEALTH—NEW CASTLE STATE HOSPITAL      ZIP CODE 47362</b>			
BROCK, JOSEPH T.....	STUDY OF CARBAMAZEPINE AS AN ANTICONVULSANT AGENT.....	2N01 NS81310-12	81,566
ORGANIZATION TOTAL	1	81,566	
<b>WEST LAFAYETTE</b>			
<b>PURDUE UNIVERSITY      ZIP CODE 47907</b>			
CASSADY, JOHN M.....	ISOLATION OF ANTINEOPLASTIC AGENTS FROM PLANTS.....	1N01 CM67091-00	129,088
ORGANIZATION TOTAL	1	129,088	
STATE TOTAL	18	1,815,608	
<b>IOWA</b>			
<b>DES MOINES</b>			
<b>IOWA LUTHERAN HOSPITAL      ZIP CODE 50316</b>			
YOUNG, DONALD C.....	SCREENING FOR EARLY DETECTION OF CANCER.....	2N01 CN45067-03	261,348
ORGANIZATION TOTAL	1	261,348	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>IOWA—Continued</b>			
<b>IOWA CITY</b>			
<b>UNIVERSITY OF IOWA</b>	<b>ZIP CODE 52242</b>		
ABBOUD, FRANCOIS M.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV22913-05	954,600
BERG, JOHN W.....	POPULATION-BASED CANCER EPIDEMIOLOGY RESEARCH CENTER.....	2N01 CP43200-03	470,469
HOAK, JOHN C.....	STUDY ON PLATELET TYPING.....	3N01 HB32957-04	117,456
KISKER, C THOMAS.....	COAGULATION CHANGES IN HUMAN VASECTOMY.....	1N01 HD62827-00	52,625
KRAUSE, CHARLES.....	PSYCHOSOCIAL REHABILITATION OF CANCER PATIENTS.....	5N01 CN55061-02	179,626
MACKENZIE, IAN C.....	NUTRITION ON THE EPITHELIUM OF ORAL MUCOUS MEMBRANES.....	5N01 DE42441-03	87,655
OSBORNE, JAMES W.....	ANIMAL MODELS FOR CIRCULATING TUMOR ASSOCIATED ANTIGENS.....	2N01 CB43891-02	96,113
RICHERSON, HAL B.....	ANIMAL MODEL OF PULMONARY FIBROSIS.....	5N01 HR53013-01	41,930
STRAUSS, RONALD.....	COLLECTION, FUNCTION AND TRANSFUSION OF GRANULOCYTES.....	1N01 HB62973-00	127,076
WATZKE, ROBERT C.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32123-04	168,748
WEI, STEPHEN H.....	EVALUATION OF TECHNIQUES TO DETERMINE FLUORIDE CONTENT.....	5N01 DE32429-04	27,907
WURSTER, DALE E.....	DEVELOPMENT OF PARENTERAL DOSAGE FORMS.....	5N01 CM43743-03	190,874
ORGANIZATION TOTAL	12	2,515,079	
STATE TOTAL	13	2,776,427	
<b>KANSAS</b>			
<b>KANSAS CITY</b>			
<b>UNIVERSITY OF KANSAS</b>	<b>ZIP CODE 66103</b>		
AZARNOFF, DANIEL L.....	PHARMACOKINETICS OF ANTICANCER DRUGS.....	2N01 CM12184-06	95,891
BOUDET, ROBERT A.....	CASE CONTROL STUDY OF RESERPINE & BREAST CANCER.....	1N01 CP61014-00	1,800
BRACKETT, CHARLES E, JR.....	STUDY OF POST-TRAUMATIC EPILEPSY FOLLOWING HEAD INJURY.....	3N01 NS22313-06	132,008
DIEDERICH, DENNIS A.....	ROLE OF HEMOGLOBIN CARBAMYLATION IN SICKLE CELL ANEMIA.....	2N01 HB22919-05	103,939
EBNER, KURT.....	PROLACTIN INTERACTIONS IN MAMMARY GLAND CELLS.....	1N01 CB63985-00	84,600
HOOGSTRATEN, BARTH.....	CANCER CONTROL PROGRAM—SOUTHWEST ONCOLOGY GROUP.....	1N01 CN65285-00	785,739
HUMPHREY, LOREN J.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55303-01	306,258
REDDY, JANARDAN K.....	STUDY OF HISTOGENESIS OF PANCREATIC ADENOCARCINOMA.....	2N01 CP23271-03	92,902
REISSMANN, KURT R.....	RESPONSE TO ERYTHROPOIETIN IN CHRONIC UREMIC MICE.....	1N01 AM62215-00	74,215
ORGANIZATION TOTAL	9	1,677,352	
<b>LAWRENCE</b>			
<b>UNIVERSITY OF KANSAS</b>	<b>ZIP CODE 66045</b>		
HIGUCHI, TAKERU.....	DEVELOPMENT OF PARENTERAL DOSAGE FORMS.....	5N01 CM23217-07	100,000
WEIR, JOHN A.....	OPERATION OF GENETIC CENTER FOR RODENTS.....	5N01 CM53819-02	201,474
ORGANIZATION TOTAL	2	301,474	
STATE TOTAL	11	1,978,826	
<b>KENTUCKY</b>			
<b>FRANKFORT</b>			
<b>KENTUCKY DEPARTMENT FOR HUMAN RESOURCES</b>	<b>ZIP CODE 40601</b>		
HERNANDEZ, C.....	EXPANSION OF KENTUCKY CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45083-03	54,774
ORGANIZATION TOTAL	1	54,774	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>KENTUCKY—Continued</b>				
<b>LEXINGTON</b>				
UNIVERSITY OF KENTUCKY		ZIP CODE 40506		
BLACKER, H MARTIN	THERAPY OF PATIENTS WITH BRAIN TUMORS	1N01 CM67058-00	69,920	
BOLLUM, FREDERICK J	TERMINAL TRANSFERASE LEVEL IN ACUTE LYMPHOCYTIC LEUKEMIA	1N01 CM67038-00	151,438	
GOLDENBERG, DAVID M	SPECIFIC LABELLED IMMUNOGLOBULINS FOR TUMORS DETECTION	1N01 CB64011-00	197,171	
MILLER, WILLIAM	REMOVAL OF HLA ANTIGENS FROM BLOOD	3N01 HB12409-09	3,833	
WILLIAMS, NOFFLET D	DEVELOP AND SUPPORT A CTS FACILITY	1N01 LM64740-00	8,995	
ORGANIZATION TOTAL	5	431,357		
<b>LOUISVILLE</b>				
UNIVERSITY OF LOUISVILLE		ZIP CODE 40208		
CHRISTOPHERSON, WILLIAM M	EVALUATION OF MASS SCREENING FOR UTERINE CANCER	5N01 CN45059-02	30,678	
MOORE, CONDUCT	NETWORK DEMONSTRATION PROJECT IN BREAST CANCER	2N01 CN45149-02	314,158	
MOORE, CONDUCT	BREAST CANCER DETECTION DEMONSTRATION PROJECT	2N01 CN55307-01	365,558	
SONGSTER, CURTIS	DETECTION OF SMALL AMOUNTS OF HUMAN BLOOD IN FECES	2N01 CB43968-02	83,255	
TAMBURRO, CARLO H	DEMONSTRATION CANCER CONTROL PROGRAM IN INDUSTRY	5N01 CN55212-02	844,861	
ORGANIZATION TOTAL	5	1,638,510		
STATE TOTAL	11	2,124,641		
<b>LOUISIANA</b>				
<b>BATON ROUGE</b>				
GULF SOUTH RESEARCH INSTITUTE		ZIP CODE 70808		
GREER, WILLIAM E	SUPPORTING SERVICES ON VIRAL RESEARCH PROJECT	2N01 NS80993-17	460,110	
KLEIN, ELIAS	EVALUATION OF MEMBRANES AND MATERIALS	3N01 AM22221-07	110,067	
KLEIN, ELIAS	REVISE PUBLICATIONS ON EVALUATION OF HEMODIALYZERS	1N01 AM62216-00	21,513	
ORGANIZATION TOTAL	3	591,690		
<b>COVINGTON</b>				
TULANE UNIVERSITY		ZIP CODE 70433		
GERONE, PETER J	EVALUATION OF ANTIVIRAL SUBSTANCES IN ANIMALS	2N01 AI52525-02	22,250	
LOWRIE, ROBERT C, JR	CRYOPRESERVATION OF FILARIAE	1N01 AI62504-00	23,652	
RANGAN, S R	ROLE OF IMMUNITY IN OUTCOME OF INFECTION	2N01 CP33396-04	60,545	
SOIKE, KENNETH F	STUDY OF HEPATITIS IN CHIMPANZEES	2N01 AI12197-06	13,422	
ORGANIZATION TOTAL	4	119,869		
<b>NEW IBERIA</b>				
GULF SOUTH RESEARCH INSTITUTE-ATCHAFALAYA BASIN LABORATORIES		ZIP CODE 70560		
GREER, WILLIAM E	MAINTAINING BREEDING COLONY OF RHESUS MONKEYS	5N01 RS42181-02	149,200	
GREER, WILLIAM E	PROCUREMENT OF TIMED PREGNANT RHESUS MONKEYS	1N01 RS62112-00	193,000	
ORGANIZATION TOTAL	2	342,200		
<b>NEW ORLEANS</b>				
ALTON OCHSNER MEDICAL FOUNDATION		ZIP CODE 70121		
SEGALOFF, ALBERT	STUDY OF INTERACTION OF RADIATION AND ESTROGENS	2N01 CP43229-02	167,000	
SEGALOFF, ALBERT	INFLUENCE OF IRRADIATION ON CARCINOGENESIS	1N01 CP65764-00	100,370	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>LOUISIANA—Continued</b>				
ORGANIZATION TOTAL	2	267,370		
<b>GULF SOUTH RESEARCH INSTITUTE—LAKE PONTCHARTRAIN LABORATORIES ZIP CODE 70146</b>				
RAWLS, HENRY R.....		DIAGNOSTIC SYSTEM FOR EARLY DETECTION OF DENTAL CARIES.....	2N01 DE32425-05	9,749
ORGANIZATION TOTAL	1	9,749		
<b>LOUISIANA HEALTH AND HUMAN RESOURCES ADMINISTRATION—CHARITY HOSPITAL OF LOUISIANA ZIP CODE 70140</b>				
BRICKMAN, ISADORE D.....		STATE CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45080-02	415,058
KREMENTZ, EDWARD T.....		SUPPORT FOR LOUISIANA TUMOR REGISTRY.....	2N01 CP43262-04	247,878
ORGANIZATION TOTAL	2	662,936		
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS ZIP CODE 70119</b>				
LILLIE, RALPH D.....		DEVELOPMENT OF SUBSTITUTES FOR HEMATOXYLIN.....	2N01 CB43912-03	46,362
STRONG, JACK P.....		EPIDEMIOLOGY AND GEOGRAPHIC PATHOLOGY OF CANCER.....	3N01 CP53521-01	241,277
VILLAREJOS, VICTOR M.....		SAFETY OF BLOOD THERAPY RESEARCH STUDIES.....	1N01 HB62907-00	43,157
ORGANIZATION TOTAL	3	330,796		
<b>TULANE UNIVERSITY ZIP CODE 70118</b>				
BOWERS, CYRIL Y.....		STUDIES OF SMALL PEPTIDES WHICH RELEASE LH AND FSH.....	3N01 HD22713-06	23,609
BURNS, KENNETH F.....		OPERATION OF A GERM-FREE RODENT COLONY.....	5N01 CM53815-01	376,709
GOTTLIEB, MARISE S.....		EPIDEMIOLOGIC STUDIES OF CANCER IN LOUISIANA.....	1N01 CP61058-00	126,018
KLAWITTER, JEROME J.....		HISTOLOGICAL ACCEPTANCE OF ARTIFICIAL TEETH.....	1N01 DE62490-00	44,595
SCHALLY, ANDREW V.....		TESTING ANTAGONISTS OF LH-RH AS OVULATION INHIBITORS.....	1N01 HD62841-00	124,615
ORGANIZATION TOTAL	5	695,546		
STATE TOTAL	22	3,020,156		
<b>MAINE</b>				
<b>BAR HARBOR</b>				
<b>JACKSON LABORATORY ZIP CODE 04609</b>				
CHERRY, MARIANNA.....		PROD. OF H-2 RECOMB. OR MUTANT COGENIC MICE.....	2N01 CB43988-02	20,103
CHERRY, MARIANNA.....		PREPARATION AND DISTRIBUTION OF RABBIT SERUM COMPLEMENT.....	2N01 CB53870-01	98,961
MEIER, HANS.....		NATURAL OCCURRENCE OF RNA TUMOR VIRUSES.....	2N01 CP33255-05	470,000
RODERICK, THOMAS H.....		DEVELOPMENT OF SYSTEM FOR DETECTING LETHAL MUTATIONS.....	5N01 ES42156-02	140,218
WOMACK, JAMES E.....		DEVELOPMENT OF A NEW MOUSE STRAIN.....	5N01 ES42159-04	78,433
ORGANIZATION TOTAL	5	807,715		
STATE TOTAL	5	807,715		
<b>MARYLAND</b>				
<b>BALTIMORE</b>				
<b>IPCO HOSPITAL SUPPLY CORPORATION—COMMUNITY BLOOD AND PLASMA SERVICES DIVISION ZIP CODE 21231</b>				
SCHMIDT, PAUL J.....		SUPPLY OF PLATELETHESISIS.....	5N01 CL42150-09	959,620
ORGANIZATION TOTAL	1	959,620		
<b>JOHN F. KENNEDY INSTITUTE ZIP CODE 21205</b>				
STARK-SEITZ, RACHEL E.....		SENSORY & PERCEPTUAL FUNCTIONS IN LANGUAGE DEVELOPMENT.....	5N01 NS52323-03	40,778
ORGANIZATION TOTAL	1	40,778		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
<b>JOHNS HOPKINS UNIVERSITY ZIP CODE 21218</b>			
AURELIAN, LAURE.....	HERPES VIRUS ANTIGENS AND VIRIONS IN NEOPLASTIC CELLS.....	2N01 CP33345-04	88,000
BIAS, WILMA B.....	PREVALENCE OF SPECIFIC HLA ANTIGENS AND LUNG DISEASES.....	1N01 HR62937-00	40,617
BOYER, SAMUEL H.....	PRENATAL DIAGNOSIS OF INHERITED BLOOD DISEASES.....	2N01 HB12403-09	47,345
BURKMAN, RONALD T.....	RISK OF SERIOUS COMPLICATIONS IN IUD WEARERS.....	1N01 HD62804-00	92,548
COHEN, BERNICE H.....	STUDY OF ALPHA 1 ANTITRYPSIN DEFICIENCY.....	2N01 HR12216-07	105,125
EDIDIN, MICHAEL A.....	STUDY OF MEMBRANE COMPONENTS OF CELL SURFACE.....	2N01 CB43922-02	66,536
EWING, LARRY L.....	CONTRACEPTIVE EFFECTS OF TESTOSTERONE.....	5N01 HD32745-06	111,265
FROST, JOHN K.....	STUDY OF EARLY DETECTION OF CANCER OF THE LUNGS.....	2N01 CM45037-02	1,679,060
GRIFFITH, LAWRENCE S.....	COLLABORATIVE STUDIES IN CORONARY ARTERY SURGERY.....	1N01 HV62924-00	80,933
HARDY, JANET B.....	EVALUATE CONTINUING EDUCATION IN PULMONARY MEDICINE.....	1N01 HR62934-00	116,030
HARDY, JANET B.....	ANALYSIS OF COOPERATIVE PERINATAL STUDY.....	2N01 NS23221-05	68,629
HENNEY, CHRISTOPHER S.....	MECHANISMS FOR CELL-MEDIATED DESTRUCTION OF TUMOR CELLS.....	2N01 CB43932-02	54,953
HENNEY, CHRISTOPHER S.....	IMPROVEMENT OF ASSAYS FOR CELL-MEDIATED IMMUNITY.....	2N01 CB43965-02	70,126
HUMPHREY, RICHARD L.....	DEVELOPMENT OF METHOD FOR ENUMERATION OF TUMOR CELLS.....	5N01 CM43718-03	31,500
JOHNSON, RICHARD T.....	STUDY OF NEW PAPOVIRUSES ISOLATED FROM MAN.....	3N01 CP43266-04	30,000
KAIZER, HERBERT.....	PEDIATRIC TUMOR RESOURCE.....	2N01 CP33245-03	29,000
KAUFMAN, JOYCE J.....	EFFECTS ON CULTURED CELLS OF LIPOPHILIC COMPOUNDS.....	2N01 NS52320-01	61,398
KAZAZIAN, HAIG H, JR.....	PRENATAL DIAGNOSIS OF INHERITED BLOOD DISEASES.....	2N01 HB12401-09	33,720
KWITEROVICH, PETER O.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV12158-09	2,762,786
LEMBERG, STANFORD I.....	TOPICAL CHEMOTHERAPEUTIC AGENTS FOR MYCOSIS FUNGOIDES.....	1N01 CB63927-00	93,539
LENHARD, RAYMOND E, JR.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CM55241-02	1,568
MARGOLIS, SIMEON.....	INVESTIGATE SERUM LIPID AND LIPOPROTEIN ABNORMALITIES.....	2N01 AM42218-03	54,352
NIEBYL, JENNIFER.....	SELECTED FACTORS INFLUENCING INCIDENCE OF ORAL CLEFTS.....	1N01 DE62486-00	238,560
PATZ, ARNALL.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32127-04	292,270
PIERCE, NATHANIEL F.....	ADDITIONAL STUDIES OF ANTITOXIC IMMUNITY IN CHOLERA.....	3N01 AI02051-12	111,314
ROSEMAN, SAUL.....	BIOCHEMISTRY OF NORMAL AND TUMOR CELL SURFACE ANTIGENS.....	2N01 CB43985-02	81,439
SCHUETZ, ALLEN W.....	STUDY OF DYNAMICS OF SPERMATOGENESIS.....	5N01 HD32794-03	74,057
STOLLEY, PAUL B.....	EPIDEMIOLOGIC STUDIES OF DRUG INDUCED CANCER.....	1N01 CP61023-00	144,000
STRANDBERG, JOHN D.....	PATHOLOGY SERVICES AND STUDIES.....	3N01 CP43288-03	13,344
STRANDBERG, JOHN D.....	ANIMAL PATHOLOGY SUPPORT.....	1N01 CP65768-00	146,867
TALAMO, RICHARD C.....	ALPHA-1-ANTITRYPSIN REFERENCE LABORATORY.....	2N01 HR42967-02	72,070
TS'O, PAUL O.....	STUDIES ON SIGNIFICANCE OF MUTATION IN CARCINOGENESIS.....	2N01 CP55713-01	186,494
ORGANIZATION TOTAL	32 7,079,445		
<b>OMNI RESEARCH ZIP CODE 21215</b>			
NOT APPLICABLE.....	BUILDING TOXICOLOGY DATA FILES.....	3N01 LM44738-07	58,563
ORGANIZATION TOTAL	1 58,563		
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND AT BALTIMORE ZIP CODE 21201</b>			
ADIR, JOSEPH.....	STUDY OF TOBACCO SMOKE CONSTITUENTS.....	3N01 CP43312-03	13,070
ENTWISLE, GEORGE.....	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION.....	2N01 HV12439-10	667,673
FERENCZ, CHARLOTTE.....	RELATE MATERNAL HORMONE THERAPY TO CARDIAC DEVELOPMENT.....	1N01 HD62800-00	160,305
GARCIA, JULIO H.....	CAPILLARY ANGIOGENESIS IN ACUTE CEREBRAL ISCHEMIA.....	5N01 NS52310-02	33,921
HINTON, DAVID E.....	BIOLOGY OF NEOPLASTIC LIVER LESIONS IN MICE.....	1N01 CP65752-00	63,564
HORNICK, RICHARD B.....	STUDY OF INFECTIOUS AGENTS IN ADULT VOLUNTEERS.....	3N01 AI42553-02	1,128,820
KROL, WILLIAM F.....	COORDINATING CENTER—ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	2N01 HV52901-02	482,828
MEINERT, CURTIS L.....	COORDINATING CENTER MODEL FOR NHL CLINICAL TRIALS.....	1N01 HV62957-00	156,619
RAITI, SALVATORE.....	PITUITARY GLAND STORAGE BANK.....	2N01 AM71153-15	1,045,032
TRUMP, BENJAMIN F.....	STUDY OF TRACHEOBRONCHIAL EPITHELIUM.....	3N01 CP43237-04	305,174
WENTZ, DENNIS K.....	SUPPORT FOR MEDICAL AND LABORATORY PROGRAMS.....	3N01 CM43748-06	3,815,000
ORGANIZATION TOTAL	11 7,872,006		
<b>WESTINGHOUSE ELECTRIC CORPORATION—WESTINGHOUSE DEFENSE AND ELECTRONIC SYSTEMS DIVISION ZIP CODE 21203</b>			
DEEDS, SIGRID G.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	5N01 CM55094-03	129,032
ORGANIZATION TOTAL	1 129,032		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>				
<b>BELTSVILLE</b>				
<b>INFORMATION DEVELOPMENT AND APPLICATIONS</b>		<b>ZIP CODE 20705</b>		
MATHESON, RODERICK .....	LEARNING RESOURCE CENTER SUPPORT.....	1N01 LM64705-00	45,000	
ORGANIZATION TOTAL	1 45,000			
<b>BETHESDA</b>				
<b>AMERICAN SOCIETY OF HOSPITAL PHARMACISTS</b>		<b>ZIP CODE 20014</b>		
REILLY, MARY J. ....	EXTRACTION OF DATA ON DRUGS .....	3N01 LM54750-01	13,470	
ORGANIZATION TOTAL	1 13,470			
<b>ASSOCIATION OF COMMUNITY CANCER CENTERS</b>		<b>ZIP CODE 20014</b>		
KATTERHAGEN, GALE .....	CANCER CONTROL ASSISTANCE PROGRAM—HEALTH PROFESSIONALS.....	1N01 CN65372-00	65,620	
ORGANIZATION TOTAL	1 65,620			
<b>COMPUTER DATA SYSTEMS</b>		<b>ZIP CODE 20014</b>		
BERMAN, NANCY .....	SYSTEMS ANALYSIS AND PROGRAMMING FOR PERINATAL DATA.....	2N01 NS42327-01	73,400	
ORGANIZATION TOTAL	1 73,400			
<b>ELECTRO-NUCLEONICS LABORATORIES</b>		<b>ZIP CODE 20014</b>		
LEMP, JOHN F, JR. ....	PRODUCTION OF ONCOGENIC VIRUSES .....	2N01 CP23249-08	739,967	
LEMP, JOHN F, JR. ....	DEVELOPMENT OF PROPAGATION PROCEDURES OF VIRUSES.....	3N01 CP33355-04	29,939	
LEMP, JOHN F, JR. ....	VIRUS PROCESSING AND PRODUCTION FACILITY.....	2N01 CP43334-02	559,306	
ORGANIZATION TOTAL	3 1,329,212			
<b>INFORMATION SERVICES</b>		<b>ZIP CODE 20014</b>		
JOHNSON, DALLAS .....	CANCER PUBLIC INFORMATION PUBLICATION.....	3N01 C055227-01	25,073	
ORGANIZATION TOTAL	1 25,073			
<b>INTERNATIONAL BUSINESS MACHINES CORPORATION</b>		<b>ZIP CODE 20034</b>		
NOT APPLICABLE .....	PROVIDE NLM SYSTEMS ENGINEERING SUPPORT.....	1N01 LM64709-00	7,900	
NOT APPLICABLE .....	PROVIDE SYSTEMS ENGINEERING SUPPORT.....	1N01 LM64751-00	9,050	
ORGANIZATION TOTAL	2 16,950			
<b>UNIVERSITIES ASSOCIATED FOR RESEARCH AND EDUCATION IN PATHOLOGY</b>		<b>ZIP CODE 20014</b>		
EARLE, KENNETH .....	COLLECTION OF SERIALY SECTIONED BRAIN SPECIMENS.....	3N01 NS42303-04	51,841	
HANSEN, JAMES L.....	TISSUE EVALUATION OF CONTRACEPTIVE STEROIDS.....	5N01 HD22729-08	47,535	
ORGANIZATION TOTAL	2 99,376			
<b>WHITTAKER CORPORATION—MICROBIOLOGICAL ASSOCIATES</b>		<b>ZIP CODE 20014</b>		
ATHEY, W L .....	GENETIC CENTER IN BIOCONTAINMENT ENVIRONMENT.....	5N01 CM53818-01	290,200	
BERMAN, JAY .....	CANCER CHEMOTHERAPY CHEMICALS/DRUGS STORAGE/DISTRIBUTION.....	5N01 CM43793-05	435,800	
CASTELLANO, GABRIEL A.....	PROVIDE VIRAL DIAGNOSTIC REAGENTS.....	1N01 NS62338-00	189,750	
DUBOIS, RONALD J.....	SYNTHESIS OF UNIQUE COMPOUNDS FOR CANCER CHEMOTHERAPY.....	5N01 CM43761-04	397,642	
FREEMAN, A E .....	IN VITRO MALIGNANT TRANSFORMATION.....	1N01 CP61043-00	205,157	
KOURI, R E .....	SCREENING METHOD TO DETERMINE SMOKING HAZARDS.....	2N01 CP43309-03	44,700	
KOURI, R E .....	MICROSOMAL ENZYME STUDIES.....	2N01 CP55605-01	73,805	
MC KINNEY, ROBERT.....	PREPARE AND DELIVER VARIOUS CELL CULTURES.....	1N01 NS62334-00	125,924	
MISHRA, NIRMAL K.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	5N01 CP55670-01	197,992	
MULLINAX, H DOYLE.....	STUDY OF BIOCHEMISTRY AND NEURAL CODING OF BRAIN CELLS.....	2N01 H92245-14	45,990	
NIMS, ROBERT M.....	PROVIDE SERVICES IN SUPPORT OF CARCINOGENESIS BIOASSAYS.....	2N01 CP02199-13	927,700	
NIMS, ROBERT M.....	BIOASSAYS OF ANIMAL TUMOR VIRUSES.....	2N01 CP33248-05	655,000	
PARKER, JOHN .....	OPERATION OF AN ANIMAL VIROLOGICAL DIAGNOSTIC LABORATORY.....	1N01 CM67069-00	175,800	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1975 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
PARKER, JOHN.....	VIRUS TYPING AND DIAGNOSTIC REAGENTS.....	2N01 CP33288-06	471,100
PREMKUMAR, REDDY.....	STUDIES OF TYPE C RNA TUMOR VIRUSES.....	3N01 CP43254-04	329,862
PRICE, PAUL J.....	DEVELOPMENT OF MAMMALIAN CELL LINES.....	1N01 CP61045-00	231,779
TRAPANI, ROBERT-JOHN.....	EVALUATE HUMAN HISTOCOMPATIBILITY OF TYPING TRAYS.....	2N01 AI12443-08	47,660
TRAPANI, ROBERT-JOHN.....	HUMAN HISTOCOMPATIBILITY TYPING CENTER.....	3N01 CB92177-13	8,651
TRAPANI, ROBERT-JOHN.....	HEMATOLOGY SUPPORT CARE.....	1N01 CM63810-00	200,000
VERNON, MINA L.....	STUDY OF ETIOLOGY OF CANCER.....	3N01 CP43240-04	804,000
VERNON, MINA L.....	TYPE-C RNA TUMOR VIRUSES DIAGNOSTIC TESTING.....	3N01 CP53519-02	781,000
ORGANIZATION TOTAL	21	6,639,512	
<b>CHEVERLY</b>			
<b>INFORMATICS, INC.—INFORMATION SYSTEMS COMPANY ZIP CODE 20785</b>			
HYATT, CECIL A, JR.....	PREPARATION OF MEDLARS ABSTRACTS.....	2N01 LM44703-04	353,610
ORGANIZATION TOTAL	1	353,610	
<b>CHEVY CHASE</b>			
<b>UNIVERSITY RESEARCH CORPORATION ZIP CODE 20015</b>			
STEINBERG, S.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	5N01 CN55087-04	148,978
ORGANIZATION TOTAL	1	148,978	
<b>COLLEGE PARK</b>			
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND COLLEGE PARK CAMPUS ZIP CODE 20742</b>			
KELLOGG, R BRUCE.....	MATHEMATICAL MODELING OF THE KIDNEY.....	2N01 HI52900-06	2,800
PRESSER, HARRIET B.....	CONSEQUENCE OF TEENAGE CHILDBEARING FOR URBAN WOMEN.....	1N01 HD62836-00	101,246
ORGANIZATION TOTAL	2	104,046	
<b>COLUMBIA</b>			
<b>W. R. GRACE AND COMPANY—WASHINGTON RESEARCH CENTER ZIP CODE 21044</b>			
NICKELL, LOUIS G.....	ISOLATION OF NOVEL ANTINEOPLASTIC COMPONENTS.....	1N01 CM67074-00	207,628
ORGANIZATION TOTAL	1	207,628	
<b>GAITHERSBURG</b>			
<b>GEOMET, INC. ZIP CODE 20760</b>			
COOK, JONATHAN D.....	THIRD NATIONAL CANCER SURVEY DATA PROCESSING SERVICES.....	3N01 CP53522-01	487,886
POCINKI, LEON.....	ASSESS MANPOWER NEEDS IN CLINICAL ONCOLOGY SPECIALTIES.....	1N01 CB64017-00	92,000
ORGANIZATION TOTAL	2	579,886	
<b>GERMANTOWN</b>			
<b>FAIRCHILD INDUSTRIES ZIP CODE 20767</b>			
HOCH, KENNETH.....	INSTALLATION REPORT FOR FIVE CTS SITES.....	1N01 LM64756-00	25,000
NOT APPLICABLE.....	6 COMMUNICATIONS TECHNOLOGY SATELLITE GROUND TERMINALS.....	1N01 LM64717-00	972,000
ORGANIZATION TOTAL	2	997,000	
<b>KENSINGTON</b>			
<b>LITTON INDUSTRIES—LITTON BIONETICS ZIP CODE 20795</b>			
BRUSICK, DAVID J.....	MUTAGENESIS SYSTEMS FOR CARCINOGENESIS SCREENING.....	1N01 CP65856-00	159,840

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
CICMANEC, JOHN L.....	FACILITY FOR SUBHUMAN PRIMATES FOR CANCER RESEARCH.....	9N01 CP61006-00	2,772,694
DARROW, CLEMENT C, II.....	PRODUCTION OF STANDARDIZED ALS.....	3N01 CB02103-13	59,788
DARROW, CLEMENT C, II.....	BREEDING COLONY OF RHESUS MONKEYS MACACA MULATTA.....	5N01 RR52155-03	249,100
DARROW, CLEMENT C, II.....	MAINTAIN A BREEDING COLONY OF RHESUS MONKEYS.....	1N01 RR62151-00	155,073
DEAN, JACK H.....	IMMUNOLOGIC ASSESSMENT OF HIGH RISK CANCER FAMILIES.....	9N01 CP61016-00	110,424
KINGSBURY, ELIZABETH.....	PREPARATION OF EXPERIMENTAL BIOLOGICAL MATERIALS.....	3N01 CP22063-05	80,050
MACKLER, BRUCE F.....	ISOLATION OF ANTIGENS FROM HUMAN DENTAL PLAQUE.....	3N01 DE22414-09	27,512
MANUS, ALLEN G.....	HOLDING FACILITY FOR SMALL LABORATORY ANIMALS.....	1N01 CP61039-00	219,544
MARTIN, DAVID P.....	SUPPORT FOR PRIMATE DIAGNOSTIC LABORATORY.....	3N01 CP43224-06	29,461
MARTIN, DAVID P.....	MODELS OF ATHEROSCLEROSIS.....	2N01 HV53031-01	1,119,890
MATHESON, DALE.....	IN VITRO MUTAGENESIS SYSTEM FOR CARCINOGENESIS SCREENING.....	1N01 CP65853-00	179,053
MATTHEWS, EDWIN J.....	MELANOMA CELL VACCINE-ASSAYS FOR CYTOTOXICITY.....	2N01 CB53916-03	320,607
MAURER, BRUCE.....	RHESUS MONKEY HISTOCOMPATIBILITY STUDIES.....	1N01 CB64016-00	215,887
MC COY, JAMES L.....	MEASUREMENT OF IMMUNOLOGICAL REACTIVITY TO HUMAN CANCER.....	3N01 CB23227-09	94,832
MC COY, JAMES L.....	MEASUREMENT OF IMMUNOLOGICAL REACTIVITY TO HUMAN CANCER.....	1N01 CB63975-00	1,024,256
MC COY, JAMES L.....	BIOLOGIC STUDIES OF SOLUBILIZED TUMOR ANTIGENS.....	1N01 CB63987-00	440,542
MORGAN, DORIS.....	PROCUREMENT OF EMBRYONIC CELL LINES.....	3N01 CM22062-10	292,790
NORRIS, SHIRLEY.....	SUPPLY OF CANCER TISSUES.....	2N01 CP43260-04	173,251
RABIN, HARVEY.....	SUSPECTED ONCOGENIC VIRUSES IN NONHUMAN PRIMATES.....	3N01 CP53509-02	466,500
REIN, ALAN.....	STUDY OF CANCER OF THE BREAST.....	2N01 CP43249-04	506,507
SETHI, VIDYA S.....	COMPOUNDS FOR ANTIVIRAL AND ANTITUMOR ACTIVITY.....	3N01 CM33741-07	127,082
SIBINOVIC, KYLE H.....	STUDY PLASMA CELL TUMORS IN MICE.....	3N01 CB92142-18	360,706
SIBINOVIC, KYLE H.....	OPERATION OF ANIMAL DISEASE DIAGNOSTIC LABORATORY.....	5N01 CM53778-01	71,172
STEVENSON, ROBERT E.....	SUPPORT FOR CANCER RESEARCH CENTER.....	5N01 CO25423-30	36,876,082
TONDREAU, SUE C.....	MONITORING OF IMMUNOLOGIC COMPETENCE IN CANCER PATIENTS.....	1N01 CM67067-00	249,346
VALERIO, MARION G.....	STUDY OF CARCINOGENESIS IN HUMAN BRONCHIAL TISSUES.....	5N01 CP43274-05	161,396
WALLEN, WILLIAM.....	IMMUNE RESPONSE TO TUMOR ASSOCIATED ANTIGENS.....	3N01 CB53889-01	217,175
WALLEN, WILLIAM.....	IMMUNOLOGICAL ASSAY FOR DNA AND RNA VIRUS.....	3N01 CP43333-03	530,575
WU, ALAN M.....	DEVELOP NEW APPROACHES TO CANCER CHEMOTHERAPY.....	3N01 CM12340-14	1,711,204
WU, ALAN M.....	MOLECULAR TRANSFORMATION BY RNA ONCOGENIC VIRUSES.....	3N01 CP33211-08	125,204
WU, ALAN M.....	MOLECULAR TRANSFORMATION BY RNA ONCOGENIC VIRUSES.....	9N01 CP61029-00	409,554
ORGANIZATION TOTAL	32	49,537,097	

## LAUREL

### PHARMACOPATHICS RESEARCH LABORATORIES ZIP CODE 20810

TEGERIS, ANDREW S.....	MAINTAIN ANIMAL HOLDING FACILITY/PROVIDE RESEARCH SERV.....	2N01 CB33887-04	142,339
ORGANIZATION TOTAL	1	142,339	

## POTOMAC

### RESEARCH APPLICATIONS, INC. ZIP CODE 20854

FRIEDMAN, DAVID.....	DEVELOP & TEST INSTRUCTIONAL MATERIAL TO DETECT DIABETES.....	1N01 LM64725-00	9,117
ORGANIZATION TOTAL	1	9,117	

## ROCKVILLE

### AMERICAN FOUNDATION FOR BIOLOGICAL RESEARCH-BIOMEDICAL RESEARCH INSTITUTE ZIP CODE 20852

PERRY, VERNON P.....	FREEZE-DRYING OF TYPING SERA.....	2N01 AI32508-08	123,129
ORGANIZATION TOTAL	1	123,129	

### AMERICAN TYPE CULTURE COLLECTION ZIP CODE 20852

DONOVICK, RICHARD.....	COLLECTION OF LIVING REFERENCE STRAINS.....	2N01 RR42158-03	510,885
HAY, ROBERT J.....	CELLS FROM DUCTAL AND EXOCRINE PORTION OF THE PANCREAS.....	1N01 CP65751-00	71,244
HAY, ROBERT J.....	DEVELOP CELL STRAINS FROM HUMAN AND GUINEA PIG LUNGS.....	1N01 HR62914-00	62,500
HAY, ROBERT J.....	LUNG CELL RESOURCE FACILITY.....	1N01 HR62930-00	125,780



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>				
KERN, JEROME.....		PRESERVE & DEVELOP REFERENCE-GRADE TUMOR VIRUSES.....	1N01 CP61047-00	78,150
STEVENS, DAVID A.....		PROCESSING OF RESEARCH REAGENTS.....	3N01 A42515-03	52,389
ORGANIZATION TOTAL	6	900,948		
<b>BIOSPHERICS, INC. ZIP CODE 20852</b>				
BARRETT, JEANNE.....		CANCER RELATED PUBLIC INQUIRIES TECH. WRITING SERVICES.....	3N01 C045419-03	51,543
LEVIN, M K.....		INFORMATION SERVICES FOR CANCER RELATED INQUIRIES.....	1N01 C065329-00	1,184,359
ORGANIZATION TOTAL	2	1,235,902		
<b>BIOTECH RESEARCH LABORATORIES ZIP CODE 20852</b>				
SUN, CECILY R.....		CYTOGENETIC EVALUATION OF HIGH RISK CANCER FAMILIES.....	1N01 CP61011-00	148,778
TING, ROBERT C.....		SCREENING FOR ANTIONCOGENIC VIRUS PROPERTIES.....	1N01 CM67052-00	199,796
TING, ROBERT C.....		IN VITRO TRANSFORMATION BY VIRUSES AND CARCINOGENS.....	2N01 CP55640-01	128,671
ORGANIZATION TOTAL	3	477,245		
<b>CAPITAL SYSTEMS GROUP ZIP CODE 20852</b>				
BOOTH, JAMES M.....		SERVICES FOR THE NATIONAL COMMISSION ON ARTHRITIS.....	3N01 AM52225-01	242,921
SPARGUR, JON.....		STATISTICAL SERVICES.....	2N01 CB43913-03	196,792
ORGANIZATION TOTAL	2	439,713		
<b>CONTROL DATA CORPORATION ZIP CODE 20852</b>				
JOHNSON, JAMES H.....		PROCESSING OF CLINICAL PATIENT RESEARCH DATA.....	1N01 CM67107-00	50,000
ORGANIZATION TOTAL	1	50,000		
<b>COR BEL LABORATORIES ZIP CODE 20852</b>				
ALLCOCK, NELSON R.....		SUPPORT FOR ANIMAL CARE FACILITY.....	3N01 NS32301-04	74,133
RICKMAN, WILLIAM M, JR.....		MAINTAIN AN ANIMAL HOLDING FACILITY.....	1N01 CB64024-00	110,213
ORGANIZATION TOTAL	2	184,346		
<b>E &amp; G, INC.—MASON RESEARCH INSTITUTE ZIP CODE 20852</b>				
TIDWELL, DALTON.....		DATA-PROCESSING SERVICES FOR CANCER BIOASSAY SYSTEM.....	2N01 CP43257-15	501,208
ORGANIZATION TOTAL	1	501,208		
<b>ENVIRO CONTROL ZIP CODE 20852</b>				
FENSTERSTOCK, J C.....		SERVICES TO THE DIET, NUTRITION AND CANCER PROGRAM.....	1N01 CP65759-00	344,770
HAYWARD, A E.....		SMOKING AND HEALTH PRIME CONTRACT.....	5N01 CP55666-06	6,548,124
MC KINNEY, R W.....		MONITORING OF BIOHAZARD CONTAINMENT FACILITIES.....	1N01 CP61021-00	233,000
SPREY, P M.....		SUPPORT SERVICES FOR CONFERENCES AND WORKSHOPS.....	3N01 H042936-04	41,000
ORGANIZATION TOTAL	4	7,166,894		
<b>FLOW LABORATORIES ZIP CODE 20852</b>				
ADKINS, HARRY F.....		REPOSITORY FOR PROCESSING LEUKOCYTE-TYPING SERA.....	2N01 A122515-11	387,927
ADKINS, HARRY F.....		FACILITY FOR STORAGE AND DISTRIBUTION OF CLINICAL DRUGS.....	1N01 CM67088-00	136,734
ADKINS, HARRY F.....		LOW TEMPERATURE REPOSITORY AND CELL LINES.....	3N01 CP33201-05	16,442
ADKINS, HARRY F.....		LOW TEMPERATURE REPOSITORY OF HUMAN TUMOR CELLS.....	9N01 CP61000-00	311,716
GILDEN, RAYMOND V.....		MAINTENANCE OF ANIMAL-BREEDING COLONY.....	2N01 A181406-14	149,967
GILDEN, RAYMOND V.....		HERPES VIRUSES IN RELATION TO ONCOGENIC POTENTIAL.....	3N01 CP12097-11	46,953
GILDEN, RAYMOND V.....		TYPE C VIRUSES AND HERPES VIRUSES STUDY.....	3N01 CP33247-06	219,894
GILDEN, RAYMOND V.....		VIRUS AND REAGENT PRODUCTION AND PURIFICATION.....	3N01 CP43387-01	25,710
GILDEN, RAYMOND V.....		VIRUS AND REAGENT PRODUCTION AND PURIFICATION.....	3N01 CP53528-02	66,213
GILDEN, RAYMOND V.....		STUDIES ON HERPES VIRUSES.....	3N01 CP53529-02	43,816
GILDEN, RAYMOND V.....		STUDIES ON TYPE-C VIRUSES WITH ONCOGENIC POTENTIAL.....	3N01 CP53530-02	196,729
GILDEN, RAYMOND V.....		COMPLETION OF RESEARCH AND VIRUS PRODUCTION ACTIVITIES.....	9N01 CP61012-00	1,502,184
HAUGHOM, JOAN R.....		GROWTH OF HUMAN TROPHOBLAST CELLS IN CULTURE.....	3N01 HD12133-10	20,000
HAUGHOM, JOAN R.....		GROWTH OF HUMAN TROPHOBLASTIC CELLS IN CULTURE.....	1N01 HD62864-00	66,260
KNAPP, WILLIAM A, JR.....		SUPPORT FOR ANIMAL CARE FACILITY.....	3N01 CP12341-03	4,517

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
TORGENSEN, JUDITH.....	SUPPORT FOR ANIMAL CARE FACILITY.....	3N01 CP33391-04	27,929
TORGENSEN, JUDITH.....	ANIMAL FACILITY TO SUPPORT RESEARCH ON RNA VIRUSES.....	2N01 CP53566-01	179,529
ORGANIZATION TOTAL	17 3,402,520		
<b>FLOW LABORATORIES—FLOW RESEARCH INSTITUTE ZIP CODE 20852</b>			
POTASH, LOUIS.....	SUPPORT FOR VIRUS AND TISSUE-CULTURE LABORATORIES.....	3N01 AI32521-06	355,173
ORGANIZATION TOTAL	1 355,173		
<b>HEM RESEARCH, INC. ZIP CODE 20852</b>			
WHITMAN, JAMES E.....	SUPPLY PRIMATE RNA TUMOR VIRUSES & VIRUS-INFECTED CELLS.....	1N01 CM67066-00	113,357
ORGANIZATION TOTAL	1 113,357		
<b>INFORMATICS, INC. ZIP CODE 20852</b>			
WOLFE, MOLLY A.....	REGISTRIES OF HUMAN CLINICAL PROTOCOLS IN CANCER THERAPY.....	2N01 CB53888-01	89,544
ORGANIZATION TOTAL	1 89,544		
<b>SIGMA DATA COMPUTING CORPORATION ZIP CODE 20852</b>			
SCHEER, JEROME D.....	PROGRAMMING IN SUPPORT OF CONTRACT MANAGEMENT SYSTEM.....	3N01 CQ55203-01	109,052
ORGANIZATION TOTAL	1 109,052		
<b>TRACOR, INC.—TRACOR JITCO ZIP CODE 20852</b>			
NOT APPLICABLE.....	CATALOGING BACKLOG AT NLM.....	1N01 LM64738-00	35,507
QUIMBY, FREEMAN H.....	RESEARCH RESOURCES INFORMATION CENTER.....	1N01 RR62155-00	198,166
WESSELL, CARL.....	BIOASSAY PRIME CONTRACT.....	5N01 CP43350-13	9,602,907
ORGANIZATION TOTAL	3 9,836,580		
<b>WESTAT RESEARCH, INC ZIP CODE 20852</b>			
BRYANT, E.....	DATA ON HIRING NEW BIOMEDICAL SCIENTISTS.....	3N01 OD52107-05	165,261
BURGDORF, KENNETH.....	DESIGN & TEST INSTRUCTIONAL MATERIAL TO DETECT DIABETES.....	1N01 CM65320-00	42,097
MAFFEO, CARLA E.....	INCIDENCE, PREVALENCE & COSTS OF INTRACRANIAL NEOPLASMS.....	2N01 NS42336-04	62,431
ROBINS, MORTON.....	PREPARE & DELIVER VARIOUS CELL CULTURES.....	1N01 NS62333-00	460,565
TOLEDO, ANNE.....	SUPPORT SERVICES FOR FIELD STUDIES.....	1N01 CP61034-00	380,665
ORGANIZATION TOTAL	5 1,111,019		
<b>SILVER SPRING</b>			
<b>APPLIED MANAGEMENT SCIENCES ZIP CODE 20910</b>			
BLOOM, MARTIN V.....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	5N01 CN55069-02	102,305
FRANKEL, STEVEN.....	DESIGN & TEST INSTRUCTIONAL MATERIAL TO DETECT DIABETES.....	1N01 LM64732-00	21,767
NOT APPLICABLE.....	ABSTRACTING AUDIOVISUAL MATERIAL FOR AVLINE.....	1N01 LM64702-00	61,837
SANDLER, JERRY.....	DEVELOP BIOMEDICAL COMMUNICATIONS EXPERIMENT USING CTS.....	1N01 LM64729-00	39,843
VIGNONE, JOSEPH A.....	SYSTEM FOR WRITING ABSTRACTS FOR AUDIOVISUAL MATERIALS.....	3N01 LM44736-04	500
ORGANIZATION TOTAL	5 226,252		
<b>AUTOMATION INDUSTRIES—VITRO LABORATORIES ZIP CODE 20906</b>			
CRAIN, ROBERT D.....	SERVICES FOR THE CANCER CHEMOTHERAPY PROGRAM.....	3N01 CM33717-07	22,359
ORGANIZATION TOTAL	1 22,359		
<b>MESSER ASSOCIATES ZIP CODE 20910</b>			
LAZEROW, F.....	ESTABLISHING PERSONNEL REQUIREMENTS IN CANCER CONTROL.....	1N01 CM65192-00	184,850
ORGANIZATION TOTAL	1 184,850		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MARYLAND—Continued</b>			
<b>SUITLAND</b>			
U.S. GENERAL SERVICES ADMINISTRATION—WASHINGTON NATIONAL RECORDS CENTER		ZIP CODE 20023	
TO BE APPOINTED .....	PREPARE MICROFICHE COPIES OF VOL. I-VI-PHS 149 SERIES .....	1N01 CP65733-00	3,111
ORGANIZATION TOTAL	1 3,111		
<b>TOWSON</b>			
DECTOR, DICKINSON AND COMPANY—HUNTINGDON RESEARCH CENTER		ZIP CODE 21204	
WILSNACK, ROGER E. ....	PREPARATION OF ANTISERA TO ONCOGENIC VIRAL ANTIGENS .....	2N01 CP33223-05	354,959
WILSNACK, ROGER E. ....	ANTIBODY IDENTIFICATION OF CARIOGENIC S. MUTANS .....	3N01 DE22409-03	5,984
ORGANIZATION TOTAL	2 360,943		
GREATER BALTIMORE MEDICAL CENTER		ZIP CODE 21204	
PROUT, THADDEUS E. ....	ASPIRIN-MYOCARDIAL INFARCTION STUDY .....	5N01 HV52932-02	44,000
ORGANIZATION TOTAL	1 44,000		
STATE TOTAL	185 103,464,903		
<b>MASSACHUSETTS</b>			
<b>AMHERST</b>			
CARKHUFF ASSOCIATES		ZIP CODE 01002	
CARKHUFF, ROBERT R. ....	VIDEOTAPE TECHNOLOGY .....	1N01 LM64746-00	108,946
ORGANIZATION TOTAL	1 108,946		
<b>BEDFORD</b>			
E & G & G, INC.		ZIP CODE 01730	
LISIECKI, EDWIN .....	CLINICAL DATA RETRIEVAL SERVICES .....	1N01 CM67011-00	189,956
ORGANIZATION TOTAL	1 189,956		
MITRE CORPORATION		ZIP CODE 01730	
SHARPE, EDWARD G. ....	TECHNICAL SUPPORT OF A SYSTEMS PLANNING BRANCH .....	5N01 C055421-03	301,740
SHARPE, EDWARD G. ....	SUPPORT OF OFFICE OF CANCER COMMUNICATIONS .....	5N01 C055424-03	279,282
ORGANIZATION TOTAL	2 581,022		
<b>BOSTON</b>			
AFFILIATED HOSPITALS CENTER—PETER BENT BRIGHAM HOSPITAL		ZIP CODE 02115	
CARPENTER, CHARLES B. ....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION .....	2N01 A142552-02	89,135
GATES, CHRISTOPHER C. ....	PSYCHOLOGICAL ASPECTS OF BREAST CANCER .....	1N01 CM65311-00	265,434
ORGANIZATION TOTAL	2 354,569		
AFFILIATED HOSPITALS CENTER—ROBERT BRECK BRIGHAM HOSPITAL		ZIP CODE 02120	
CHURCHILL, W HOLLOWELL .....	TUMOR IMMUNITY AND IMMUNOTHERAPY OF RAT MAMMARY TUMOR .....	2N01 CB33896-05	109,300
CHURCHILL, W HOLLOWELL .....	CELLS INVOLVED IN THE IMMUNE RESPONSE TO TUMORS .....	1N01 CB64036-00	61,250
DAVID, JOHN R .....	QUANTITATIVE ASSAYS OF MONOCYTE-MACROPHAGE FUNCTION .....	2N01 CB53869-01	110,000
PIESSENS, WILLY F .....	ACTIVATED MACROPHAGES AS IMMUNOTHERAPEUTIC AGENTS .....	1N01 CB64057-00	47,399
SCHUR, PETER H .....	STUDY OF TUMOR-ASSOCIATED ANTIGENS OF THE GI TRACT .....	2N01 CB43958-03	59,424
ORGANIZATION TOTAL	5 387,373		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>BETH ISRAEL HOSPITAL      ZIP CODE 02215</b>			
FREEDBERG, IRWIN M.....	RESPONSE TO THERAPY OF CUTANEOUS HERPES SIMPLEX.....	5N01 AI52530-01	109,965
FRIEDMAN, EMANUEL A.....	TIME-TREND ANALYSIS OF DATA RELATED TO PREGNANCY OUTCOME.....	3N01 NS32320-02	23,492
ORGANIZATION TOTAL      2	133,457		
<b>BOSTON HEALTH AND HOSPITALS DEPARTMENT      ZIP CODE 02118</b>			
KASS, EDWARD H.....	EFFECTS OF ORAL CONTRACEPTIVES ON BLOOD PRESSURE.....	5N01 HD52832-03	169,182
KASS, EDWARD H.....	STUDY OF PREVALENCE OF RESPIRATORY DISEASES.....	2N01 HR32906-03	212,610
KASS, EDWARD H.....	STUDY OF HYPERTENSION IN THERAPY.....	2N01 HV12433-07	503,236
KLEIN, JEROME O.....	VACCINE FOR PREVENTION OF OTITIS MEDIA.....	2N01 AI52536-01	138,999
TAGER, IRA.....	STUDY OF IMMUNOGENETIC FACTORS.....	3N01 HR22944-04	11,220
VOKONAS, PANTEL S.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52937-03	133,759
ORGANIZATION TOTAL      6	1,169,006		
<b>BOSTON HEALTH AND HOSPITALS DEPARTMENT—BOSTON CITY HOSPITAL      ZIP CODE 02118</b>			
SARAVIS, CALVIN A.....	HUMAN OR ORGAN-ASSOCIATED ANTIGEN DIAGNOSTIC APPLICATION.....	1N01 CB64071-00	129,471
SARAVIS, CALVIN A.....	DETECTION OF CARCINOEMBRYONIC ANTIGENS IN HUMANS.....	2N01 CP33264-03	57,512
ORGANIZATION TOTAL      2	186,983		
<b>BOSTON UNIVERSITY      ZIP CODE 02215</b>			
ALBERT, ARTHUR E.....	DETERMINE OPTIMAL FREQUENCY OF SCREENING STRATEGIES.....	5N01 CB53863-02	121,000
CONWAY, MARY E.....	ENTEROSTOMAL THERAPY EDUCATION PROGRAM.....	5N01 CN45112-03	93,875
DAWBER, THOMAS R.....	REEXAMINATION OF FRAMINGHAM HEART STUDY COHORT.....	5N01 HV52971-01	285,196
DECKERS, PETER J.....	TUMOR SPECIFIC IMMUNOTHERAPY WITH RNA.....	2N01 CB43949-02	9,297
FELDMAN, ROBERT G.....	MODEL COMPREHENSIVE STROKE CENTER PROGRAM.....	1N01 NS62349-00	50,662
FRANZBLAU, CARL.....	SEPARATION AND CHARACTERIZATION OF LUNG ELASTIN.....	3N01 HR42934-02	12,590
GENSLER, WALTER J.....	SYNTHESIS OF CORD FACTOR-LIKE COMPONENTS.....	1N01 CP65783-00	73,219
GOULD, JEFFREY B.....	STUDY OF MONOZYGOUS AND DIZYGOS TWINS.....	3N01 HD32789-04	229,357
JICK, HERSEL.....	COLLABORATIVE DRUG SURVEILLANCE PROGRAM.....	2N01 GM42148-08	161,665
LOWENSTEIN, LEAH M.....	LIPID ABNORM. & ATHEROGENESIS IN CHRONIC RENAL FAILURE.....	2N01 AM42212-03	84,021
POCHI, PETER E.....	STEROID HORMONES ON SEBACEOUS SECRETION & ACNE DEVEL.....	3N01 HD42863-01	120,792
ROWE, ELEANOR L.....	ONCOLOGY NURSING PROGRAMS IN CANCER CENTERS.....	5N01 CN55142-01	265,905
SLONE, DENNIS.....	MYOCARDIAL INFARCTION AND ROLE OF ORAL CONTRACEPTIVES.....	1N01 HD62849-00	301,300
SLONE, DENNIS.....	MATERNAL DRUG INGESTION AND FETAL ABNORMALITIES.....	3N01 NS23222-06	3,000
SNIDER, GORDON L.....	ESTABLISHMENT OF AN ANIMAL MODEL OF PULMONARY FIBROSIS.....	5N01 HR53011-01	167,365
SWAZEY, JUDITH P.....	CATEGORICAL RESEARCH TO BASIC SCIENCE RESEARCH-KNOWLEDGE.....	3N01 CO55315-02	2,167
ORGANIZATION TOTAL      16	1,981,411		
<b>CENTER FOR BLOOD RESEARCH      ZIP CODE 02115</b>			
PENNELL, ROBERT B.....	PREPARATION OF INTRAVENOUS IGG.....	3N01 HB32940-03	227,075
PENNELL, ROBERT B.....	STUDY OF PLASMA FRACTIONATION.....	2N01 HB32968-05	355,984
ORGANIZATION TOTAL      2	583,059		
<b>CHILDREN'S HOSPITAL MEDICAL CENTER      ZIP CODE 02115</b>			
BERNHARD, WILLIAM F.....	CLINICAL EVALUATION OF LEFT VENTRICULAR ASSIST DEVICE.....	2N01 HV53007-02	103,991
COLTEN, HARVEY R.....	CARCINOGENS ON THE SYNTHESIS OF COMPLEMENT COMPONENTS.....	2N01 CP45612-02	78,902
FILLER, ROBERT.....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY.....	1N01 CP65826-00	105,194
KEYV, SHERWIN V.....	PLASTIC DEVICES AND BLOOD CONTACT TOXICITY STUDIES.....	2N01 HB52906-01	23,693
NATHAN, DAVID G.....	SICKLING AND HOST RESISTANCE TO INFECTION.....	2N01 HB42973-02	64,247
SMITH, DAVID H.....	HEMOPHILUS INFLUENZAE TYPE B VACCINE.....	2N01 AI42550-03	147,412
VAWTER, GORDON F.....	SUPPLY OF PEDIATRIC ONCOLOGY SPECIMENS.....	1N01 CP61036-00	25,240
ORGANIZATION TOTAL      7	548,679		
<b>FORSYTH DENTAL CENTER      ZIP CODE 02115</b>			
DE PAOLA, PAUL F.....	COMMUNITY CARIES PREVENTIVE DEMONSTRATION PROGRAM.....	3N01 DE52461-04	41,439
TAUBMAN, MARTIN A.....	EXPERIMENTALLY INDUCED DENTAL CARIES IN RODENTS.....	5N01 DE42438-04	117,870



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
ORGANIZATION TOTAL	2	159,309	
<b>HARVARD UNIVERSITY ZIP CODE 02138</b>			
ADAMS, RAYMOND D.....	CYTOMYELO AND DENDRITIC ARCHITECTURE OF MONKEY BRAIN.....	2N01 NS60940-16	57,467
AMOS, HAROLD.....	ANTITUMOR EFFECTS OF NATURALLY OCCURRING SUGARS.....	2N01 CM53825-01	56,570
BENJAMIN, THOMAS L.....	GENETIC AND BIOCHEMICAL STUDY OF CELLS AND VIRUSES.....	2N01 CP43299-05	115,000
DOGON, I LEON.....	COMMUNITY CARES PREVENTION DEMONSTRATION PROJECT.....	3N01 DE52475-02	43,284
ESSEX, MYRON E.....	IMMUNOTHERAPY IN OUTBRED LYMPHOMA AND LEUKEMIAS.....	1N01 CB64001-00	64,183
GEYER, ROBERT P.....	SYNTHESIS AND SCREENING OF ARTIFICIAL BLOOD SUBSTITUTES.....	1N01 HB62926-00	142,684
JONES, T C.....	STUDY OF ONCOGENIC HERPES VIRUSES.....	2N01 CP33390-05	92,000
LITTLE, JOHN B.....	STUDY OF RESPIRATORY CARCINOGENESIS.....	3N01 CP33273-03	161,542
LOWRIE, EDMUND G.....	NATIONAL COOPERATIVE DIALYSIS STUDY.....	1N01 AM62207-00	1,362,961
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM SERVICES.....	5N01 LM54724-02	357,912
ROTHMAN, KENNETH J.....	EVALUATING EFFECT OF ANTIFERTILITY AGENTS.....	5N01 HD52801-01	135,829
SALHANICK, HILTON A.....	PROCEDURES FOR INHIBITORS OF PROGESTERONE SYNTHESIS.....	3N01 HD02319-06	109,912
SHULMAN, LEONARD B.....	A STUDY OF ARTIFICIAL TEETH.....	3N01 DE32422-02	10,620
ORGANIZATION TOTAL	13	2,709,964	
<b>JOSLIN DIABETES FOUNDATION ZIP CODE 02215</b>			
BRADLEY, ROBERT F.....	DIABETIC RETINOPATHY—CLINICAL CENTER.....	5N01 EY42170-02	171,116
ORGANIZATION TOTAL	1	171,116	
<b>MASSACHUSETTS EYE AND EAR INFIRMARY ZIP CODE 02114</b>			
MC MEEL, J WALLACE.....	DIABETIC RETINOPATHY STUDY.....	5N01 EY42172-02	123,676
ORGANIZATION TOTAL	1	123,676	
<b>MASSACHUSETTS GENERAL HOSPITAL ZIP CODE 02114</b>			
ALPERT, ELLIOT.....	STUDY OF TUMOR-ASSOCIATED ANTIGENS OF THE GI TRACT.....	2N01 CB43889-02	64,371
BLACK, PAUL H.....	STUDY OF ACTIVATION OF ONCOGENIC VIRUSES.....	2N01 CP43222-03	330,259
CORREIA, JOHN A.....	COMPUTERIZED TRANSAXIAL NUCLIDE RECONSTRUCTION.....	2N01 CB53913-01	72,164
KAPLAN, EDWARD M.....	DATA COORDINATING CENTER FOR ANGINA PECTORIS STUDY.....	5N01 HV53027-03	62,539
MUNDTH, ELDRED D.....	STUDY OF CORONARY ARTERY SURGERY.....	3N01 HV32985-07	32,937
NEW, PAUL J.....	CLINICAL EVAL. OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY.....	3N01 CB43983-03	220,434
POSKANZER, DAVID C.....	STUDY OF MULTIPLE SCLEROSIS IN SCOTLAND.....	3N01 NS42321-02	65,896
ROBINSON, DWIGHT R.....	ROLE OF PROSTAGLANDINS IN MAMMARY GLAND NEOPLASIA.....	3N01 CB33918-04	9,200
SCHLESINGER, DAVID H.....	PREPARE, ANALYZE CELL SURFACE PROTEIN (CSP) FRACTIONS.....	1N01 CB64079-00	57,480
ZAMECNIK, PAUL C.....	STUDY OF NUCLEIC ACIDS OF THE AVIAN MYELOBLASTOSIS VIRUS.....	3N01 CP33366-03	35,100
ORGANIZATION TOTAL	10	950,380	
<b>NEW ENGLAND DEACONESS HOSPITAL ZIP CODE 02215</b>			
BLACKBURN, GEORGE L.....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY.....	1N01 CP65870-00	115,193
ORGANIZATION TOTAL	1	115,193	
<b>NEW ENGLAND MEDICAL CENTER HOSPITAL ZIP CODE 02111</b>			
BOREL, YVES R.....	STUDY OF STIMULATION OF IMMUNOLOGIC RESPONSES.....	2N01 CB43970-02	70,500
MARCHANT, DOUGLAS.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45054-04	300,000
RUDDERS, RICHARD A.....	CLASSIFICATION OF NONHODGKIN'S LYMPHOMAS.....	1N01 CM67112-00	23,542
SCHWARTZ, ROBERT S.....	IMMUNOLOGY OF MURINE LEUKEMIA VIRUS INFECTION.....	1N01 CP61046-00	62,488
WALLACH, DONALD F.....	ORGANIZ. & DYNAMICS OF CELL SURFACE MEMBRANE COMPONENTS.....	2N01 CB44000-02	89,073
ORGANIZATION TOTAL	5	545,603	
<b>NORTHEASTERN UNIVERSITY ZIP CODE 02115</b>			
SOLOWAY, ALBERT H.....	SYNTHESIS OF CNS ANTITUMOR AGENTS.....	5N01 CM53741-01	58,968
ORGANIZATION TOTAL	1	58,968	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>SIDNEY FARDER CANCER INSTITUTE      ZIP CODE 02115</b>			
CHESS, LEONARD .....	ISOLATION OF PERIPHERAL BLOOD MONONUCLEAR CELLS .....	2N01 CB43964-02	77,057
CHESS, LEONARD .....	IN VITRO SENSITIZATION OF HUMAN LYMPHOCYTES .....	2N01 CB53881-01	60,301
FOLEY, GEORGE E .....	ISOLATING TYPE C VIRUS FROM CULTURED HUMAN LEUKEMIC CELL .....	2N01 CP53539-01	141,750
FRECHETTE, ALFRED L .....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK .....	3N01 CN55229-02	75,447
FREI, EMIL, III .....	PHASE I STUDIES OF NEW ANTICANCER AGENTS .....	2N01 CM53839-05	42,128
FREI, EMIL, III .....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA .....	5N01 CM57035-02	135,132
FREI, EMIL, III .....	STUDIES OF PATIENTS WITH DISSEMINATED SOLID TUMORS .....	1N01 CM67037-00	373,153
WEINER, ROY S .....	IMPROVEMENT OF ASSAYS FOR CELL-MEDIATED IMMUNITY .....	2N01 CB43885-02	64,617
ORGANIZATION TOTAL	8      969,585		
<b>TUFTS UNIVERSITY      ZIP CODE 02111</b>			
BLAIR, HENRY E .....	PREPARE GLUCOCEREBROSIDASE FROM HUMAN PLACENTAL TISSUE .....	2N01 NS52321-03	50,000
STOLBACH, LEO L .....	IMMUNODIAGNOSIS FOR EARLY DETECTION OF OVARIAN CANCER .....	1N01 CB64028-00	190,992
ORGANIZATION TOTAL	2      240,992		
<b>UNIVERSITY HOSPITAL      ZIP CODE 02118</b>			
BLACKLOW, NEIL R .....	STUDY OF AGENTS OF ACUTE NONBACTERIAL GASTROENTERITIS .....	2N01 AI32505-04	25,308
RYAN, THOMAS J .....	COLLABORATIVE STUDIES IN CORONARY ARTERY SURGERY .....	1N01 HV62923-00	124,560
STEEFFE, WILLIAM .....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY .....	1N01 CP65869-00	82,077
STEEFFE, WILLIAM .....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY .....	1N01 CP65872-00	82,827
ORGANIZATION TOTAL	4      314,772		
<b>BURLINGTON</b>			
<b>DIAGNOSTIC ELECTRONICS CORPORATION      ZIP CODE 01803</b>			
WILLIAMS, JAMES B .....	HIGH RESOLUTION ULTRASONIC IMAGING SYSTEM .....	5N01 HV52967-02	81,530
ORGANIZATION TOTAL	1      81,530		
<b>CAMBRIDGE</b>			
<b>ABT ASSOCIATES, INC.      ZIP CODE 02138</b>			
VANDERSCHMIDT, G FREDRICK .....	MEASUREMENT OF THE COST OF CANCER CARE .....	1N01 CN65216-00	580,686
ORGANIZATION TOTAL	1      580,686		
<b>AMERICAN SCIENCE AND ENGINEERING      ZIP CODE 02139</b>			
STEIN, JAY A .....	COMPUTERIZED TRANSAXIAL X-RAY RECONSTRUCTION .....	5N01 CB53858-01	879,223
ORGANIZATION TOTAL	1      879,223		
<b>ARTHUR D. LITTLE, INC.      ZIP CODE 02140</b>			
BROOME, MILDRED G .....	SCREENING OF NEW MATERIALS FOR CYTOTOXICITY .....	1N01 CM67078-00	210,267
KETTERINGHAM, JOHN M .....	PREPARATION OF POLYALKYLSULFONE HOMO- AND CO-POLYMERS .....	2N01 HV32916-04	109,160
MERKER, PHILIP .....	EVALUATION OF COMBINED CHEMOTHERAPY AND MODALITY STUDIES .....	5N01 CM53765-01	820,809
ROHOVSKY, MICHAEL W .....	CHEMOTHERAPY OF CENTRAL NERVOUS SYSTEM SOLID TUMORS .....	1N01 CM67047-00	118,916
SIVAK, ANDREW .....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS .....	5N01 CP55711-01	218,969
STONE, SANDRA H .....	COORDINATED PROGRAM IN CANCER CHEMOTHERAPY .....	2N01 CM33727-09	182,321
WECHSLER, ALFRED E .....	BIOMEDICAL ENGINEERING .....	1N01 CM63823-00	593,200
WODINSKY, I .....	PRIMARY IN VIVO SCREENING FOR ANTICANCER ACTIVITY .....	5N01 CM57006-03	25,000
WOLFE, HARRY B .....	CONSTRAINTS ON BED UTILIZATION AT THE CLINICAL CENTER .....	1N01 CL62106-00	68,228
YESAIR, DAVID W .....	PHARMACOLOGY AND TUMOR BANK .....	5N01 CM53849-01	1,228,108
YESAIR, DAVID W .....	FORMULATIONS TO IMPROVE EFFICACY OF NATURAL STEROIDS .....	1N01 HD62847-00	217,978
ORGANIZATION TOTAL	11      3,792,956		
<b>BOLT BERANEK AND NEWMAN      ZIP CODE 02138</b>			
BOLT, RICHARD .....	EVALUATE SCIENTIFIC MISSION OF DIV OF RESEARCH RESOURCES .....	1N01 RR62101-00	412,721

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
CASTLEMAN, PAUL A.....	DEVELOPMENT OF SOFTWARE FOR DATA-PROCESSING PROGRAMS.....	5N01 RR42147-08	1,398,993
KALIKOW, DANIEL N.....	INSTRUMENT FOR ASSESSING SPEECH DISCRIMINATION.....	3N01 NS42322-06	2,282
SWETS, JOHN A.....	EVALUATE IMAGING TECHNIQUES IN CANCER DIAGNOSIS.....	1N01 CB64010-00	263,853
ORGANIZATION TOTAL	4 2,077,849		
<b>CAMBRIDGE COLLABORATIVE ZIP CODE 02142</b>			
FREDBERG, J.....	MEASURE PULMONARY FUNCTION IN INFANTS AND CHILDREN.....	1N01 HR62901-00	118,130
ORGANIZATION TOTAL	1 118,130		
<b>HARVARD UNIVERSITY ZIP CODE 02138</b>			
CERNY, JAN.....	CELLS INVOLVED IN THE IMMUNE RESPONSE TO TUMORS.....	1N01 CB64035-00	67,000
LAWRENCE, PAUL R.....	A STUDY OF HOW THE NIH MANAGES RESEARCH.....	1N01 OD62109-00	55,714
ORGANIZATION TOTAL	2 122,714		
<b>JOHN C. SHEEHAN INSTITUTE FOR RESEARCH ZIP CODE 02138</b>			
PARS, HARRY G.....	SYNTHESIS OF RING-C AROMATIC STEROIDS.....	3N01 HD42831-03	23,571
ORGANIZATION TOTAL	1 23,571		
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY ZIP CODE 02139</b>			
BALTIMORE, DAVID.....	STUDIES OF LEUKEMIA VIRUS DNA POLYMERASE.....	2N01 CP53562-02	155,035
CATSIMPOOLAS, NICHOLAS.....	LYMPHOCYTES AND MACROPHAGES.....	2N01 CB43928-03	108,933
HECHT, SIDNEY M.....	SYNTHESIS OF BLEOMYCIN & STRUCTURAL MODIFICATIONS.....	5N01 CM43712-03	66,934
ROGERS, ADRIANNE E.....	DIET AND CHEMICAL CARCINOGENESIS STUDY.....	5N01 CP33238-04	167,834
TANNENBAUM, STEVEN.....	STUDY OF ENVIRONMENTAL OCCURRENCE OF N-NITROSO COMPOUNDS.....	3N01 CP33315-02	184,731
WOGAN, GERALD N.....	STUDY OF TOXICITY OF FUNGAL GROWTH ON FOODSTUFFS.....	5N01 CP43265-02	229,478
WORDEN, FREDERIC G.....	SUPPORT OF NEUROSCIENCES RESEARCH PROGRAM.....	1N01 NS62343-00	299,400
YANNAS, IOANNIS V.....	INTERACTION OF NATURAL & MODIFIED BIOPOLYMERS WITH BLOOD.....	2N01 HV42969-03	70,257
ORGANIZATION TOTAL	8 1,282,602		
<b>EVERETT</b>			
<b>AVCO CORPORATION—EVERETT RESEARCH LABORATORY ZIP CODE 02149</b>			
NYILAS, EMERY.....	DEVELOPMENT AND TESTING OF SPECIMENS.....	5N01 HV32917-04	68,500
NYILAS, EMERY.....	EVALUATION OF BIOMATERIALS IN CONTACT WITH BLOOD.....	2N01 HV42961-03	151,367
ORGANIZATION TOTAL	2 219,867		
<b>HUDSON</b>			
<b>RP INDUSTRIES ZIP CODE 01749</b>			
FLIET, HAROLD.....	ENVIRONMENTAL CONTROL SYSTEM.....	1N01 CO65297-00	28,600
ORGANIZATION TOTAL	1 28,600		
<b>METHUEN</b>			
<b>BON SECOURS HOSPITAL ZIP CODE 01844</b>			
EVJY, JACK T.....	CLINICAL ONCOLOGY PROGRAM.....	1N01 CN65198-00	71,688
ORGANIZATION TOTAL	1 71,688		
<b>NEWTON</b>			
<b>EIC CORPORATION ZIP CODE 02150</b>			
BRUMMER, S BARRY.....	STUDY OF ELECTRICAL STIMULATION OF THE NERVOUS SYSTEM.....	2N01 NS32313-06	85,574
ORGANIZATION TOTAL	1 85,574		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>SHREWSBURY</b>			
<b>WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY</b>		<b>ZIP CODE 01545</b>	
BRODIE, HARRY J.....	INHIBITORS TO ESTROGEN BIOSYNTHESIS.....	2N01 HD02158-09	50,810
DAVIS, BRIAN K.....	STUDY OF CONTROL OF SPERM-FERTILIZING CAPACITY.....	3N01 HD32781-05	20,700
FAIRBANKS, GRANT.....	CHARACTERIZATION OF MAMMARY EPITHELIAL CELL MEMBRANE.....	2N01 CB33908-03	50,000
MAUDSLEY, DAVID V.....	ROLE OF CYCLIC AMP IN MAMMARY GLAND NEOPLASIA.....	2N01 CB33919-05	52,600
WELSCH, FEDERICO.....	STUDY OF ESTROGEN-BINDING AND ESTROPHILE PROTEINS.....	2N01 CB43867-05	116,800
ORGANIZATION TOTAL	5	290,910	
<b>WALTHAM</b>			
<b>BRANDEIS UNIVERSITY</b>		<b>ZIP CODE 02154</b>	
STOUT, ROBERT.....	CELLS INVOLVED IN THE IMMUNE RESPONSE TO TUMORS.....	1N01 CB64034-00	31,161
VAN VUNAKIS, HELEN.....	PRODUCTION OF ANTIBODIES TO CHEMICAL CARCINOGENS.....	2N01 CP23243-04	138,507
ORGANIZATION TOTAL	2	169,668	
<b>COLLABORATIVE RESEARCH, INC.</b>		<b>ZIP CODE 02154</b>	
FRIEDMAN, ORRIE M.....	PREPARATION OF POLYMERIC MATERIALS.....	3N01 CM12326-06	16,270
FRIEDMAN, ORRIE M.....	STUDY OF ENZYMES AND PRODUCTION OF HOMOFOLIC ACID.....	2N01 CM60506-19	89,697
ORGANIZATION TOTAL	2	105,967	
<b>FIRST DATA CORPORATION</b>		<b>ZIP CODE 02154</b>	
FRIESEN, DAVID D.....	COMPUTER SYSTEM.....	3N01 RR22019-16	37,655
FRIESEN, DAVID D.....	COMPUTER FACILITY FOR CHEMICAL/BIOLOGICAL INFORMATION.....	1N01 RR62118-00	532,504
ORGANIZATION TOTAL	2	570,159	
<b>THERMO ELECTRON CORPORATION</b>		<b>ZIP CODE 02154</b>	
BORNHORST, WALTER J.....	IMPLANTABLE ARTIFICIAL HEART DEVICES.....	2N01 HV12065-13	295,765
BORNHORST, WALTER J.....	DEVELOPMENT OF FLOCKING MATERIALS.....	2N01 HV32915-09	178,447
FINE, DAVID.....	METHODS OF N-NITROSO COMPOUNDS.....	2N01 CP45623-04	92,980
FINE, DAVID.....	PRODUCTION AND DELIVERY OF THERMAL ENERGY ANALYZERS.....	3N01 CP55715-04	3,591
HAGEN, KENNETH G.....	DEVELOPMENT OF CIRCULATORY-DEVICE POWER SYSTEM.....	5N01 HV42909-02	679,466
HAGEN, KENNETH G.....	BLOOD PUMP STUDIES AS RESULT OF ENDOGENOUS HEAT RESEARCH.....	3N01 HV52909-01	331,140
HUFFMAN, FRED N.....	DEVELOPMENT OF CARDIAC-ASSIST DEVICES.....	3N01 HV42910-06	544,800
KEISER, JOHN M.....	LEFT VENTRICULAR ASSIST DEVICE: CLINICAL EVALUATION.....	2N01 HV53008-05	221,221
TO BE APPOINTED.....	PRODUCTION AND DELIVERY OF THREE HPLC INTERFACE SYSTEMS.....	1N01 CP65822-00	29,182
ORGANIZATION TOTAL	9	2,376,592	
<b>WHITTAKER CORPORATION-SPACE SCIENCES DIVISION</b>		<b>ZIP CODE 02154</b>	
AISENBERG, SOL.....	DEVELOPMENT OF AN IMPLANTABLE OXYGEN SENSOR.....	3N01 HR33003-04	171,670
CHABOT, R W.....	APPLICATION OF COATINGS TO SUBSTRATE MATERIALS.....	2N01 HV32919-07	67,913
ORGANIZATION TOTAL	2	239,583	
<b>WILMINGTON</b>			
<b>CHARLES RIVER BREEDING LABORATORIES</b>		<b>ZIP CODE 01887</b>	
FOSTER, HENRY L.....	SUPPORT FOR LONG-TERM RAT COLONY.....	2N01 AG32725-09	170,000
FOSTER, HENRY L.....	SUPPLY OF MICE.....	2N01 AG42811-07	113,110
FOSTER, HENRY L.....	OPERATION OF A GERM-FREE RODENT COLONY.....	5N01 CM53812-02	2,669,935
FOSTER, HENRY L.....	RODENT PRODUCTION CENTER IN MODIFIED ENVIRONMENT.....	5N01 CM53848-01	224,234
FOSTER, SUMNER.....	GNOTOBIOTE ORIGINATED RODENT PRODUCTION COLONY.....	2N01 CP55651-01	477,021
PUCAK, GEORGE J.....	FEASIBILITY OF DOMESTIC PRODUCTION OF RHESUS MONKEYS.....	9N01 RR62137-00	88,008
TO BE APPOINTED.....	INBRED STRAINS AND SELECTED HYBRID CROSSES IN RATS.....	1N01 AG62135-00	93,265
ORGANIZATION TOTAL	7	3,835,573	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MASSACHUSETTS—Continued</b>			
<b>DYMO GRAPHIC SYSTEMS, INC.</b>	<b>ZIP CODE 01887</b>		
RUSH, THOMAS.....	MAINTENANCE OF A PHOTON ZIP MODEL 901 SYSTEM.....	1N01 LM64700-00	90,850
ORGANIZATION TOTAL	1 90,850		
<b>KOCH INDUSTRIES-ABCOR, INC.</b>	<b>ZIP CODE 01887</b>		
MEIER, PETER M.....	ENHANCED CARIES PREVENTIVE EFFECTS OF FLUORIDE TABLETS.....	1N01 DE62485-00	103,763
NUWAYSER, ELIE S.....	DEVELOPMENT OF NEW STERILIZATION TECHNIQUES.....	2N01 HD12227-08	89,728
NUWAYSER, ELIE S.....	STUDY OF DELIVERY OF DRUGS TO THE CERVIX.....	5N01 HD32738-05	129,079
NUWAYSER, ELIE S.....	DEVELOPMENT OF MICROFABRIC SURFACES.....	2N01 HV12047-13	108,427
WILLIAMS, DAVID L.....	AEROSOL OF MICROCAPSULES FOR CARIOSTATIC AGENTS.....	5N01 DE52448-02	164,828
WILLIAMS, DAVID L.....	ENZYMATIC PREVENTION OF DENTAL PLAQUE FORMATION.....	1N01 DE62493-00	105,046
ORGANIZATION TOTAL	6 700,871		
<b>WORCESTER</b>			
<b>E G &amp; G, INC.—MASON RESEARCH CENTER</b>	<b>ZIP CODE 01608</b>		
BOGDEN, ARTHUR E.....	IMMUNOLOGICAL CHARACTERIZATION STUDIES.....	2N01 CB31146-33	176,769
BOGDEN, ARTHUR E.....	EVALUATION OF CANCER THERAPEUTIC AGENTS.....	2N01 CB43914-04	157,000
BOGDEN, ARTHUR E.....	DEVELOPMENT OF NEW IN VIVO TUMOR SYSTEMS.....	5N01 CM57030-01	155,488
GRALLA, EDWARD J.....	CHELATING AGENTS FOR THE TREATMENT OF COOLEY'S ANEMIA.....	5N01 AM52212-01	60,169
KRAMER, ANNE W.....	COMPUTING SERVICES IN CLINICAL AND DIAGNOSTIC TRIALS.....	2N01 CP53524-02	103,301
LISIECKI, EDWIN J.....	BIOLOGICAL RESOURCES MANAGEMENT INFORMATION SYSTEM.....	3N01 CP53531-01	292,849
NAQVI, REHAN H.....	EVALUATION OF ACTIVITY OF ANTIFERTILITY DRUGS & DEVICES.....	2N01 HD22746-12	583,488
RUD, ERIC.....	ROLE OF HORMONAL FACTORS ON MAMMARY TUMORS.....	9N01 CP61052-00	86,988
ORGANIZATION TOTAL	8 1,616,052		
<b>MEMORIAL HOSPITAL</b>	<b>ZIP CODE 01605</b>		
LEVINE, PETER H.....	STUDY OF FACTOR VIII INHIBITOR IN HEMOPHILIA.....	5N01 HB53019-02	15,123
ORGANIZATION TOTAL	1 15,123		
<b>UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL</b>	<b>ZIP CODE 01605</b>		
HUMPHREYS, ROBERT E.....	DIAGNOSIS OF HUMAN LEUKEMIAS.....	1N01 CB64072-00	77,330
ORGANIZATION TOTAL	1 77,330		
STATE TOTAL	175 32,037,687		
<b>MICHIGAN</b>			
<b>ANN ARBOR</b>			
<b>UNIVERSITY OF MICHIGAN</b>	<b>ZIP CODE 48104</b>		
BLANKESPOOR, HARVEY D.....	SUPPLY OF SCHISTOSOME-INFECTED ANIMALS.....	2N01 AI42504-03	131,585
BORER, ROBERT.....	NEONATAL RESPIRATORY INSUFFICIENCY—EDUCATIONAL PROGRAM.....	5N01 HR52960-01	233,883
BRADLEY, ROBERT M.....	STUDY HISTOLOGICAL DEVELOPMENT OF UPPER AIRWAY RECEPTORS.....	5N01 HD42868-02	30,336
FRETER, ROLF G.....	TESTING OF VECTOR-HOST SYSTEMS IN MAMMALS.....	1N01 AI62518-00	110,096
HIGUCHI, WILLIAM I.....	SYSTEMS APPROACH TO VAGINAL CONTRACEPTIVE DRUGS.....	5N01 HD32740-05	63,154
HISS, ROLAND.....	CONTINUING EDUCATION IN PULMONARY MEDICINE.....	1N01 HR62931-00	180,250
KAHN, RAYMOND H.....	ORGAN CULTURE DEVELOPMENT OF HUMAN AND ANIMAL PROSTATE.....	2N01 CP55720-01	69,146
KAHN, RAYMOND H.....	DEVELOP INTIMAL LININGS.....	5N01 HV12054-11	155,918
MC NAMARA, JAMES A, JR.....	MECHANISMS OF MUSCLE REATTACHMENT AND MIGRATION.....	5N01 DE52478-02	97,096
MONTO, ARNOLD S.....	EVALUATION OF OCCURRENCE OF INFLUENZA & VACCINE EFFICACY.....	1N01 AI62514-00	178,919
SCHULTZ, JEROME S.....	COMPATIBILITY OF MATERIALS IN CONTACT WITH BLOOD.....	2N01 HV42962-03	131,772
THREATT, BARBARA.....	EARLY DETECTION OF CANCER OF THE BREAST.....	2N01 CN45049-03	282,796
ORGANIZATION TOTAL	12 1,664,951		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MICHIGAN—Continued</b>			
<b>DETROIT</b>			
<b>ASH STEVENS, INC.</b>	<b>ZIP CODE 48202</b>		
ASH, ARTHUR B.....	PROVIDE AND OPERATE A SYNTHESIS LABORATORY.....	3N01 CM12314-05	2,816
ASH, ARTHUR B.....	RESYNTHESIS OF BULK CHEMICALS AND DRUGS.....	5N01 CM57012-02	221,120
ORGANIZATION TOTAL	2	223,936	
<b>HENRY FORD HOSPITAL</b>	<b>ZIP CODE 48202</b>		
COATES, E O, JR.....	NOCTURNAL OXYGEN THERAPY IN HYPOXIC LUNG DISEASE.....	1N01 HR62944-00	43,315
GOLDSTEIN, SIDNEY.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52925-02	95,259
ORGANIZATION TOTAL	2	138,574	
<b>MICHIGAN CANCER FOUNDATION</b>	<b>ZIP CODE 48201</b>		
ALBERT, SAMUEL.....	COLLECTION OF LARGE QUANTITIES OF HUMAN MILK.....	2N01 CP43391-02	70,000
BRENNAN, MICHAEL J.....	DETERMINE OPTIMAL FREQUENCY OF SCREENING STRATEGIES.....	5N01 CB53907-01	159,720
BRENNAN, MICHAEL J.....	A COMMUNITY BASED CANCER CONTROL PROGRAM.....	1N01 CN65252-00	1,516,200
BRENNAN, MICHAEL J.....	INELASTIC LASER LIGHT-SCATTERING STUDIES.....	3N01 CP33226-05	194,120
BRENNAN, MICHAEL J.....	SUPPORT FOR POPULATION-BASED CANCER REGISTRY.....	3N01 CP43264-03	197,802
BRENNAN, MICHAEL J.....	DETROIT SSMA POPULATION-BASED CANCER REGISTRY.....	9N01 CP61028-00	624,445
KESSEL DAVID.....	CHARACTERIZATION OF ANTITUMOR DRUGS.....	5N01 CM53789-01	111,992
RICH, MARVIN A.....	STUDY OF HIGH-RISK BREAST-CANCER FAMILIES.....	2N01 CP33347-07	347,356
ORGANIZATION TOTAL	8	3,221,635	
<b>NATIONAL ASSOCIATION FOR SICKLE CELL DISEASE</b>	<b>ZIP CODE 48235</b>		
WHITTEN, CHARLES F.....	SICKLE CELL EDUCATION PROGRAM.....	3N01 HB53032-02	24,709
ORGANIZATION TOTAL	1	24,709	
<b>WARNER-LAMBERT COMPANY—PARKE, DAVIS AND COMPANY</b>	<b>ZIP CODE 48232</b>		
DION, H W.....	SUPPLY OF NEW ANTINEOPLASTIC DRUGS.....	3N01 CM43754-05	838,235
ELSLAGER, EDWARD F.....	PREPARATION OF BULK CHEMICALS AND DRUGS.....	3N01 CM23708-08	503,986
ORGANIZATION TOTAL	2	1,342,221	
<b>WAYNE STATE UNIVERSITY</b>	<b>ZIP CODE 48202</b>		
BAKER, LAWRENCE H.....	STUDIES IN PATIENTS WITH DISSEMINATED SOLID TUMORS.....	1N01 CM67105-00	325,892
BLISS, LYNN S.....	PRESCHOOL SCREENING FOR IMPAIRED LANGUAGE DEVELOPMENT.....	1N01 NS62353-00	138,375
JANZEN, ERICA.....	ONCOLOGY NURSING PROGRAMS.....	5N01 CN55239-01	99,487
LUSHER, JEANNE M.....	COOPERATIVE STUDY OF FACTOR VIII IN HEMOPHILIA.....	3N01 HB53025-02	971
MARGHERIO, RAYMOND R.....	DIABETIC RETINOPATHY STUDY—CLINICAL CENTER.....	5N01 EY42171-02	114,810
MARGHERIO, RAYMOND R.....	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY62143-00	46,006
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM SERVICES.....	5N01 LM54715-01	187,723
PRASAD, ANANDA S.....	STUDY OF SICKLE CELL DISEASE.....	2N01 HB22918-05	176,000
ROSE, NOEL R.....	IMMUNOLOGIC STUDIES OF VASECTOMY.....	5N01 HD52841-01	20,650
ORGANIZATION TOTAL	9	1,109,914	
<b>EAST LANSING</b>			
<b>MICHIGAN STATE UNIVERSITY</b>	<b>ZIP CODE 48823</b>		
KALLEN, DAVID J.....	FACTORS INFLUENCING CONTRACEPTION IN UNMARRIED STUDENTS.....	5N01 HD52803-01	34,379
SWEENEY, CHARLES C.....	ISOLATE & EVALUATE PRODUCTS FROM PLASMA FRACTIONATION.....	5N01 HB42947-02	114,343
ORGANIZATION TOTAL	2	148,722	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MICHIGAN—Continued</b>			
<b>GRAND RAPIDS</b>			
<b>BUTTERWORTH HOSPITAL</b> <b>ZIP CODE 49503</b>			
MOORHEAD, EDWARD L. H. ....	CLINICAL ONCOLOGY PROGRAM .....	1N01 CM65290-00	74,959
ORGANIZATION TOTAL	1	74,959	
<b>KALAMAZOO</b>			
<b>UPJOHN COMPANY</b> <b>ZIP CODE 49002</b>			
BYFIELD, PATRICIA E. ....	SUBPOPULATION SPECIFIC ANTISERA .....	1N01 CB64027-00	10,139
NEIL, GARY L. ....	SUPPLY OF ANTINEOPLASTIC ANTIBIOTICS .....	5N01 CM43753-04	1,370,848
ORGANIZATION TOTAL	2	1,380,987	
<b>LANSING</b>			
<b>MICHIGAN DEPARTMENT OF PUBLIC HEALTH</b> <b>ZIP CODE 48906</b>			
ISBISTER, JOHN L. ....	STATE CERVICAL CANCER SCREENING PROGRAM .....	3N01 CM45076-03	339,577
MC CALL, KEITH B. ....	PREPARATION OF GAMMA GLOBULIN .....	3N01 HB32941-05	107,162
TOIVANEN, PAAVO. ....	TISSUE-CULTURE ASSAYS .....	2N01 CM33702-04	123,859
WILCOX, KENNETH R, JR. ....	IMPROVED METHOD FOR INACTIVATION OF RABIES VIRUS .....	2N01 AI12199-04	44,790
ORGANIZATION TOTAL	4	615,388	
<b>MIDLAND</b>			
<b>DOW CHEMICAL COMPANY</b> <b>ZIP CODE 48640</b>			
BARKLEY, EMMETT W. ....	RESEARCH AND DEVELOPMENT OF BIOHAZARDS FACILITIES .....	3N01 CP33243-07	24,968
COLLINS, G ROBERT. ....	PREPARATION OF BULK CHEMICALS AND DRUGS .....	5N01 CM53768-01	252,296
SCHWETZ, B A. ....	EFFECT OF ENVIRONMENT ON REPRODUCTION AND ONCOGENESIS .....	5N01 ES32102-07	750,035
ORGANIZATION TOTAL	3	1,027,299	
STATE TOTAL	48	10,973,295	
<b>MINNESOTA</b>			
<b>AUSTIN</b>			
<b>UNIVERSITY OF MINNESOTA</b> <b>ZIP CODE 55912</b>			
JENKIN, HOWARD M. ....	IN VITRO CULTIVATION OF TREPONEMA PALLIDUM .....	2N01 AM2537-03	78,977
ORGANIZATION TOTAL	1	78,977	
<b>DULUTH</b>			
<b>UNIVERSITY OF MINNESOTA</b> <b>ZIP CODE 55912</b>			
CARTER, ROBERT E. ....	STUDY OF EFFECT OF ASBESTOS FIBERS ON TISSUES .....	2N01 ES42149-06	19,859
ORGANIZATION TOTAL	1	19,859	
<b>MINNEAPOLIS</b>			
<b>HENNEPIN COUNTY MEDICAL CENTER</b> <b>ZIP CODE 55415</b>			
WATHEN, RONALD L. ....	ASSESSMENT OF ADEQUACY OF DIALYSIS .....	3N01 AM22225-06	7,248
ORGANIZATION TOTAL	1	7,248	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract		Contract No.	Dollars
<b>MINNESOTA—Continued</b>					
<b>HONEYWELL      ZIP CODE 55408</b>					
RASMUSSEN, DENNIS .....	CLINICAL LABORATORY INFORMATION SYSTEM.....	3N01	CL42174-06	10,000	
ORGANIZATION TOTAL	1      10,000				
<b>MIDWEST RESEARCH INSTITUTE      ZIP CODE 55406</b>					
PETERSEN, ROBERT J .....	EVALUATION OF FLUOROPOLYMER MEMBRANES IN OXYGENATORS .....	9N01	HV62912-00	79,494	
ORGANIZATION TOTAL	1      79,494				
<b>MOUNT SINAI HOSPITAL      ZIP CODE 55404</b>					
BERMAN, REUBEN .....	HYPERTENSION PROGRAM.....	2N01	HV22937-04	316,157	
SEGAL, MARVIN S. ....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01	HV52926-02	94,990	
ORGANIZATION TOTAL	2      411,147				
<b>UNIVERSITY OF MINNESOTA      ZIP CODE 55455</b>					
BANTLI, HEINRICH .....	ELECTRICAL STIMULATION OF THE CEREBELLUM .....	2N01	NS42332-02	84,863	
BLACKBURN, HENRY.....	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE .....	2N01	HV22976-05	2,567,852	
BLACKSHEAR, PERRY L, JR.....	STUDY OF FLUID DYNAMICS OF BLOOD CELLS.....	2N01	AM22207-07	67,600	
BLOOMFIELD, CLARA D.....	CLASSIFICATION OF NONHODGKIN'S LYMPHOMAS.....	1N01	CM67113-00	48,972	
BLUMENTHAL, MALCOM N.....	PREVALENCE OF SPECIFIC HLA ANTIGENS AND LUNG DISEASES .....	1N01	HR62938-00	168,000	
EATON, JOHN W.....	ERYTHROCYTE DESTRUCTION IN CHRONIC RENAL DISEASE .....	1N01	AM62214-00	100,380	
EDSON, J ROGER .....	COOPERATIVE STUDY OF FACTOR VIII INHIBITOR IN HEMOPHILIA .....	3N01	HB53022-03	2,292	
FARAS, ANTHONY J.....	RNA TUMOR VIRUS GENE EXPRESSION IN MAMMALIAN CELLS .....	1N01	CP61055-00	62,999	
FOREMAN, HARRY.....	RISK OF SERIOUS COMPLICATIONS IN IUD WEARERS.....	1N01	HD62805-00	80,000	
GILBERTSON, VICTOR A.....	SCREENING TECHNIQUE FOR DETECTING EARLY CANCER OF BOWEL.....	2N01	CB53862-01	498,890	
GRAMBSCH, VICTOR P.....	NUTRITION CODING CENTER FOR MRFIT AND LRC PROGRAMS .....	1N01	HV62941-00	1,105,800	
GUMNIT, ROBERT J.....	A COMPREHENSIVE EPILEPSY PROGRAM .....	2N01	NS52327-04	1,269,496	
HALBERG, FRANZ.....	RHYTHMOMETRY ON FEMALE VOLUNTEERS OF DIFFERENT AGES .....	3N01	CP55702-01	176,300	
HARRIS, JOHN E.....	STUDY OF DIABETIC RETINOPATHY .....	3N01	EY32126-04	239,365	
KERSEY, JOHN H.....	IMMUNODEFICIENCY-CANCER REGISTRY .....	2N01	CP43384-05	36,999	
KIANG, DAVID T.....	ENDOCRINE AND CHEMOTHERAPY IN BREAST CANCER .....	1N01	CB64000-00	87,500	
KJELSBERG, MARCUS O.....	STUDY OF PREVENTION OF CORONARY HEART DISEASE .....	3N01	HV22971-04	1,441,927	
MC CULLOUGH, JEFFREY.....	COLLECTION, FUNCTION AND TRANSFUSION OF GRANULOCYTES .....	1N01	HB62972-00	127,890	
MC KHANN, CHARLES F.....	ROLE OF CIRCULATING TUMOR ANTIGENS IN IMMUNOTHERAPY .....	2N01	CB43946-02	90,779	
MC LAUGHLIN, STEVEN D.....	CONSEQUENCES OF ADOLESCENT CHILDBEARING.....	1N01	HD62832-00	34,905	
MAJARIAN, JOHN S.....	COLLECTION OF SERA FROM HIGH-CANCER RISK PATIENTS.....	2N01	CB33915-03	84,500	
PLAGEMANN, PETER G.....	CHARACTERIZATION OF ANTITUMOR DRUGS—DRUG MECHANISMS .....	5N01	CM43788-02	70,801	
QUIE, PAUL G.....	PNEUMOCOCCAL OTITIS MEDIA IN ANIMAL MODEL.....	2N01	AI52533-03	88,000	
SCHMIDTKE, JON R.....	MACROPHAGES IN TUMOR IMMUNOLOGY.....	2N01	CB43948-02	76,313	
SCHOENER, WALTER.....	INDEX OF DIABETES-RELATED LITERATURE .....	2N01	AM70663-16	123,175	
SCHUMAN, LEONARD M.....	STUDY OF CANCER MORTALITY .....	2N01	CP33325-04	22,557	
SIMMONS, RICHARD L.....	STUDY OF IMMUNOTHERAPY OF PATIENTS WITH CANCER .....	2N01	CB23885-03	90,000	
VESLEY, DONALD.....	COURSES ON PRINCIPLES OF BIOHAZARD AND INJURY CONTROL .....	9N01	CP61033-00	77,728	
VOSIKA, GERALD J.....	STUDY OF MYCOBACTERIUM PHLEI IN CANCER .....	1N01	CB64002-00	73,891	
WATTENBERG, LEE W.....	STUDY OF POLYCYCLIC HYDROCARBON METABOLISM .....	5N01	CP33364-04	223,818	
YUNIS, EDMOND J.....	HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION .....	2N01	AI2530-05	115,725	
YUNIS, EDMOND J.....	ASSAYS FOR IMMUNE DEPRESSION IN CANCER PATIENTS.....	3N01	CB43853-03	14,072	
ORGANIZATION TOTAL	32      9,353,389				
<b>ROCHESTER</b>					
<b>MAYO FOUNDATION      ZIP CODE 55901</b>					
AHMANN, DAVID L.....	CHEMOTHERAPY UTILIZING 5-FU, CYTOXAN AND PREDNISONE .....	2N01	CB33899-03	81,570	
AHMANN, DAVID L.....	CHEMOTHERAPY STUDIES IN PATIENTS WITH BREAST CANCER .....	2N01	CM53772-03	391,952	
ALBERT, ALEXANDER.....	PREPARATION OF AN ATLAS OF THE HUMAN TESTES.....	1N01	HD62837-00	15,810	
BAKER, HILLIER L, JR.....	CLINICAL EVAL. OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY .....	5N01	CB43982-02	141,790	
BARNHORST, DONALD A.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	3N01	HV32984-07	27,300	
BEAHR, OLIVER H.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES .....	5N01	CN45120-02	123,563	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MINNESOTA—Continued</b>			
DECKER, DAVID G.....	THERAPY OF PATIENTS WITH OVARIAN CARCINOMA.....	1N01 CM67123-00	185,045
DECKER, DAVID G.....	STUDY OF GENITAL TRACT ANOMALIES.....	5N01 CN45124-04	404,800
DI MAGNO, EUGENE P.....	PHYSIOLOGICAL REFLUX IN THE PANCREATIC DUCT.....	5N01 CP55660-02	92,100
DOUGLASS, BRUCE E.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NEWTORK.....	3N01 CN55242-01	22,021
DYCK, PETER J.....	HISTOLOGIC AND LIPID EVALUATION OF BIOPSIED NERVE.....	2N01 AM22200-07	51,535
DYCK, PETER J.....	ORAL-FACIAL EVALUATION OF UNTREATED TRIGEMINAL NEURALGIA.....	1N01 DE62497-00	90,290
EDMONSON, J H.....	STUDIES OF PATIENTS WITH SOLID DISSEMINATED TUMORS.....	5N01 CM57044-02	427,979
EVANS, TITUS C.....	DEVELOPMENT OF ULTRASONIC DETECTION OF ATHEROSCLEROSIS.....	2N01 HV42904-05	352,832
FONTANA, R S.....	DETECTION AND LOCALIZATION OF BRONCHOGENIC CARCINOMA.....	5N01 CB53886-01	1,822,150
GISVOLD, J J.....	EVALUATION OF COMPUTERIZED TOMOGRAPHIC MAMMOGRAPHY.....	1N01 CB64047-00	134,700
GLEICH, GERALD J.....	ESTABLISH ALLERGEN CERTIFICATION LABORATORY.....	2N01 A142546-02	-35,025
GO, V L.....	DIAGNOSTIC STUDY OF CARCINOMA OF THE BOWEL.....	2N01 CB23854-04	160,000
GO, V L.....	EARLY DIAGNOSIS OF PANCREATIC CANCER.....	5N01 CB43895-02	182,988
GREENLEAF, JAMES F.....	BREAST DIAGNOSIS: QUANTITATIVE IMAGING BY ULTRASOUND.....	1N01 CB64041-00	185,500
LABARTHE, DARWIN R.....	STUDY OF BREAST CANCER AND RESERPINE USE.....	1N01 HV62900-00	24,156
MOERTEL, CHARLES G.....	CANCER IMMUNOTHERAPY; PHASE I STUDY.....	2N01 CB53874-01	91,450
MOERTEL, CHARLES G.....	NEW DRUGS FOR TREATMENT OF GASTROINTESTINAL CANCER.....	2N01 CM02066-12	306,480
MOERTEL, CHARLES G.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	5N01 CM57033-02	143,375
ROBB, RICHARD A.....	TEST ALGORITHMS—COMPUTERIZED TRANSAXIAL RECONSTRUCTION.....	2N01 CB53857-01	99,980
SCHUTT, ALLAN J.....	ESTABLISHMENT AND MAINTENANCE OF BLOOD SERUM BANK.....	2N01 CB23879-04	105,000
SEKERT, ROBERT G.....	BIBLIOGRAPHY ON CEREBROVASCULAR DISEASES.....	3N01 NS60933-12	27,000
STOBO, JOHN D.....	IN VITRO TEST FOR SARCOIDOSIS.....	2N01 HR42959-02	26,500
TOFT, DAVID O.....	ROLE OF STEROID HORMONE RECEPTOR IN REPRODUCTIVE BIOLOGY.....	5N01 HD32769-06	99,820
ORGANIZATION TOTAL	29	5,852,711	

## SAINT PAUL

### PLANNED PARENTHOOD OF MINNESOTA ZIP CODE 55104

HANSON, MILDRED.....	CLINICAL STUDY OF ESTROGENS AS POSTCOITAL CONTRACEPTIVES.....	3N01 HD32762-04	26,000
ORGANIZATION TOTAL	1	26,000	

STATE TOTAL 69 15,838,825

## MISSISSIPPI

### JACKSON

### MISSISSIPPI STATE BOARD OF HEALTH ZIP CODE 39205

BLAKEY, DURWARD.....	EXPANSION OF MISSISSIPPI'S CERVICAL CANCER SCREENING.....	5N01 CN45086-03	273,089
ORGANIZATION TOTAL	1	273,089	

### UNIVERSITY OF MISSISSIPPI MEDICAL CENTER ZIP CODE 39216

BYERS, BENJAMIN R.....	IRON CHELATING AGENTS IN TREATMENT OF COOLEY'S ANEMIA.....	5N01 AM42226-03	36,425
HUTCHINSON, RICHARD G.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52912-03	88,182
JABALEY, MICHAEL E.....	CANCER CONTROL PROJECT FOR HEAD AND NECK CANCER.....	2N01 CN55254-01	123,872
LANGFORD, HERBERT G.....	THERAPY FOR HYPERTENSION IN THE GENERAL POPULATION.....	2N01 HV12437-09	409,197
ORGANIZATION TOTAL	4	657,676	

STATE TOTAL 5 930,765

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MISSOURI</b>			
<b>COLUMBIA</b>			
<b>CANCER RESEARCH CENTER</b>	<b>ZIP CODE 65201</b>		
RODES, NED D.....	SUPPORT OF CANCER-DETECTION PROGRAM.....	2N01 CN45095-02	335,000
ORGANIZATION TOTAL	1	335,000	
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT COLUMBIA</b>	<b>ZIP CODE 65201</b>		
GEHRKE, CHARLES W.....	DEVELOPMENT/APPLICATION OF GAS CHROMATOGRAPHIC TECHNIQUE.....	2N01 CM12323-10	201,226
LICHTE, FREDERICK E.....	ANALYSIS OF TRACE ELEMENTS IN HUMAN TISSUES.....	1N01 HV62961-00	72,517
NOLPH, KARL D.....	ADHERENCE OF BLOOD COMPONENTS TO COIL MEMBRANES.....	2N01 AM22202-08	39,480
ORGANIZATION TOTAL	3	313,223	
<b>INDEPENDENCE</b>			
<b>INDEPENDENCE NEIGHBORHOOD COUNCILS</b>	<b>ZIP CODE 64050</b>		
SCHAEFER, ROY H.....	COMMUNITY CARES PREVENTION DEMONSTRATION PROJECT.....	5N01 DE52469-03	60,203
ORGANIZATION TOTAL	1	60,203	
<b>KANSAS CITY</b>			
<b>AMERICAN ACADEMY OF FAMILY PHYSICIANS</b>	<b>ZIP CODE 64114</b>		
KILLIAN, HARRY A.....	FAMILY PHYSICIAN IN DIAGNOSIS AND MANAGEMENT OF CANCER.....	1N01 CN65060-00	57,912
ORGANIZATION TOTAL	1	57,912	
<b>MIDWEST RESEARCH INSTITUTE</b>	<b>ZIP CODE 64110</b>		
CHENG, C C.....	SYNTHESIS OF COMPOUNDS FOR STUDY OF CANCER CHEMOTHERAPY.....	5N01 CM33743-03	390,860
ENGLE, JAMES F.....	SYNTHESIS OF POLYCYCLIC HYDROCARBON DERIVATIVES.....	5N01 CP33387-06	407,254
ENGLE, JAMES F.....	PREPARATION OF TWO COMPOUNDS.....	1N01 CP65821-00	12,631
FOTOPOULOS, SOPHIA S.....	PSYCHOLOGICAL ASPECTS OF BREAST CANCER.....	5N01 CM55312-02	258,900
FOTOPOULOS, SOPHIA S.....	BEHAVIOR MODIFICATION IN THE TREATMENT OF ANOREXIA.....	1N01 CP65787-00	135,950
HUBBARD, H M.....	PROCUREMENT AND ANALYSIS OF CHEMICALS.....	3N01 CP23270-06	26,160
LEE, C C.....	LONG-RANGE TOXICOLOGIC EFFECT OF SPECIFIC FUNGICIDES.....	5N01 ES22084-09	148,738
MEINERS, A F.....	PREPARATION OF CARCINOGEN SAFETY MONOGRAPHS.....	1N01 CO65331-00	150,155
METZ, F I.....	ANALYSIS OF CHEMICALS AND PHARMACEUTICAL FORMULATIONS.....	5N01 CM33722-04	226,061
SMITH, I C.....	APPRAISAL OF ENVIRONMENTAL EXPOSURE TO HEAVY METALS.....	2N01 ES22090-05	58,861
ORGANIZATION TOTAL	10	1,815,570	
<b>SAINT LOUIS</b>			
<b>JEWISH HOSPITAL OF ST. LOUIS</b>	<b>ZIP CODE 63110</b>		
LITTLE, J RUSSELL, JR.....	STUDY OF IMMUNOLOGICAL PROPERTIES.....	2N01 CB43872-02	60,000
ORGANIZATION TOTAL	1	60,000	
<b>ST. LOUIS HEART ASSOCIATION</b>	<b>ZIP CODE 63108</b>		
ZIMMERMAN, HERBERT B.....	STUDY OF ARRHYTHMIAS IN CORONARY HEART DISEASE.....	2N01 HV22982-03	372,039
ORGANIZATION TOTAL	1	372,039	
<b>ST. LOUIS UNIVERSITY</b>	<b>ZIP CODE 63103</b>		
CAVANAGH, DENIS.....	CORRELATE CERVICAL MUCUS CHANGES WITH SERUM HORMONES.....	1N01 HD62823-00	102,680
GREEN, MAURICE.....	STUDY OF ONCOGENESIS.....	3N01 CP43359-04	701,802
GREEN, MAURICE.....	SEARCH FOR RNA VIRUS-SPECIFIC GENETIC MATERIAL.....	9N01 CP61049-00	261,559
GREEN, MAURICE.....	INFLUENCE OF INTERACTION BETWEEN ENVIRONMENTAL FACTORS.....	1N01 CP61062-00	185,332
MUELLER, GILTRUD.....	PROTECT ISCHEMIC MYOCARDIUM AND MINIMIZE INFARCT SIZE.....	1N01 HV62960-00	641,279
SMITH, KENNETH R, JR.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	5N01 CM57020-02	112,832

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>MISSOURI—Continued</b>			
ORGANIZATION TOTAL	6	2,005,484	
<b>UNIVERSITY CITY</b>			
<b>WASHINGTON UNIVERSITY</b>	<b>ZIP CODE 63130</b>		
BRUCE, ROBERT M.....	STUDY OF PROTEINASE INHIBITOR PHENOTYPES.....	2N01 HR12218-08	61,482
FLETCHER, ANTHONY P.....	STUDY CONTRACEPTIVE AGENTS EFFECT ON BLOOD COAGULATION.....	3N01 HD12302-08	6,600
HERZIG, GEOFFREY P.....	COLLECTION, FUNCTION AND TRANSFUSION OF GRANULOCYTES.....	1N01 HB62970-00	110,444
KARDOS, J L.....	DEVELOPMENT OF MATERIALS FOR VASCULAR PROSTHESES.....	5N01 HV32909-05	64,140
MARSHALL, GARLAND R.....	TRANSITIONS OF MONODISPERSE OLIG-V-METHYL-GLUTAMATES.....	1N01 CT62121-00	12,966
SHREFFLER, DONALD C.....	PREPARE SPECIFIC ALLOANTISERA.....	1N01 AI62502-00	60,340
VIETTI, TERESA J.....	INTERACTION OF ANTICANCER AGENTS AT THE CELLULAR LEVEL.....	5N01 CM43731-03	112,243
ORGANIZATION TOTAL	7	428,215	
STATE TOTAL	31	5,447,646	
<b>MONTANA</b>			
<b>BOZEMAN</b>			
<b>MONTANA STATE UNIVERSITY</b>	<b>ZIP CODE 59715</b>		
HUFFMAN, ROY E.....	DEVELOP AND SUPPORT A CTS FACILITY.....	1N01 LM64741-00	30,618
SMITH, MALCOLM H.....	MODEL SYSTEM FOR RSV DISEASE IN CHILDREN.....	2N01 AI52518-02	48,803
ORGANIZATION TOTAL	2	79,421	
<b>HELENA</b>			
<b>MONTANA STATE DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES</b>	<b>ZIP CODE 59601</b>		
TERRILL, A JACK.....	COMMUNITY CARIES PREVENTION DEMONSTRATION PROJECT.....	3N01 DE52467-02	8,067
ORGANIZATION TOTAL	1	8,067	
STATE TOTAL	3	87,488	
<b>NEBRASKA</b>			
<b>LINCOLN</b>			
<b>NEBRASKA DEPARTMENT OF HEALTH</b>	<b>ZIP CODE 68508</b>		
GRANT, ROBERT S.....	STATE CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45081-03	290,628
ORGANIZATION TOTAL	1	290,628	
<b>UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA AT LINCOLN</b>	<b>ZIP CODE 68508</b>		
BAHERJEE, MIHIR R.....	CARCINOGEN-INDUCED NODULIGENESIS AND TUMORIGENESIS.....	2N01 CP33289-02	89,500
ORGANIZATION TOTAL	1	89,500	
<b>OMAHA</b>			
<b>CREIGHTON UNIVERSITY</b>	<b>ZIP CODE 68178</b>		
LYNCH, HENRY T.....	STUDY OF FAMILIES WITH A HIGH INCIDENCE OF BREAST CANCER.....	2N01 CB33901-03	59,500
LYNCH, HENRY T.....	BIOCHEMICAL AND PHYSIOLOGICAL INVESTIGATIONS.....	2N01 CB44003-03	118,900
TOWNLEY, ROBERT G.....	STUDIES ON RESPIRATORY DISEASES.....	2N01 HR22985-05	110,240
ORGANIZATION TOTAL	3	288,640	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>NEBRASKA—Continued</b>				
UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER		ZIP CODE 68105		
CLAYSON, DAVID.....		BIOASSAYS OF ENVIRONMENTAL CARCINOGENESIS.....	5N01 CP33278-03	3,388,143
FRIEDLANDER, WALTER J.....		SUPPORT FOR CLINICAL NEUROLOGY INFORMATION CENTER.....	2N01 NS22300-05	104,000
NOT APPLICABLE.....		REGIONAL MEDICAL LIBRARY PROGRAM.....	5N01 LM54717-01	212,161
ORGANIZATION TOTAL	3	3,704,304		
STATE TOTAL	8	4,373,072		
<b>NEVADA</b>				
<b>CARSON CITY</b>				
NEVADA STATE DEPARTMENT OF HUMAN RESOURCES		ZIP CODE 89701		
HOLDERMAN, MELBA.....		CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN65262-00	177,844
ORGANIZATION TOTAL	1	177,844		
STATE TOTAL	1	177,844		
<b>NEW HAMPSHIRE</b>				
<b>DURHAM</b>				
UNIVERSITY OF NEW HAMPSHIRE SYSTEM—UNIVERSITY OF NEW HAMPSHIRE		ZIP CODE 03024		
LYLE, ROBERT E.....		PREPARATION OF VARIOUS N-NITROSO COMPOUNDS.....	2N01 CP55675-01	45,920
ORGANIZATION TOTAL	1	45,920		
<b>HANOVER</b>				
DARTMOUTH COLLEGE		ZIP CODE 03755		
CURPHEY, THOMAS J.....		PANCREAS UPTAKE AND EXCRETION: RATS AND HAMSTERS.....	5N01 CP55708-01	114,064
LONGNECKER, DANIEL S.....		DELIVERY OF SYNTHETIC NITROSO COMPOUNDS TO THE PANCREAS.....	2N01 CP33378-02	105,313
MAURER, HERBERT L.....		PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45146-02	357,459
MC INTYRE, O ROSS.....		SUPPORT FOR CLINICAL CHEMOTHERAPY PROGRAM.....	2N01 CN35017-05	14,002
SORENSEN, GEORGE D.....		MODEL FOR OAT CELL CARCINOMA OF THE LUNG.....	1N01 CP65776-00	195,992
ORGANIZATION TOTAL	5	786,830		
MARY HITCHCOCK MEMORIAL HOSPITAL		ZIP CODE 03755		
LANE, FRANK W.....		CONDUCT RADIATION THERAPY TREATMENT.....	2N01 CB12087-07	496,000
ORGANIZATION TOTAL	1	496,000		
STATE TOTAL	7	1,328,750		
<b>NEW JERSEY</b>				
<b>BOUND BROOK</b>				
UNION CARBIDE CORPORATION—BOUND BROOK TECHNICAL CENTER		ZIP CODE 08005		
BYCK, JOSEPH S.....		IMPROVED ULTRATHIN WEB STRUCTURES.....	3N01 HV81388-16	98,723
KWIATKOWSKI, G T.....		BLOOD COMPATIBLE POLY-ELECTROLYTES.....	2N01 HV32950-04	37,840
ROBESON, LLOYD M.....		MATERIALS FOR EXTRAORAL MAXILLOFACIAL PROSTHESIS.....	3N01 DE42436-03	34,484
ORGANIZATION TOTAL	3	171,047		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW JERSEY—Continued</b>			
<b>CAMDEN</b>			
<b>INSTITUTE FOR MEDICAL RESEARCH</b>	<b>ZIP CODE 08103</b>		
CORIELL, LEWIS L.....	OPERATION OF A REPOSITORY FOR HUMAN MUTANT CELL LINES.....	1N01 GM62119-00	361,413
MOORE, DAN H.....	STUDY OF MILK AND MAMMARY TUMORS.....	2N01 CP53561-03	341,000
NICHOLS, WARREN W.....	GENETICALLY MARKED CELLS FOR AGING RESEARCH.....	2N01 AG42865-03	165,331
ORGANIZATION TOTAL	3	867,744	
<b>CHERRY HILL</b>			
<b>COMPUTER HORIZONS</b>	<b>ZIP CODE 08034</b>		
NARIN, FRANCIS.....	LINKAGE BETWEEN RESEARCH PUBLICATIONS AND NIH FUNDING.....	3N01 OD32109-07	133,927
ORGANIZATION TOTAL	1	133,927	
<b>ELKINS-SINN</b>	<b>ZIP CODE 08002</b>		
REESE, DAVID.....	PRODUCE PARENTERAL DOSE FORMS FOR CLINICAL USE.....	1N01 CM67103-00	134,732
ORGANIZATION TOTAL	1	134,732	
<b>FAIRFIELD</b>			
<b>TECHNICON CORPORATION—TECHNICON MEDICAL INFORMATION SYSTEMS CORPORATION</b>	<b>ZIP CODE 07006</b>		
TAPLEY, JAMES.....	COMPUTER BASED HOSPITAL INFORMATION SYSTEM.....	3N01 CL52154-02	365,046
ORGANIZATION TOTAL	1	365,046	
<b>GARFIELD</b>			
<b>LABORATORY PRODUCTS, INC.</b>	<b>ZIP CODE 07026</b>		
TO BE APPOINTED.....	PROTOTYPE ANIMAL CAGE RACK ISOLATOR.....	1N01 C065327-00	4,999
ORGANIZATION TOTAL	1	4,999	
<b>HIGHLAND PARK</b>			
<b>UNIVERSITY LABORATORIES</b>	<b>ZIP CODE 08904</b>		
BERNSTEIN, EUGENE H.....	PRODUCTION OF ONCOGENIC VIRUSES AND ANTISERA.....	2N01 CP33222-07	329,800
ORGANIZATION TOTAL	1	329,800	
<b>LINDEN</b>			
<b>EXXON CORPORATION—EXXON RESEARCH CENTER</b>	<b>ZIP CODE 07036</b>		
ASHER, WILLIAM J.....	LIQUID MEMBRANE CAPSULE SYSTEM FOR CHRONIC UREMIA.....	2N01 AM32224-07	148,420
ORGANIZATION TOTAL	1	148,420	
<b>MAYWOOD</b>			
<b>PFIZER, INC.</b>	<b>ZIP CODE 07607</b>		
AHMED, MUMTAZ.....	VIRAL INVOLVEMENT IN MAMMARY CARCINOMA.....	1N01 CP61054-00	150,000
LARSON, DAVID.....	PREPARATION AND PURIFICATION OF VIRAL COMPONENTS.....	5N01 CM53805-02	672,450
MAYYASI, SAMI.....	PRODUCTION OF HUMAN LYMPHOID CELLS IN CULTURE.....	3N01 CB12078-08	21,619
MAYYASI, SAMI.....	DEVELOPMENT OF VIRUS-CANCER TEST SYSTEM.....	2N01 CP33234-10	1,619,000
WOLFF, JOHN S, III.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	5N01 CP55703-01	139,023
ORGANIZATION TOTAL	5	2,602,092	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW JERSEY—Continued</b>			
<b>NEWARK</b>			
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY      ZIP CODE 07103</b>			
LASSER, NORMAN L.....	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE.....	2N01 HV33104-05	493,257
RUSH, BENJAMIN F, JR.....	PROGRAM FOR EARLY DETECTION OF BREAST CANCER.....	2N01 CN35006-05	265,161
RUSH, BENJAMIN F, JR.....	CASE CONTROL STUDY OF RESERPINE & BREAST CANCER.....	1N01 CP61015-00	2,888
ORGANIZATION TOTAL	3	761,306	
<b>NEW BRUNSWICK</b>			
<b>RUTGERS UNIVERSITY      ZIP CODE 08903</b>			
NICKERSON, WALTER J.....	SCREEN BLACK YEASTS FOR ANTINEOPLASTIC ACTIVITY.....	1N01 CM67106-00	104,871
SIMPSON, ROBERT W.....	MUTANTS OF RESPIRATORY VIRUSES AS VACCINE STRAINS.....	2N01 AI22504-04	108,596
ORGANIZATION TOTAL	2	213,467	
<b>PARAMUS</b>			
<b>NEW JERSEY RESEARCH FOUNDATION FOR MENTAL HYGIENE      ZIP CODE 07652</b>			
ESSER, ARISTIDE H.....	ACQUISITION OF GIBBON PRIMATES FOR RESEARCH PURPOSES.....	1N01 C065319-00	30,000
ORGANIZATION TOTAL	1	30,000	
<b>PISCATAWAY</b>			
<b>COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY—RUTGERS MEDICAL SCHOOL      ZIP CODE 08854</b>			
GOTTLIEB, MARISE S.....	STUDY OF CORONARY HEART DISEASE.....	3N01 HV42929-02	455,007
KUO, PETER T.....	CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52924-03	94,330
ORGANIZATION TOTAL	2	549,337	
<b>PRINCETON</b>			
<b>EXCERPTA MEDICA FOUNDATION      ZIP CODE 08540</b>			
VINKEN, PIERRE J.....	ABSTRACT SERVICES RELATIVE TO HUMAN GENETIC RESEARCH.....	2N01 GM52115-01	8,763
VINKEN, PIERRE J.....	SUPPORT FOR PUBLICATION OF EPILEPSY ABSTRACTS.....	2N01 NS32303-05	37,335
ORGANIZATION TOTAL	2	46,098	
<b>PRINCETON UNIVERSITY      ZIP CODE 08540</b>			
COALE, ANSLEY J.....	ANALYSIS OF THE DECLINE OF FERTILITY IN EUROPE.....	2N01 HD02077-11	25,184
COALE, ANSLEY J.....	SUPPORT OF PUBLICATION OF POPULATION INDEX.....	2N01 HD12138-07	187,324
MENKEN, JANE A.....	STUDY ON SEQUELAE TO TEENAGE PREGNANCY.....	1N01 HD62858-00	74,891
WESTOFF, CHARLES F.....	LONGITUDINAL STUDY OF FERTILITY.....	5N01 HD52819-03	228,945
ORGANIZATION TOTAL	4	516,344	
<b>TOTAL RESEARCH CORPORATION      ZIP CODE 08540</b>			
KYLE, CORRINE.....	BREAST CANCER DEMONSTRATION PROJECT INTERVIEW CONTRACT.....	1N01 CN65178-00	271,336
ORGANIZATION TOTAL	1	271,336	
<b>RAHWAY</b>			
<b>MERCK AND COMPANY      ZIP CODE 07065</b>			
HILLEMAN, MAURICE M.....	ONCOGENIC VIRUS RESEARCH AND VACCINE DEVELOPMENT.....	3N01 CP12059-14	881,940
ORGANIZATION TOTAL	1	881,940	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract		Contract No.	Dollars
NEW JERSEY—Continued				
SUMMIT				
CELANESE CORPORATION—SUMMIT LABORATORY		ZIP CODE 07901		
MODEL, FRANK S.....	OPTIMIZED HEMODIALYSIS MEMBRANES.....	2N01 AM32200-06	99,986	
ORGANIZATION TOTAL	1 99,986			
TRENTON				
NEW JERSEY STATE DEPARTMENT OF HEALTH		ZIP CODE 08625		
GOLDFIELD, MARTIN.....	ETIOLOGIC STUDIES OF CANCER IN NEW JERSEY.....	1N01 CP61031-00	83,078	
ORGANIZATION TOTAL	1 83,078			
WESTMONT				
KESSLER COMMUNICATIONS		ZIP CODE 08108		
KESSLER, S SIM.....	INDEXING JOURNAL ARTICLES IN THE BIOMEDICAL SCIENCES.....	1N01 LM64708-00	138,060	
ORGANIZATION TOTAL	1 138,060			
STATE TOTAL	36 8,348,759			
NEW MEXICO				
ALBUQUERQUE				
UNIVERSITY OF NEW MEXICO		ZIP CODE 87131		
JORDON, SCOTT W.....	SCREENING FOR EARLY DETECTION OF CANCER OF THE CERVIX.....	5N01 CN45071-01	116,952	
KEY, CHARLES R.....	SUPPORT FOR TUMOR REGISTRY.....	2N01 CP33344-09	382,780	
KLIGERMAN, MORTON M.....	A COMMUNITY BASED CANCER CONTROL PROGRAM.....	1N01 CN65173-00	725,000	
LAND, FRANCIS.....	CONTINUING EDUCATION IN PULMONARY MEDICINE.....	1N01 HR62933-00	37,190	
TUNG, KENNETH S.....	IMMUNOPATHOLOGIC CONSEQUENCES OF VASECTOMY.....	5N01 HD32717-05	106,994	
WALKER, A EARL.....	QUANTITATIVE INTRACRANIAL PRESSURE MEASUREMENT IN MAN.....	2N01 NS52332-04	61,796	
ORGANIZATION TOTAL	6 1,430,712			
STATE TOTAL	6 1,430,712			
NEW YORK				
ALBANY				
NEW YORK STATE DEPARTMENT OF HEALTH		ZIP CODE 12237		
DAO, THOMAS.....	CHEMOTHERAPY STUDIES IN PATIENTS WITH BREAST CANCER.....	2N01 CM53834-03	185,466	
JANERICH, DWIGHT T.....	EVALUATING EFFECT OF ANTIFERTILITY AGENTS.....	5N01 HD52802-01	106,821	
LOGRILLO, VITO M.....	EFFECTS OF INDUCED ABORTION ON SUBSEQUENT REPRODUCTION.....	1N01 HD62802-00	91,820	
PICKREN, JOHN W.....	SUPPLY BLOOD & TISSUE SPECIMENS FROM CANCER PATIENTS.....	2N01 CP43392-02	37,388	
ROHOLT, OLIVER A.....	ANTIGEN-BINDING ACTIV. OF TRANSPLANTABLE T-CELL TUMORS.....	2N01 CB43924-02	37,054	
ORGANIZATION TOTAL	5 458,549			
STATE UNIVERSITY OF NEW YORK		ZIP CODE 12210		
HAPEMAN, KENNETH.....	OPERATION OF MEDLINE BACK-UP COMPUTER SYSTEM.....	1N01 LM64712-00	80,255	
ORGANIZATION TOTAL	1 80,255			

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>UNION COLLEGE AND UNIVERSITY SYSTEM—ALBANY MEDICAL COLLEGE      ZIP CODE 12208</b>			
HORTON, JOHN.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	5N01 CM57032-03	118,018
LEMPERT, NEIL.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI52510-02	22,291
MC KNEALLY, MARTIN F.....	INTRAPLEURAL BCG AFTER PRIMARY SURGERY FOR LUNG CANCER.....	2N01 CB53940-01	65,774
MC KNEALLY, MARTIN F.....	COLLABORATIVE STUDIES IN CORONARY ARTERY SURGERY.....	1N01 HV62921-00	118,252
SPONZO, ROBERT W.....	DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45140-02	357,500
VAN HEUVEN, WICHARD A.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32124-04	173,031
ORGANIZATION TOTAL	6      854,866		
<b>BUFFALO</b>			
<b>ASSOCIATED BIOMEDIC SYSTEMS      ZIP CODE 14202</b>			
GLICK, J LESLIE.....	STUDY OF LYMPHOBLASTOID CELLS.....	3N01 CM02271-10	272,178
ORGANIZATION TOTAL	1      272,178		
<b>CHILDREN'S HOSPITAL      ZIP CODE 14222</b>			
OGRA, PEARAY L.....	HEPATITIS STUDY CENTER.....	2N01 AI32522-03	127,951
ORGANIZATION TOTAL	1      127,951		
<b>NEW YORK STATE DEPARTMENT OF HEALTH—ROSSELL PARK MEMORIAL INSTITUTE      ZIP CODE 14263</b>			
AUNGST, C WILLIAM.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES.....	2N01 CN55299-01	314,852
BARLOW, JOSEPH.....	THERAPY OF PATIENTS WITH OVARIAN CARCINOMA.....	1N01 CM67117-00	121,303
BHATTACHARYA, MALAYA.....	IMMUNODIAGNOSIS FOR EARLY DETECTION OF OVARIAN CANCER.....	1N01 CB64013-00	100,641
CHU, T MING.....	STUDY OF CARCINOEMBRYONIC ANTIGENS.....	2N01 CB33858-02	61,645
DAO, THOMAS L.....	STUDY OF PATHOGENESIS OF MAMMARY CANCER.....	2N01 CB23865-04	82,200
DAO, THOMAS L.....	STUDY OF STEROID SULFATION AND ESTROGEN-BINDING.....	2N01 CB43900-02	97,000
GRINDEY, GERALD B.....	ANTITUMOR DRUGS—PROFILE OF DRUG INTERACTIONS.....	5N01 CM43785-02	57,210
HAUSCHKA, THEODORE S.....	ISO-ANTIGENIC TYPING OF MOUSE STRAINS AND TUMORS.....	2N01 CM02035-09	151,564
HOROSZEWICZ, JULIUS S.....	EVALUATION OF THE ANTITUMOR PROPERTIES OF STREPTOVARICIN.....	3N01 CM33726-04	114,236
MIHICH, ENRICO.....	IMMUNOCHEMOTHERAPY RESEARCH.....	5N01 CM57039-01	95,016
MIRAND, EDWIN A.....	TELEPHONE SYSTEM FOR CANCER PUBLIC INFORMATION.....	5N01 CN45073-02	145,988
MITTELMAN, ARNOLD.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	3N01 CM57034-02	127,763
MURPHY, GERALD P.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CN55174-02	49,645
PAIGEN, BEVERLY.....	METHODS OF ASSAYING ARYL HYDROCARBON HYDROXYLASE IN BLOOD.....	2N01 CP55629-04	144,660
PICKREN, JOHN W.....	CLASSIFICATION OF NONHODGKIN'S LYMPHOMAS.....	1N01 CM67114-00	67,100
SAKO, KUMAO.....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY.....	1N01 CP65867-00	161,806
SCHAAF, NORMAN G.....	TRAINING PROGRAMS FOR MAXILLOFACIAL PROSTHODONTISTS.....	5N01 CN45101-05	76,969
SHEDD, DONALD P.....	DEMONSTRATION PROJECT IN HEAD AND NECK CANCER.....	2N01 CN55257-01	371,417
TAKITA, HIROSHI.....	IMMUNOTHERAPY OF SQUAMOUS CELL CARCINOMA.....	1N01 CB64007-00	148,188
VINCENT, RONALD G.....	THERAPY OF PATIENTS WITH BRONCHOGENIC CARCINOMA.....	2N01 CM33734-06	52,783
WEISS, LEONARD.....	EVALUATE MACROPHAGE ELECTROPHORETIC MOBILITY ASSAY.....	2N01 CB53901-02	26,368
WILSON, DOROTHY T.....	ONCOLOGY NURSING PROGRAMS IN MEDICAL CENTERS.....	5N01 CN55063-01	221,481
ORGANIZATION TOTAL	22      2,789,835		
<b>RESEARCH FOR HEALTH IN ERIE COUNTY      ZIP CODE 14215</b>			
BISSELL, G DONALD.....	COMMUNITY CARES PREVENTION DEMONSTRATION PROJECTS.....	3N01 DE52473-02	28,686
ORGANIZATION TOTAL	1      28,686		
<b>STARKS ASSOCIATES      ZIP CODE 14213</b>			
PAULL, KENNETH D.....	CHEMICAL AND DRUG EVALUATION IN CANCER CHEMOTHERAPY.....	5N01 CM53745-02	373,263
SCHULTZ, ROBERT J.....	RESYNTHESIS OF BULK CHEMICALS AND DRUGS.....	5N01 CM53769-01	181,237
STARKS, FRED W.....	SYNTHESIS OF CANCER CHEMOTHERAPY COMPOUNDS.....	5N01 CM23203-08	392,576
ORGANIZATION TOTAL	3      947,076		
<b>STATE UNIVERSITY OF NEW YORK AT BUFFALO      ZIP CODE 14214</b>			
BAHL, OM P.....	IDENTIFICATION AND PURIFICATION OF ENDOGLYCOSIDASES.....	2N01 CB43989-03	45,103



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>				
BARNARD, ERIC A.....		BIOCHEMICAL MARKERS THAT PRESAGE CANCER.....	5N01 CB43977-03	79,724
BATES, THEODORE R.....		FORMULATIONS TO IMPROVE EFFICACY OF NATURAL STEROIDS.....	1N01 HD62848-00	70,820
BIGAZZI, PIERLUIGI E.....		IMMUNOLOGICAL STUDIES ON STEROID-PRODUCING CELLS.....	3N01 HD22775-06	13,784
COSTA, GIOVANNI.....		ANOREXIA IN ADULT AND PEDIATRIC CANCER PATIENTS.....	1N01 CP65834-00	218,236
FISCHMAN, STUART L.....		DEGREE OF EFFECTIVENESS OF CAVES PREVENTIVE PROCEDURES.....	2N01 DE22406-03	86,151
GENCO, ROBERT J.....		CHEMICAL AGENTS TO PREVENT HUMAN PERIODONTAL PLAQUE.....	3N01 DE42440-04	59,543
GUSTAVO, CUDKOWICS.....		IMMUNOCHEMOTHERAPY RESEARCH.....	5N01 CM53766-01	141,153
HERMAN, GABOR T.....		COMPUTERIZED TRANSAXIAL X-RAY RECONSTRUCTION.....	2N01 CB53860-01	105,892
KANO, KYOICHI.....		HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI52514-01	11,335
KLEIN, EDMUND.....		MECHANISMS OF THE IMMUNE RESPONSE TO CUTANEOUS NEOPLASMS.....	2N01 CP33373-04	50,000
LORE, JOHN M, JR.....		OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY.....	1N01 CP65868-00	81,671
NISENGARD, RUSSELL J.....		IMMUNOLOGIC CROSS-REACTIVITY OF ORAL STREPTOCOCCI.....	1N01 DE62488-00	53,184
ZELEN, MARVIN.....		SUPPORT FOR COOPERATIVE STUDY OF BRONCHOGENIC CARCINOMA.....	5N01 CM33715-07	372,257
ORGANIZATION TOTAL	14	1,388,853		
<b>CHEEKTOWAGA</b>				
CALSPAN CORPORATION	ZIP CODE 14225			
BAIER, ROBERT E.....		MATERIALS COMPATIBLE WITH BLOOD.....	5N01 HV32953-05	68,649
ORGANIZATION TOTAL	1	68,649		
<b>ELMSFORD</b>				
MATHEMATICAL APPLICATIONS GROUP	ZIP CODE 10523			
MITTELMAN, PHILLIP S.....		COMPUTER ANIMATED AUDIOVISUAL FOR MEDICAL INSTRUCTION.....	1N01 LM64736-00	44,497
ORGANIZATION TOTAL	1	44,497		
<b>GREENPORT</b>				
SHELTER ISLAND OYSTER COMPANY	ZIP CODE 11944			
CHANLEY, PAUL.....		REARING AND MAINTENANCE OF SQUID.....	5N01 RR52150-02	53,395
ORGANIZATION TOTAL	1	53,395		
<b>ITHACA</b>				
CORNELL UNIVERSITY	ZIP CODE 14850			
ANDREWS, EDWIN J.....		STUDY OF COLON TUMORS.....	1N01 CP65744-00	131,841
MC GINNIS, ROBERT.....		FEDERAL POLICY IMPACT ON BIOSCIENCES—STATISTICAL MODELS.....	2N01 OD42175-03	139,532
SCOTT, FREDRIC W.....		ANIMAL MODEL FOR ANTIVIRAL EVALUATION.....	5N01 AI52527-01	96,306
VISEK, WILLARD J.....		STUDY OF CONTRACEPTIVE STEROIDS.....	3N01 HD22725-06	187,007
ORGANIZATION TOTAL	4	554,686		
<b>LAKE PLACID</b>				
TISSUE CULTURE ASSOCIATION—W. ALTON JONES CELL SCIENCE CENTER	ZIP CODE 12946			
DOUGLAS, WILLIAM H.....		CULTIVATION OF NORMAL PROSTATIC EPITHELIAL CELLS.....	1N01 CP65762-00	104,251
ORGANIZATION TOTAL	1	104,251		
<b>MOUNT KISCO</b>				
THERMAL INSULATION MANUFACTURERS ASSOCIATION	ZIP CODE 10549			
KOTIN, PAUL.....		DEVELOP DRAFT PROTOCOLS TO TEST MAN-MADE MINERAL FIBERS.....	1N01 CP65736-00	25,000
ORGANIZATION TOTAL	1	25,000		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>NEW HYDE PARK</b>			
<b>NUCLEAR LEASING CORPORATION ZIP CODE 11040</b>			
EHRLICH, MELVIN P.....	FURNISHING A CYTOSCREENER AND TECHNICIAN FOR TESTING.....	3N01 CB53915-02	27,248
ORGANIZATION TOTAL	1 27,248		
<b>NEW YORK</b>			
<b>AMERICAN CANCER SOCIETY ZIP CODE 10017</b>			
MILT, HARRY.....	SUPPORT FOR THIRD WORLD CONFERENCE ON SMOKING.....	3N01 CN35010-05	9,966
ORGANIZATION TOTAL	1 9,966		
<b>AMERICAN HEALTH FOUNDATION ZIP CODE 10019</b>			
WEISBURGER, JOHN H.....	METABOLISM OF CARCINOGENIC COMPOUNDS.....	5N01 CP55639-02	60,117
WILLIAMS, G M.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	3N01 CP55705-03	129,367
WILLIAMS, G M.....	SPECIES-TO-SPECIES CARCINOGENESIS EXTRAPOLATION.....	1N01 ES62130-00	80,313
WYNDER, ERNST L.....	STUDY OF CANCER EPIDEMIOLOGY.....	3N01 CP33208-11	373,151
WYNDER, ERNST L.....	CORRELATION OF EPIDEMIOLOGIC AND METABOLIC PARAMETERS.....	1N01 CP65818-00	156,263
ORGANIZATION TOTAL	5 799,211		
<b>BRISTOL-MYERS COMPANY ZIP CODE 10022</b>			
CLARIDGE, C A.....	PRODUCE NOVEL ANTINEOPLASTIC COMPOUNDS.....	5N01 CM43759-04	272,578
ORGANIZATION TOTAL	1 272,578		
<b>CAROLYN HORTON AND ASSOCIATES ZIP CODE 10011</b>			
NOT APPLICABLE.....	REPAIR, RESTORATION AND CUSTOM REBINDING OF RARE BOOKS.....	2N01 LM54711-01	6,000
ORGANIZATION TOTAL	1 6,000		
<b>CATHOLIC MEDICAL CENTER OF BROOKLYN AND QUEENS ZIP CODE 11432</b>			
MARTIN, DANIEL S.....	DEVELOPMENT OF MODEL SYSTEM FOR THERAPY EVALUATION.....	3N01 CM23703-11	85,839
MARTIN, DANIEL S.....	SCREENING AGAINST SPONTANEOUS MURINE MAMMARY TUMORS.....	1N01 CM67081-00	582,031
ORGANIZATION TOTAL	2 667,870		
<b>CENTER FOR POLICY RESEARCH ZIP CODE 10027</b>			
BEAVER, STEVEN E.....	ANALYZE DETERMINANTS OF RECENT AMERICAN NATALITY TRENDS.....	3N01 HD42854-01	8,768
ORGANIZATION TOTAL	1 8,768		
<b>CITY UNIVERSITY OF NEW YORK—MOUNT SINAI SCHOOL OF MEDICINE ZIP CODE 10029</b>			
ALEDORT, LOUIS M.....	FACTOR VIII INHIBITORS IN HEMOPHILIA.....	3N01 HB53020-02	8,917
AUFSES, ARTHUR H, JR.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	1N01 CM67096-00	143,914
BROWN, EDWIN G.....	DEVELOPING SENSORS FOR CONTINUOUS MONITORING.....	5N01 HR52949-01	86,480
BRUCKNER, HOWARD W.....	THERAPY OF PATIENTS WITH GASTRIC CARCINOMA.....	3N01 CM53841-02	167,350
GREENSPAN, EZRA M.....	STUDY OF CARCINOMA OF THE OVARIES.....	2N01 CM43703-05	37,520
HOLLAND, JAMES F.....	CHEMOIMMUNOTHERAPY OF ACUTE MYELOCYTIC LEUKEMIA.....	2N01 CB43879-01	365,138
HOLLAND, JAMES F.....	STUDY OF ETIOLOGY AND CONTROL OF LEUKEMIA.....	2N01 CP43225-05	748,010
NEFF, MARTIN.....	ANDROGENS FOR TREATING ANEMIA IN CHRONIC HEMODIALYSIS.....	1N01 AM62213-00	220,762
PARONETTO, FIORENZO.....	IMMUNOFLOUORESCENT DETECTION OF ANTIBODIES IN TUMOR CELLS.....	2N01 CB43953-02	90,465
WASSERMAN, LOUIS.....	PROTOTYPE CLINICAL CHEMOTHERAPY PROGRAM.....	1N01 CN65276-00	768,952
YAGR, MELVIN D.....	VIROLOGY STUDIES IN PARKINSON'S DISEASE.....	5N01 NS52309-01	96,364
ORGANIZATION TOTAL	11 2,733,872		
<b>COLUMBIA UNIVERSITY ZIP CODE 10027</b>			
CANFIELD, ROBERT E.....	STUDY OF HUMAN CHORIONIC GONADOTROPIN.....	2N01 HD02251-09	81,394
GREGOR, HARRY P.....	DEVELOPMENT OF POLYELECTROLYTE SYSTEM FOR CAUTERIZATION.....	3N01 HD32797-07	12,916

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
HILAL, SADEK K.....	CLINICAL EVAL. OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY.....	5N01 CB43910-02	111,374
LEONARD, EDWARD F.....	STUDY OF PLATELET REACTIONS ON ARTIFICIAL MATERIALS.....	5N01 HV32910-05	99,975
LO GERFO, PAUL.....	THYROIDITIS AS IMMUNOTHERAPY.....	1N01 CB64048-00	77,435
MARKS, PAUL A.....	REGULATION OF EUKARYOTIC GENE SEQUENCES.....	1N01 CP61008-00	62,782
MELLINS, ROBERT B.....	FOLLOW-UP OF SELECTED PARAMETERS IN INFANTS.....	3N01 HD52856-03	253,135
RIFKIND, RICHARD A.....	ORGANIZATION AND DYNAMICS OF CELL SURFACE MEMBRANE.....	2N01 CB44008-02	55,182
RUSH, DAVID.....	PREVENTION OF PREMATURITY AND DEVELOPMENTAL DISORDERS.....	3N01 HD92180-19	188,492
SPIEGELMAN, SOL.....	ONCOGENIC RNA VIRUSES AND ITS RELATION TO HUMAN CANCER.....	9N01 CP61010-00	1,848,320
WEINSTEIN, I BERNARD.....	DEVELOPMENT OF TISSUE-CULTURE TRANSFORMATION SYSTEM.....	3N01 CP23234-04	251,250
ORGANIZATION TOTAL	11	3,042,255	
<b>COMMUNITY BLOOD COUNCIL OF GREATER NEW YORK ZIP CODE 10021</b>			
PRINCE, ALFRED.....	EVALUATE POLYVALENT HEPATITIS B VACCINE IN CHIMPANZEES.....	1N01 A162500-00	114,389
SZMUNESS, WOLF.....	EPIDEMIOLOGY OF VIRAL HEPATITIS IN HEMODIALYSIS UNITS.....	1N01 A162512-00	312,301
SZMUNESS, WOLF.....	MATERNAL TO INFANT TRANSMISSION OF HEPATITIS B.....	1N01 HB62908-00	39,000
ORGANIZATION TOTAL	3	465,690	
<b>CORNELL UNIVERSITY MEDICAL CENTER ZIP CODE 10021</b>			
ALONSO, DANIEL R.....	QUANTIFICATION OF INFARCT SIZE.....	5N01 HV52985-01	154,239
JAVITT, NORMAN B.....	STUDY OF CONTRACEPTIVE STEROIDS IN THE BABOON.....	5N01 HD22734-11	47,318
KARLIN, DAVID.....	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY62140-00	44,339
POTTS, DOUGLAS G.....	CLINICAL EVAL. OF COMPUTERIZED TRANSAXIAL TOMOGRAPHY.....	2N01 CB43980-02	119,717
SENTERFIT, LAURENCE B.....	TESTING OF SERA FROM MYCOPLASMA PNEUMONIAE VACCINE.....	2N01 A102065-11	10,340
SILVER, RICHARD T.....	SUPPORT FOR CLINICAL CANCER CHEMOTHERAPY PROGRAM.....	2N01 CN35025-05	406,657
WEKSLER, MARC E.....	LYMPHOCYTE AND SERUM IMMUNOGLOBULIN DURING LIFE OF MICE.....	1N01 AG62122-00	42,400
ORGANIZATION TOTAL	7	825,010	
<b>HEALTH INSURANCE PLAN OF GREATER NEW YORK ZIP CODE 10022</b>			
FINK, RAYMOND.....	EVALUATION OF THERMOGRAPHY IN BREAST-CANCER SCREENING.....	3N01 CN35021-04	1,043,041
FINK, RAYMOND.....	STUDY OF VALUE OF MAMMOGRAPHY.....	2N01 CP43278-04	152,235
ORGANIZATION TOTAL	2	1,195,276	
<b>JAMES MACDONALD COMPANY ZIP CODE 10023</b>			
NOT APPLICABLE.....	REPAIR, RESTORATION AND CUSTOM REBINDING OF RARE BOOKS.....	2N01 LM54710-01	8,000
ORGANIZATION TOTAL	1	8,000	
<b>JEWISH HOSPITAL AND MEDICAL CENTER OF BROOKLYN ZIP CODE 11238</b>			
DOSIK, HARVEY.....	CYTOGENETIC STUDY OF VIRAL TRANSFORMATION.....	2N01 CP43251-03	124,950
ORGANIZATION TOTAL	1	124,950	
<b>LONG ISLAND JEWISH-HILLSIDE MEDICAL CENTER ZIP CODE 11040</b>			
CORTES, ENGRACIO P.....	IMMUNOTHERAPY OF SQUAMOUS CELL CARCINOMA OF THE LUNG.....	1N01 CB64064-00	96,009
LIPSITZ, PHILIP.....	STUDY OF PHOTOTHERAPY FOR NEONATAL HYPERBILIRUBINEMIA.....	2N01 HD42821-06	6,660
SAMUEL, PAUL.....	ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52915-02	118,846
ORGANIZATION TOTAL	3	221,515	
<b>MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES ZIP CODE 10021</b>			
BROWN, MARY.....	ONCOLOGY NURSING PROGRAMS IN CANCER CENTERS.....	5N01 CN45123-03	138,917
D'ANGIO, GIULIO J.....	STUDY OF LATE EFFECTS OF CANCER THERAPY.....	3N01 CP23286-06	33,300
FITZGERALD, PATRICK J.....	DEVELOP METHODS FOR DETECTING PANCREATIC CANCER.....	5N01 CB43975-02	186,560
FITZGERALD, PATRICK J.....	SITE OF ORIGIN OF HUMAN PANCREATIC ADENOCARCINOMA.....	2N01 CP43232-01	28,256
HIRSHAUT, YASHAR.....	ACQUISITION OF HUMAN TUMOR SPECIMENS FOR VIRUS STUDIES.....	9N01 CP61038-00	177,875
KRAKOFF, IRWIN H.....	STUDIES OF PATIENTS WITH SOLID DISSEMINATED TUMORS.....	5N01 CM57043-02	339,140
LAUGHLIN, JOHN S.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	3N01 CN45057-03	317,459
LEPLEY, JAMES B.....	TRAINING OF MAXILLOFACIAL PROSTHODONTISTS.....	5N01 CN45048-04	34,967
LIPKIN, MARTIN.....	ANALYSIS OF CELL PROLIFERATION IN FAMILIAL POLYPOSIS.....	3N01 CP43366-04	189,867

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
MELAMED, MYRON R.....	STUDY OF EARLY DETECTION OF CANCER OF THE LUNGS.....	5N01 CW45007-03	587,256
ROBBINS, GUY F.....	DEMONSTRATE CANCER REHABILITATION FACILITIES.....	2N01 CN55223-05	453,480
ROBBINS, GUY F.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CN55224-02	84,530
SHAPIRO, WILLIAM R.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	5N01 CM57019-02	110,589
SHILS, MAURICE E.....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY.....	1N01 CP65829-00	73,791
STEARNS, MAUS W. JR.....	THERAPY OF PATIENTS WITH LARGE BOWEL CARCINOMA.....	5N01 CM53844-03	105,593
ORGANIZATION TOTAL	15	2,861,580	
<b>MONTEFIORE HOSPITAL AND MEDICAL CENTER ZIP CODE 10467</b>			
FISHMAN, JACK.....	FAMILIAL GENETIC PATTERNS—BIOCHEMICAL & PHYSIOLOGICAL.....	2N01 CB44002-02	186,400
HOLLAND, JIMMIE.....	PSYCHOLOGICAL ASPECTS OF BREAST CANCER.....	2N01 CN55214-01	329,964
KOSS, LEOPOLD G.....	EVALUATION OF HAPTEN TREATMENT.....	5N01 CB43963-04	173,732
WEITZMAN, ELLIOT D.....	FOLLOW-UP OF SELECTED PARAMETERS IN INFANTS.....	2N01 HD52855-02	248,103
ORGANIZATION TOTAL	4	938,199	
<b>NEW YORK ACADEMY OF MEDICINE ZIP CODE 10029</b>			
BRANDON, ALFRED N.....	REGIONAL MEDICAL LIBRARY SERVICES—REGION II.....	1N01 LM64722-00	392,448
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY SERVICES.....	3N01 LM14721-09	6,453
ORGANIZATION TOTAL	2	398,901	
<b>NEW YORK ACADEMY OF SCIENCES ZIP CODE 10021</b>			
NOT APPLICABLE.....	CONFERENCE ON AQUATIC POLLUTANTS AND BIOLOGICAL EFFECTS.....	1N01 CP65813-00	38,000
ORGANIZATION TOTAL	1	38,000	
<b>NEW YORK CITY HEALTH SERVICES ADMINISTRATION—PUBLIC HEALTH RESEARCH INSTITUTE OF CITY OF N Y ZIP CODE 10016</b>			
OSLER, ABRAHAM G.....	CHEMICAL CARCINOGENESIS AND IMMUNOLOGY.....	3N01 CP55679-01	78,598
PONS, MARCEL W.....	DETECTION OF RESPIRATORY VIRUS GENOME IN HUMAN TISSUES.....	2N01 AI42543-02	49,315
WARD, GERALD M.....	STUDY OF SLOW VIRUS INFECTIONS OF CNS OF MAN.....	2N01 NS70082-17	74,082
ORGANIZATION TOTAL	3	201,995	
<b>NEW YORK MEDICAL COLLEGE ZIP CODE 10029</b>			
BLACK, MAURICE M.....	STUDY OF IMMUNOLOGICAL MEASUREMENTS.....	2N01 CP33398-04	175,800
GIROLAMO, RITA F.....	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER.....	2N01 CN55249-02	89,842
JAFFE, I A.....	CLINICAL TRIAL OF PENICILLAMINE IN RHEUMATOID ARTHRITIS.....	1N01 AM62217-00	206,350
JOHNSON, ALAN J.....	REMOVAL OF INFECTIOUS AGENTS OF HEPATITIS FROM BLOOD.....	1N01 HB62929-00	60,190
PULLMAN, IRA.....	APATITIC CRYSTALS AND MINERAL-PROTEIN COMPLEXES.....	2N01 DE32418-03	79,811
ROSENKRANZ, HERBERT S.....	TIER ONE MICROSOMAL ASSAY FOR MUTAGENESIS.....	1N01 ES62124-00	113,481
ORGANIZATION TOTAL	6	725,474	
<b>NEW YORK UNIVERSITY ZIP CODE 10003</b>			
ADISMAN, I KENNETH.....	TRAINING PROGRAMS FOR MAXILLOFACIAL PROSTHODONTISTS.....	3N01 CN45113-02	53,785
BASCH, ROSS S.....	STUDY OF MECHANISMS OF LYMPHOID CELL DIFFERENTIATION.....	2N01 CB43927-02	57,144
DILLER, LEONARD.....	EARLY INTERVENTION IN REHABILITATION OF CANCER PATIENTS.....	5N01 CN55188-02	193,042
FRIEDMAN-KIEN, ALVIN E.....	ANTIVIRAL EVALUATION IN VIRAL DISEASE MODELS.....	2N01 AI02131-09	103,476
GOLDSTEIN, GIDEON.....	CHEMICAL CHARACTERIZATION OF PURIFIED THYMIC PRODUCTS.....	2N01 CB53868-03	214,442
JOHNSON, ALAN J.....	STUDY OF NEW METHODS OF PLASMA FRACTIONATION.....	3N01 HB32971-05	704,761
KUSCHNER, MARVIN.....	STUDY OF PULMONARY CARCINOGENESIS.....	3N01 CP33260-06	490,355
LERMAN, STEPHEN P.....	IMMUNOTHERAPY IN FIBROSARCOMAS OF CHICKENS.....	1N01 CB64043-00	109,930
MOOR-JANKOWSKI, JAN.....	NONHUMAN PRIMATE COLONIES FOR NIH RESEARCH.....	3N01 RR42184-02	151,010
MOOR-JANKOWSKI, JAN.....	NONHUMAN PRIMATE COLONIES FOR NIH RESEARCH PROGRAMS.....	1N01 RR62132-00	330,179
POST, JOSEPH.....	CELL KINETICS OF BREAST CANCER.....	2N01 CB33903-03	120,000
RANSOHOFF, JOSEPH.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM67059-00	91,610
RANSOHOFF, JOSEPH.....	STUDY OF BRAIN TUMOR CHEMOTHERAPY.....	3N01 CM71174-17	3,833
VAN DUUREN, BENJAMIN L.....	CARCINOGENESIS PRINCIPLES OF PROCESSED TOBACCO.....	2N01 CP33241-04	70,407
VILCEK, JAN T.....	METHODS OF PRODUCING HUMAN INTERFERON.....	2N01 AI02169-11	100,938
ORGANIZATION TOTAL	15	2,794,912	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
<b>PRESBYTERIAN HOSPITAL IN NEW YORK      ZIP CODE 10032</b>			
HILAL, SADEK K.....	COMPUTERIZED TRANSAXIAL X-RAY RECONSTRUCTION SYSTEM.....	5N01 CB53974-01	110,245
ORGANIZATION TOTAL	1	110,245	
<b>ROCKEFELLER UNIVERSITY      ZIP CODE 10021</b>			
CERAMI, ANTHONY.....	TEST AND EVALUATE IRON CHELATOR COMPOUND 2, 3-DHB.....	5N01 AM52202-01	50,000
CERAMI, ANTHONY.....	STUDY UREA IN THE THERAPY OF UREMIA.....	2N01 HB12371-09	122,000
GOTSCHLICH, EMIL C.....	STUDIES ON MENINGOCOCCAL POLYSACCHARIDE VACCINES.....	2N01 AI12502-07	34,199
ORGANIZATION TOTAL	3	206,199	
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH      ZIP CODE 10021</b>			
BENDICH, AARON.....	EFFECTS OF NUCLEIC ACID PREPARATIONS ON MAMMARY CANCERS.....	2N01 CB43904-02	85,000
EISINGER, MAGDALENA.....	STUDIES OF HUMAN WART VIRUS IN TISSUE.....	1N01 CP61022-00	99,492
FOGH, JORGEN.....	ISOLATION AND TISSUE CULTURE OF HUMAN TUMOR CELLS.....	2N01 CB43854-02	432,054
HIRSHAUT, YASHAR.....	HUMAN TUMOR ASSOCIATED ANTIGENS AND ANTIBODIES.....	2N01 CB53942-01	84,973
HIRSHAUT, YASHAR.....	EFFORTS OF IMMUNE STIMULANTS ON HUMAN IMMUNE RESPONSE.....	2N01 CB53970-01	136,164
LLOYD, KENNETH O.....	TUMOR OR ORGAN-ANTIGENS-DIAGNOSTIC APPLICATION.....	1N01 CB64021-00	84,942
OETTGEN, HERBERT F.....	IMMUNOTHERAPY WITH TUMOR PREPARATIONS IN MAN.....	1N01 CB64062-00	119,049
OLD, LLOYD J.....	THERAPY IN MICE WITH TUMOR NECROSIS FACTOR (TNF).....	1N01 CB64051-00	78,634
PINSKY, CARL M.....	C. PARVUM AS A THERAPEUTIC ADJUNCT TO BREAST CARCINOMA.....	2N01 CB53873-01	100,627
PRENSKY, WOLF.....	MOLECULAR HYBRIDIZATION STUDIES WITH ACTIVE RNA.....	5N01 CM53820-02	78,903
ROSEN, PAUL P.....	EPIDEMIOLOGY OF MEDULLARY AND LOBULAR BREAST CANCER.....	1N01 CB63997-00	76,000
SARKAR, NURUL H.....	VIRAL INVOLVEMENT OF MAMMARY CARCINOMA.....	1N01 CP61053-00	150,000
SCHWARTZ, MORTON K.....	BIOCHEMICAL ANALYSIS OF HUMAN BREAST CYST FLUID.....	3N01 CB53853-01	193,021
SHIKU, HIROSHI.....	CELLS INVOLVED IN THE IMMUNE RESPONSE TO TUMORS.....	1N01 CB64031-00	68,940
STUTMAN, OSIAS.....	CELL-MEDIATED CYTOTOXICITY IN TUMOR IMMUNITY.....	2N01 CB53894-01	61,800
WANEBO, HAROLD J.....	LEYAM AS THERAPEUTIC ADJUNCT IN SQUAMOUS CARCINOMA.....	2N01 CB53875-01	88,782
ORGANIZATION TOTAL	16	1,938,381	
<b>STATE UNIVERSITY OF NEW YORK—DOWNSTATE MEDICAL CENTER      ZIP CODE 11203</b>			
BROWN, AUDREY K.....	PHOTOTHERAPY FOR NEONATAL HYPERBILIRUBINEMIA.....	2N01 HD42819-07	10,536
CARTER, ANNE C.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45139-03	357,500
CRAIG, JOHN P.....	ESTABLISH LAB FOR TITRATION OF CHOLERA SKIN TOXINS.....	2N01 AI02091-10	86,295
DAMADIAN, RAYMOND V.....	NMR STUDIES IN NEOPLASTIC & NON-NEOPLASTIC TISSUES.....	2N01 CB43979-03	25,000
FRIEDMAN, ELI A.....	DETERMINE CLINICAL EFFICACY OF OXIDIZED STARCH IN UREMIA.....	2N01 AM42206-03	58,190
FRIEDMAN, ELI A.....	CLINICAL EVALUATION OF COMPACT TRAVEL HEMODIALYZER.....	1N01 AM62203-00	49,520
KOUNTZ, SAMUEL L.....	HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI42551-02	132,690
SCHIFFMAN, GERALD.....	OPERATION OF PNEUMOCOCCAL POLYSACCHARIDE REFERENCE LAB.....	2N01 AI42541-02	83,459
TOLLES, WALTER E.....	CELL PREPARATIONS OF GYNECOLOGIC CYTOPATHOLOGY SPECIMENS.....	2N01 CB43955-04	79,024
ORGANIZATION TOTAL	9	882,214	
<b>STELLA AND CHARLES GUTTMAN BREAST DIAGNOSTIC INSTITUTE      ZIP CODE 10016</b>			
STRAX, PHILIP.....	XEROMAMMOGRAPHY VERSUS FILM MAMMOGRAPHY.....	2N01 CB44012-02	60,450
STRAX, PHILIP.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55306-01	399,985
ORGANIZATION TOTAL	2	460,435	
<b>TEACHERS COLLEGE      ZIP CODE 10027</b>			
SUTTON-SMITH, BRIAN.....	FAMILY STRUCTURE AND MATERNAL STATE IN CHILD DEVELOPMENT.....	1N01 HD62820-00	123,651
ORGANIZATION TOTAL	1	123,651	
<b>UNITED ENGINEERING TRUSTEES      ZIP CODE 10017</b>			
MULLANEY, PAUL F.....	ENGINEERING FOUNDATION CONFERENCE ON AUTOMATED CYTOLOGY.....	1N01 CB64078-00	26,200
ORGANIZATION TOTAL	1	26,200	
<b>VISION ASSOCIATES      ZIP CODE 10022</b>			
BOBKER, LEE R.....	PRODUCE LIFE THREATENING EMERGENCY RECOGNITION UNITS.....	4N01 LM64747-00	119,797

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NEW YORK—Continued</b>			
ORGANIZATION TOTAL	1	119,797	
<b>YESHIVA UNIVERSITY ZIP CODE 10033</b>			
AUGUST, J THOMAS	STUDY OF MOLECULAR BASIS OF VIRAL CARCINOGENESIS	3N01 CP33311-06	207,220
BAUM, GILBERT	ULTRASOUND MAMMOGRAPHY	2N01 CB23872-09	40,000
BLAUFOX, MORTON D	STUDY OF HYPERTENSION THERAPY	3N01 HV22931-10	56,986
BLOOM, BARRY R	CHANGES IN CELL MEDIATED IMMUNITY IN LEPROSY PATIENTS	1N01 AI62501-00	32,067
GROLLMAN, ARTHUR P	ANTITUMOR DRUGS AND EFFECTS ON PROTEIN SYNTHESIS	2N01 CM43787-03	98,896
LILLY, FRANK	FACTORS IN VIRAL LEUKEMOGENESIS	2N01 CP33249-04	268,444
MARCUS, DONALD M	PURIFICATION OF AN ANTIGEN	2N01 CB23871-07	104,000
NAGEL, RONALD L	MOLECULAR AND CELLULAR STUDIES ON SICKLE CELL ANEMIA	2N01 HB22920-08	162,300
ROMNEY, SEYMOUR L	CORRELATION OF EPIDEMIOLOGIC AND METABOLIC PARAMETERS	1N01 CP65788-00	143,111
SOEIRO, RUY	HOST RESTRICTION OF FRIEND LEUKEMIA VIRUS	2N01 CP43380-04	49,636
ORGANIZATION TOTAL	10	1,162,660	
<b>ROCHESTER</b>			
<b>EASTMAN DENTAL CENTER ZIP CODE 14605</b>			
CURZON, MARTIN E	TRACE ELEMENT COMPOSITION OF HUMAN DENTAL ENAMEL	1N01 DE62487-00	9,536
ORGANIZATION TOTAL	1	9,536	
<b>UNIVERSITY OF ROCHESTER ZIP CODE 14627</b>			
BAUM, JOHN	US-USSR COOPERATIVE PROGRAM IN RHEUMATOLOGY	1N01 AM62205-00	41,182
DOTY, ROBERT W	STUDY OF FEASIBILITY OF A SENSORY PROSTHESIS	2N01 NS02279-06	81,587
DOUGLAS, R GORDON, JR	CLINICAL EVALUATION OF RESPIRATORY VACCINES	2N01 AI22503-05	290,863
FOWLER, EDWARD H	PHARMACOPATHOLOGIC EFFECTS OF MPA	5N01 HD32705-08	195,902
GRAMIAK, RAYMOND	NONINVASIVE ASSESSMENT OF PULMONARY HYPERTENSION	1N01 HR62918-00	112,790
MAY, ALLYN G	HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION	2N01 AI22539-09	15,248
THOMPSON, DEAN A	GUSTATORY EVALUATION OF CANCER PATIENTS	1N01 CP65833-00	54,678
WHEELLESS, LEON L, JR	STUDY A SLIT-SCAN TECHNIQUE FOR CANCER DETECTION	2N01 CB33862-04	333,049
WHEELLESS, LEON L, JR	FLUORESCENCE IN FEMALE GENITAL TRACT AND OTHER STUDIES	5N01 CB53930-01	204,580
ORGANIZATION TOTAL	9	1,329,879	
<b>SARANAC LAKE</b>			
<b>TRUDEAU INSTITUTE ZIP CODE 12983</b>			
MACKANESS, GEORGE B	STUDY OF MYCOBACTERIA AS INHIBITORS OF TUMOR CELL GROWTH	2N01 CP23221-09	185,001
MILLER, THOMAS E	PRODUCTION OF AN IMPROVED BCG VACCINE	2N01 CB53885-01	54,952
ORGANIZATION TOTAL	2	239,953	
<b>SCHENECTADY</b>			
<b>GENERAL ELECTRIC COMPANY—CORPORATE RESEARCH AND DEVELOPMENT CENTER ZIP CODE 12301</b>			
BROWN, JOHN F	STUDY OF ELASTIN AS A BIOMATERIAL	2N01 HV42981-03	112,314
FISKE, M D	STUDY OF PROBLEMS IN ONCOLOGY	3N01 CP33231-07	85,440
GRIFFIN, PAUL M	ULTRASONIC IMAGING SYSTEM	2N01 HV52966-01	74,840
ORGANIZATION TOTAL	3	272,594	
<b>STONY BROOK</b>			
<b>STATE UNIVERSITY OF NEW YORK AT STONY BROOK ZIP CODE 11794</b>			
LANE, BERNARD P	STUDY OF CARCINOGENESIS IN ORGAN CULTURE	2N01 CP33361-04	162,387
LAUTERBUR, PAUL C	NMR ZENGMATOGRAPHY IN ATHEROSCLEROSIS	5N01 HV52970-01	28,450
LERNER, RAYMOND C	OUTCOME OF PREGNANCY FOLLOWING PREVIOUS INDUCED ABORTION	1N01 HD62803-00	156,000
MILLER, FREDERICK	PHYSIOLOGIC SUPPRESSION OF CELL-MEDIATED IMMUNE RESPONSE	3N01 AI42533-02	41,940

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract		Contract No.	Dollars
NEW YORK—Continued				
RIPA, LOUIS W.....	COMMUNITY CRIES PREVENTION DEMONSTRATION PROJECTS.....	5N01 DE52460-02	37,367	
RIPA, LOUIS W.....	EFFECT ON CRIES OF XYLITOL AND SORBITAL-SWEETENED GUM.....	1N01 DE62489-00	61,930	
ORGANIZATION TOTAL	6	488,074		
SYRACUSE				
STATE UNIVERSITY OF NEW YORK—UPSTATE MEDICAL CENTER		ZIP CODE 13210		
HENRY, JOHN B.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI52513-02	17,777	
STEINSCHNEIDER, ALFRED.....	STUDYING SLEEP APNEA AND SIDS: DEVELOPMENTAL CORRELATES.....	2N01 HD52853-01	88,105	
THOMAS, F DEAVER.....	INSTRUCTION TO REMEDIATE DEFICIENCIES IN MATHEMATICS.....	3N01 LM54731-02	2,756	
ORGANIZATION TOTAL	3	108,638		
TROY				
RENSSELAER POLYTECHNIC INSTITUTE		ZIP CODE 12181		
ZELMAN, ALLEN.....	AUGMENTATION OF PERITONEAL DIALYSIS EFFICIENCY.....	1N01 AM62204-00	44,633	
ORGANIZATION TOTAL	1	44,633		
VALHALLA				
NEW YORK MEDICAL COLLEGE		ZIP CODE 10595		
ROSENKRANZ, HERBERT S.....	MUTAGENESIS SYSTEMS FOR CARCINOGENESIS SCREENING.....	1N01 CP65855-00	94,647	
ORGANIZATION TOTAL	1	94,647		
STATE TOTAL	230	33,783,733		
NORTH CAROLINA				
CHAPEL HILL				
NORTH CAROLINA HEART ASSOCIATION		ZIP CODE 27514		
HIRSCHAUER, PAUL E.....	MODEL COMPREHENSIVE STROKE CENTER PROGRAM.....	1N01 NS62347-00	99,462	
ORGANIZATION TOTAL	1	99,462		
UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL		ZIP CODE 27514		
CRAIGE, ERNEST.....	NONINVASIVE ASSESSMENT OF PULMONARY HYPERTENSION.....	1N01 HR62916-00	115,700	
DENNY, FLOYD W.....	CLINICAL EVALUATION OF RESPIRATORY VACCINES.....	3N01 AI22505-05	34,375	
GRISHAM, JOE W.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	5N01 CP55707-01	95,813	
MC MILLAN, CAMPBELL W.....	FACTOR VIII INHIBITORS IN HEMOPHILIA.....	3N01 HB53016-02	2,259	
PAGANO, JOSEPH S.....	MOLECULAR STUDIES OF HERPES-TYPE VIRUSES.....	3N01 CP33336-04	29,902	
PEARLMAN, WILLIAM H.....	MAMMARY GLAND RESPONSIVENESS TO MULTIPLE HORMONES.....	2N01 CB53905-01	89,400	
PROCTOR, H J.....	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY.....	3N01 HR42920-02	151,572	
SUCHINDRAN, C M.....	CONSEQUENCES OF ADOLESCENT PREGNANCY AND CHILDBEARING.....	1N01 HD62859-00	61,866	
WILLIAMS, O DALE.....	STUDY OF HYPERLIPOPROTEINEMIA.....	2N01 HV12243-07	4,918,900	
ORGANIZATION TOTAL	9	5,499,787		
DURHAM				
DUKE UNIVERSITY		ZIP CODE 27706		
BOLOGNESI, DANI P.....	STUDIES ON EXPRESSION OF RNA TUMOR VIRUS GENOME.....	2N01 CP33308-05	474,240	
DEUBNER, DAVID C.....	EPIDEMIOLOGY OF PRE- AND POST-MENOPAUSAL BREAST CANCER.....	1N01 CB63996-00	140,950	
ESTES, HARVEY E, JR.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CN55234-01	93,734	
HEYMAN, ALBERT.....	DETECTION OF TIA IN AN ELDERLY COMMUNITY.....	2N01 NS42337-03	85,717	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NORTH CAROLINA—Continued</b>			
LESTER, RICHARD G.....	EARLY DETECTION OF CANCER OF THE BREAST.....	2N01 CN45064-02	227,715
LYNN, WILLIAM S.....	COMPOSITION OF RESPIRATORY MUCUS.....	2N01 HR52955-02	58,630
MAHALEY, MOSES S, JR.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM67010-00	106,941
MC CARTY, KENNETH S.....	PROTEIN NUCLEIC ACID INTERACTIONS.....	2N01 CB23857-04	45,700
O'FOGHUDDHA, FEARGUS.....	XEROMAMMOGRAPHY VERSUS FILM MAMMOGRAPHY.....	2N01 CB44011-02	82,600
PALMER, RICHARD A.....	IRON CHELATING AGENTS IN TREATMENT OF COOLEY'S ANEMIA.....	3N01 AM42224-02	28,951
PRATT, PHILIP.....	TEST LUNG TISSUE IN ADULT RESPIRATORY DISTRESS SYNDROME.....	5N01 HR52946-02	55,000
ROSSE, WENDELL F.....	COOPERATIVE STUDY OF SICKLE CELL DISEASE.....	3N01 HB33019-04	4,800
SNYDERMAN, RALPH.....	STUDY OF PERIPHERAL BLOOD MONOCYTES.....	2N01 CP33313-03	117,492
WARD, FRANCES E.....	NCI HISTOCOMPATIBILITY TESTING CENTER.....	2N01 CB53890-01	234,192
WELLS, SAMUEL A.....	SCREENING RELATIVES OF PATIENTS WITH MEDULLARY CARCINOMA.....	1N01 CB63994-00	101,073
ORGANIZATION TOTAL	15	1,857,735	
<b>RESEARCH TRIANGLE PARK</b>			
<b>BECTON, DICKINSON AND COMPANY—RESEARCH CENTER ZIP CODE 27709</b>			
CAVENDER, F L.....	EFFECT OF EXPOSURE TO AIRBORNE ENVIRONMENTAL AGENTS.....	5N01 ES42164-04	595,096
ORGANIZATION TOTAL	1	595,096	
<b>RESEARCH TRIANGLE INSTITUTE ZIP CODE 27709</b>			
BRYAN, FRED A.....	OPERATE MEDICAL REGISTRY OF PATIENTS ON CHRONIC DIALYSIS.....	3N01 AM71387-19	19,241
COOK, CLARENCE E.....	CHEMICAL CONTRACEPTIVES FOR THE MALE AND FEMALE.....	1N01 HD62814-00	365,960
HORVITZ, DANIEL G.....	HEAD AND SPINAL CORD INJURY.....	3N01 NS42334-05	62,738
KEPLER, J A.....	PREPARATION OF RADIOLABELED MATERIALS.....	1N01 CM67121-00	207,005
KIMMEL, GARY L.....	TERATOGENIC POTENTIAL OF ENVIRONMENTAL AGENTS.....	1N01 ES62127-00	255,026
KOO, HELEN P.....	RELATION BETWEEN FERTILITY, MARRIAGE AND REMARRIAGE.....	3N01 HD52838-01	79,529
PITT, COLIN G.....	IRON CHELATING AGENTS IN TREATMENT OF COOLEY'S ANEMIA.....	5N01 AM42225-03	39,516
PITT, COLIN G.....	SYNTHESIZE PROGESTATIONAL AND ANTIPROGESTATIONAL AGENTS.....	1N01 HD62854-00	47,500
POOLE, K W.....	EVALUATE ANTENATAL STEROID THERAPY IN NEONATAL RDS.....	1N01 HR62948-00	44,290
WALL, MONROE E.....	ISOLATION OF ANTINEOPLASTIC AGENTS FROM PLANTS.....	1N01 CM67089-00	181,309
WALL, MONROE E.....	BIODEGRADABLE POLYMERS AND CONTRACEPTIVE DRUGS.....	5N01 HD32741-05	224,082
WILLIAMS, R J.....	SURVEYS OF PATIENT ATTITUDES ABOUT CANCER CONTROL.....	1N01 CN65213-00	40,400
YASUDA, HIROSUGU K.....	STUDY OF ELECTRODELESS GLOW DISCHARGE & POLYMER SURFACES.....	3N01 HV32913-07	100,750
ORGANIZATION TOTAL	13	1,667,346	
<b>WINSTON-SALEM</b>			
<b>WAKE FOREST UNIVERSITY ZIP CODE 27109</b>			
ALEXANDER, EBEN, JR.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM67054-00	38,564
CLARKSON, THOMAS B.....	NONHUMAN PRIMATE MODELS OF ATHEROSCLEROSIS.....	2N01 HV53029-02	205,060
ORGANIZATION TOTAL	2	243,624	
STATE TOTAL	41	9,963,050	
<b>NORTH DAKOTA</b>			
<b>BISMARCK</b>			
<b>NORTH DAKOTA STATE DEPARTMENT OF HEALTH ZIP CODE 58505</b>			
O'LEARY, THOMAS J.....	IMPLEMENTATION FOR A CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN65370-00	175,382
ORGANIZATION TOTAL	1	175,382	
STATE TOTAL	1	175,382	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OHIO</b>			
<b>AKRON</b>			
<b>CHILDREN'S HOSPITAL OF AKRON</b>	<b>ZIP CODE 44308</b>		
FREEMAN, AARON E.....	CARCINOGENESIS SCREENING USING CELL CULTURE ASSAYS.....	5N01 CP55706-01	218,860
ORGANIZATION TOTAL	1	218,860	
<b>UNIVERSITY OF AKRON</b>	<b>ZIP CODE 44325</b>		
WILLIAMS, GREGORY.....	STUDY SCIENTIFIC MANPOWER FOR POPULATION RESEARCH.....	1N01 HD62850-00	42,682
ORGANIZATION TOTAL	1	42,682	
<b>BEDFORD</b>			
<b>BEN VENUE LABORATORIES</b>	<b>ZIP CODE 44148</b>		
WICKES, GLENN.....	PRODUCE CLINICAL DOSES OF ANTITUMOR AGENTS.....	5N01 CM53811-04	683,668
WICKES, GLENN.....	DEVELOP AND PRODUCE CLINICAL DOSES OF ANTITUMOR AGENTS.....	1N01 CM67109-00	650,000
ORGANIZATION TOTAL	2	1,333,668	
<b>BOWLING GREEN</b>			
<b>BOWLING GREEN STATE UNIVERSITY</b>	<b>ZIP CODE 43404</b>		
NEAL, ARTHUR G.....	ALIENATION AND FERTILITY CONTROL IN EARLY MARRIAGE YEARS.....	1N01 HD62833-00	142,361
ORGANIZATION TOTAL	1	142,361	
<b>CINCINNATI</b>			
<b>CHILDREN'S HOSPITAL MEDICAL CENTER</b>	<b>ZIP CODE 45229</b>		
LAMPKIN, BEATRICE C.....	CLINICAL CHEMOTHERAPY PROGRAM IN CANCER CONTROL.....	2N01 CN35015-05	55,983
ORGANIZATION TOTAL	1	55,983	
<b>UNIVERSITY OF CINCINNATI</b>	<b>ZIP CODE 45221</b>		
BUNCHER, CHARLES R.....	STATISTICAL SURVEILLANCE OF LUNG CANCER PROJECTS.....	5N01 CB43868-02	195,710
HESS, EVELYN V.....	AUTOIMMUNE PHENOMENA AND MECHANISMS IN HUMAN VASECTOMY.....	2N01 HD32709-08	135,558
KASHYAP, M L.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV22914-06	1,954,880
MOSKOWITZ, MYRON.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55310-01	655,107
OLINGER, CHARLES P.....	ULTRASONIC INSTRUMENTATION FOR ATHEROSCLEROSIS DETECTION.....	5N01 HV52964-01	291,608
ROMHILT, DONALD W.....	CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52930-03	90,535
SUTHERLAND, JAMES M.....	STUDY OF NEONATAL HYPERBILIRUBINEMIA.....	2N01 HD42818-08	43,540
ORGANIZATION TOTAL	7	3,366,938	
<b>CLEVELAND</b>			
<b>CANCER CENTER, INC.</b>	<b>ZIP CODE 44106</b>		
FREEHAFFER, ALVIN.....	DEVELOP AND IMPLEMENT AT-HOME REHABILITATION PROGRAMS.....	1N01 CN65302-00	262,475
ORGANIZATION TOTAL	1	262,475	
<b>CASE WESTERN RESERVE UNIVERSITY</b>	<b>ZIP CODE 44106</b>		
EPSTEIN, SAMUEL S.....	ENHANCED INDUCTION OF PANCREATIC ADENOCARCINOMA.....	3N01 CP23284-05	51,124
HOUSER, HAROLD B.....	DIABETES MELLITUS IN THE GILA RIVER INDIAN COMMUNITY.....	1N01 AM62221-00	46,530
HUBAY, CHARLES A.....	THERAPY OF CARCINOMA OF BREAST.....	2N01 CB43990-05	200,000
MORTIMER, JOHN T.....	STUDY OF INTRAMUSCULAR STIMULATION OF PARALYZED MUSCLE.....	5N01 NS22314-04	206,889
PEARSON, OLOF H.....	ROLE OF PROLACTIN IN BREAST CANCER.....	2N01 CB23859-04	83,600
POMERANZ, JEROME R.....	STUDY OF IMMUNOLOGY.....	3N01 CP43354-04	125,924
ROBBINS, FREDERICK C.....	STUDY OF CANCER SUBJECTS INOCULATED WITH SV40 VIRUS.....	2N01 CP43201-05	15,621

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>OHIO—Continued</b>				
ORGANIZATION TOTAL	7	729,688		
<b>CLEVELAND CLINIC HOSPITAL ZIP CODE 44106</b>				
BRAUN, WILLIAM E.....		HISTOCOMPATIBILITY-MATCHING IN RENAL TRANSPLANTATION .....	2N01 A122536-04	27,500
BRAUN, WILLIAM E.....		TYPING OF HUMAN TISSUES.....	2N01 A181298-13	119,744
NOSE, YUKIHIKO .....		PREPARATION OF BIOLOGICAL TEST SPECIMENS AND BLOOD PUMPS .....	2N01 HV32914-06	49,667
NOSE, YUKIHIKO .....		DEVELOPMENT AND EVALUATION OF CARDIAC PROSTHESES .....	3N01 HV42960-03	340,752
ORGANIZATION TOTAL	4	537,663		
<b>CUYAHOGA COUNTY HOSPITALS—CLEVELAND METROPOLITAN GENERAL HOSPITAL ZIP CODE 44109</b>				
NOT APPLICABLE .....		SUPPORT AND MAINTAIN A CBA/H-T6T6 MOUSE COLONY .....	1N01 CP65840-00	2,190
ORGANIZATION TOTAL	1	2,190		
<b>UNIVERSITY HOSPITALS OF CLEVELAND ZIP CODE 44106</b>				
GROSS, SAMUEL .....		SUPPLY PEDIATRIC SPECIMENS FROM NEOPLASTIC DISEASES .....	1N01 CP61007-00	30,000
ORGANIZATION TOTAL	1	30,000		
<b>COLUMBUS</b>				
<b>AMERICAN CHEMICAL SOCIETY—CHEMICAL ABSTRACTS SERVICE ZIP CODE 43202</b>				
BAKER, DALE B .....		REGISTRY NUMBERS FOR IDENTIFICATION OF CHEMICALS .....	1N01 CP65798-00	15,467
BROWN, CARTER N.....		CHEMICAL ABSTRACTS SERVICE REGISTRY-BASED SERVICES.....	2N01 LM54739-02	43,255
SEALS, JAMES V .....		DEVELOPMENT OF SYSTEM FOR IDENTIFYING DRUGS .....	2N01 CM43722-03	452,000
ORGANIZATION TOTAL	3	510,722		
<b>BATTELLE MEMORIAL INSTITUTE ZIP CODE 43201</b>				
FOLK, ROGER M.....		STUDY OF TOXICOLOGY OF COMPOUNDS.....	5N01 CM43746-12	3,509,136
GARDNER, DAVID L.....		STUDY OF INTRAUTERINE MICROCAPSULES.....	3N01 HD12230-06	1,300
LEININGER, ROBERT I.....		STUDY OF IDMAC/HEPARIN AND TCMAC/HEPARIN COMPLEX.....	2N01 HV32918-06	53,398
LEININGER, ROBERT I.....		CHARACTERIZE RESEARCH RESULTING IN CLINICAL ADVANCES.....	1N01 OD62125-00	48,050
OVEJERA, ARTEMIO.....		SCREENING COMPOUNDS USING HUMAN TUMORS IN ATHYMIC MICE .....	1N01 CM67099-00	428,842
SIMON, R.....		DEVELOP AND IMPLEMENT THE LABORATORY ANIMAL DATA BANK.....	5N01 LM54747-02	492,809
ORGANIZATION TOTAL	6	4,533,535		
<b>COLUMBUS HEALTH DEPARTMENT ZIP CODE 43215</b>				
MACKENZIE, AILEEN L.....		CERVICAL CANCER SCREENING PROGRAM .....	5N01 CN45079-03	298,731
ORGANIZATION TOTAL	1	298,731		
<b>NORTH AMERICAN PHILIPS CORPORATION—PHILIPS ROXANE LABORATORIES ZIP CODE 43215</b>				
EBERT, WILLIAM R.....		PREPARE ORAL DOSAGE FORMS OF INVESTIGATIONAL DRUGS .....	3N01 CM12139-08	40,000
MARINE, MICHAEL D.....		DEVELOPMENT AND PRODUCTION OF SOLID ORAL DOSE FORMS.....	1N01 CM67053-00	119,753
ORGANIZATION TOTAL	2	159,753		
<b>OHIO STATE UNIVERSITY ZIP CODE 43210</b>				
BALCERZAK, STANLEY P.....		DEVELOPMENT OF THERAPY FOR SICKLE CELL DISEASE.....	2N01 HB22922-05	88,063
FRITZ, EDNA L.....		ONCOLOGY NURSING PROGRAMS IN CANCER CENTERS.....	5N01 CN45128-02	61,999
HORTON, DEREK.....		FRAUDULENT SUGARS RELATED TO DAUNOSAMINE.....	5N01 CM57015-01	64,327
HUDSDETH, DE LAYNE.....		REGIONAL EDUCATIONAL CENTER .....	1N01 LM64715-00	165,371
HUGHES, JOHN H.....		ESTABLISH VIRAL REAGENT TESTING LABORATORY.....	1N01 A162513-00	15,208
HUNT, WILLIAM E.....		THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM67060-00	46,772
KING, GERALD W.....		QUANTITATIVE ASSAYS OF MONOCYTE-MACROPHAGE FUNCTION.....	2N01 CB53936-01	80,622
LO BUGLIO, ALBERT.....		STUDY OF TRANSFER-FACTOR IMMUNOTHERAPY .....	2N01 CB43878-02	89,265
MALSPEIS, LOUIS.....		CLINICAL PHARMACOLOGY OF POTENTIAL ANTICANCER AGENTS.....	2N01 CM53828-01	108,994
NEWMAN, MELVIN S.....		PREPARATION OF POLYMERS CONTAINING CARCINOGENIC MOIETIES.....	5N01 CP43248-03	28,160
OLSEN, RICHARD G.....		IMMUNOBIOLOGIC RESPONSES TO ONCORNAVIRUSES.....	2N01 CP53571-01	220,823

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OHIO—Continued</b>			
ROSEN, SAMUEL C .....	EFFICACY OF ENZYME-FREE ANTIGENS IN ANTICARIES VACCINES .....	5N01 DE52450-05	88,276
ROSEN, SAMUEL C .....	DETERMINE COMPOSITION OF PLAQUE .....	5N01 DE52451-01	127,262
YOHN, DAVID S .....	INTERACTION BETWEEN CHEMICAL AND VIRAL CARCINOGENS .....	3N01 CP43276-03	209,876
ZWILLING, BRUCE S .....	CHEMICAL CARCINOGENESIS AND IMMUNITY .....	3N01 CP53329-02	221,009
ORGANIZATION TOTAL	15 1,616,027		
<b>DAYTON</b>			
<b>MONSANTO COMPANY—DAYTON LABORATORY ZIP CODE 45418</b>			
ELLARD, JAMES A .....	LABORATORY SUPPORT FOR RESYNTHESIS OF DRUGS & CHEMICALS .....	3N01 CM33709-07	1,192,835
ELLARD, JAMES A .....	PRODUCTION OF BULK CHEMICALS AND DRUGS .....	1N01 CM67046-00	672,017
YANKO, WILLIAM H .....	PREPARATION OF RADIOACTIVE LABELED MATERIALS .....	5N01 CM23715-05	178,695
ORGANIZATION TOTAL	3 2,043,547		
<b>WRIGHT STATE UNIVERSITY ZIP CODE 45431</b>			
KEZDI, PAUL .....	SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE .....	2N01 HV33108-04	1,415,650
KEZDI, PAUL .....	STUDIES IN ISCHEMIC MYOCARDIUM AND INFARCT SIZE .....	5N01 HV53005-02	70,770
ORGANIZATION TOTAL	2 1,486,420		
<b>TOLEDO</b>			
<b>MEDICAL COLLEGE OF OHIO AT TOLEDO ZIP CODE 43614</b>			
LEIGHTON, RICHARD F .....	ISCHEMIC SIZE, INFARCTED, HEALING & SCARRED MYOCARDIUM .....	5N01 HV52987-01	228,564
SOLOFF, MELVYN S .....	IDENTIFICATION OF MAMMARY TISSUE .....	1N01 CB63983-00	130,000
ORGANIZATION TOTAL	2 358,564		
STATE TOTAL	61 17,729,807		
<b>OKLAHOMA</b>			
<b>ADA</b>			
<b>VALLEY VIEW HOSPITAL ZIP CODE 74820</b>			
TROSKA, JOE .....	CLINICAL ONCOLOGY PROGRAM .....	1N01 CN65295-00	50,561
ORGANIZATION TOTAL	1 50,561		
<b>NORMAN</b>			
<b>UNIVERSITY OF OKLAHOMA ZIP CODE 73069</b>			
WEINHEIMER, ALFRED J .....	ISOLATION OF ANIMAL AND INSECT ANTINEOPLASTIC AGENTS .....	1N01 CM67108-00	92,427
ORGANIZATION TOTAL	1 92,427		
<b>OKLAHOMA CITY</b>			
<b>OKLAHOMA MEDICAL RESEARCH FOUNDATION ZIP CODE 73104</b>			
CARUBELLI, RAOUL .....	COMPOSITION OF RESPIRATORY MUCUS .....	5N01 HR52956-01	28,000
HABERMAN, JO ANN D .....	CASE CONTROL STUDY OF RESERPINE & BREAST CANCER .....	1N01 CP61019-00	1,537
HOGUE, ARTHUR .....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER .....	2N01 CN45137-03	343,971
KILLION, JERALD J .....	NEW APPROACHES TO IMMUNOTHERAPY .....	2N01 CB53937-01	72,469
KOLLMORGEN, GERALD M .....	STUDY OF ANIMAL MODELS FOR EVALUATION OF IMMUNOTHERAPY .....	2N01 CB43864-02	132,841
ORGANIZATION TOTAL	5 578,818		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>OKLAHOMA—Continued</b>				
<b>OKLAHOMA STATE DEPARTMENT OF HEALTH</b>		<b>ZIP CODE 73105</b>		
SMITH, JAMES W.....	EXPANSION OF OKLAHOMA CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45077-03	242,383	
ORGANIZATION TOTAL	1	242,383		
<b>UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER</b>		<b>ZIP CODE 73190</b>		
HABERMAN, JO ANN D.....	DEVELOPMENT OF INFRARED SCANNING SYSTEM.....	2N01 CB43869-04	416,480	
HABERMAN, JO ANN D.....	THERMOGRAPHY TECHNOLOGIST TRAINING PROGRAM.....	2N01 CN55163-02	458	
HABERMAN, JO ANN D.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55309-01	670,000	
NUNNERY, ARTHUR.....	EVALUATION OF A CLINICAL RESEARCH DATA SYSTEM.....	3N01 RR52119-01	36,645	
OLEINICK, SAMUEL R.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI52512-01	6,432	
ORGANIZATION TOTAL	5	1,130,015		
<b>STILLWATER</b>				
<b>OKLAHOMA STATE UNIVERSITY</b>		<b>ZIP CODE 74074</b>		
CARRAWAY, KERMIT L.....	INTERACTION OF BASEMENT MEMBRANES WITH PLATELETS.....	2N01 HV42983-03	63,833	
EISENBRAUN, E J.....	SYNTHESIS OF ANTIFERTILITY COMPOUNDS.....	3N01 HD42846-03	41,661	
ORGANIZATION TOTAL	2	105,494		
<b>TULSA</b>				
<b>HILLCREST MEDICAL CENTER</b>		<b>ZIP CODE 74104</b>		
LABADIE, ALICE J.....	ONCOLOGY NURSING PROGRAMS IN COMMUNITY HOSPITALS.....	5N01 CN55181-01	169,915	
ORGANIZATION TOTAL	1	169,915		
STATE TOTAL	16	2,369,613		
<b>OREGON</b>				
<b>CORVALLIS</b>		<b>ZIP CODE 97331</b>		
<b>OREGON STATE HIGHER EDUCATION SYSTEM—OREGON STATE UNIVERSITY</b>		<b>ZIP CODE 97331</b>		
REED, DONALD.....	STUDY OF METABOLISM OF ANTINEOPLASTIC AGENTS.....	2N01 CM23201-07	93,840	
ORGANIZATION TOTAL	1	93,840		
<b>PORTLAND</b>				
<b>GOOD SAMARITAN HOSPITAL AND MEDICAL CENTER</b>		<b>ZIP CODE 97210</b>		
CHENOWETH, R G.....	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY62141-00	43,728	
GOODMAN, MORTON J.....	SUPPORT FOR CANCER-DETECTION PROGRAM.....	2N01 CN45088-02	238,796	
SCHIMSCHOCK, JAMES R.....	A COMPREHENSIVE EPILEPSY PROGRAM.....	2N01 NS52328-04	883,561	
ORGANIZATION TOTAL	3	1,166,085		
<b>MEDICAL RESEARCH FOUNDATION OF OREGON</b>		<b>ZIP CODE 97225</b>		
ALEXANDER, NANCY J.....	LONG-TERM EFFECTS OF VASECTOMY.....	5N01 HD42866-05	68,899	
MALLEY, ARTHUR.....	PURIFICATION OF HUMAN TUMOR ASSOCIATED ANTIGENS.....	2N01 CB53954-01	71,600	
ORGANIZATION TOTAL	2	140,499		
<b>OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON HEALTH SCIENCES CENTER</b>		<b>ZIP CODE 97201</b>		
BUIST, A SONIA.....	STUDY TO STANDARDIZE MEASUREMENT OF CLOSING VOLUME.....	2N01 HR32900-05	189,310	
CREAMER, HOWARD R.....	PERIODONTAL DISEASE IN PATIENTS WITH IMMUNE DISORDERS.....	5N01 DE52455-03	163,840	
GOODNIGHT, SCOTT H.....	COOPERATIVE STUDY OF FACTOR VIII INHIBITOR IN HEMOPHILIA.....	3N01 HB53024-02	2,658	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OREGON—Continued</b>			
PIROFSKY, BERNARD .....	PREPARATION OF GAMMA GLOBULIN .....	3N01 HB32942-05	105,469
PRESCOTT, GERALD H. ....	COORDINATION OF REGIONAL CYTOGENETIC REGISTRIES .....	5N01 HD32713-08	117,072
ORGANIZATION TOTAL	5	578,349	
STATE TOTAL	11	1,978,773	
<b>PENNSYLVANIA</b>			
<b>ALLENTOWN</b>			
ALLENTOWN HOSPITAL ASSOCIATION	ZIP CODE 18102		
PRAGER, DAVID .....	CLINICAL ONCOLOGY PROGRAM .....	1N01 CN65288-00	73,328
ORGANIZATION TOTAL	1	73,328	
<b>BALA-CYNWYD</b>			
U.S. SMALL BUSINESS ADMINISTRATION	ZIP CODE 19004		
MATHUR, VINIA C .....	ASSEMBLE AND DISTRIBUTE NCI COMMITTEE BOOKS .....	3N01 C055170-01	198,827
TING, ROBERT C. ....	RNA TUMOR VIRUS TRANSFORMATION OF SKIN FIBROBLAST CELLS .....	3N01 CP43365-02	54,000
ORGANIZATION TOTAL	2	252,827	
<b>HERSHEY</b>			
PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER	ZIP CODE 17033		
BARDIN, CLYDE W. ....	ASSAY OF PROGESTERONE RECEPTOR ACTIVITY IN UTERUS .....	5N01 HD12228-10	94,551
BARDIN, CLYDE W. ....	COMPARATIVE STUDY OF PROGESTIN METABOLISM .....	5N01 HD22730-08	380,428
BARTLETT, GERALD L. ....	STUDY OF CANCER IMMUNOTHERAPY .....	2N01 CB33891-02	138,032
BARTLETT, GERALD L. ....	IMMUNOGENICITY OF 'SPONTANEOUS' ANIMAL TUMORS .....	1N01 CB64039-00	57,608
DAVIDSON, EUGENE A. ....	GLYCOPROTEINS OF MAMMARY CELL SURFACE .....	1N01 CB63984-00	124,000
EYSTER, M ELAINE .....	STUDY OF FACTOR VIII INHIBITOR IN HEMOPHILIA .....	3N01 HB53021-02	4,588
KREIDER, JOHN W. ....	STUDY OF IMMUNE-RELATED CELLS IN TUMORS .....	2N01 CB43931-02	39,767
MUNGER, BRYCE L. ....	STUDY OF DEVELOPMENT OF ORAL SENSORY RECEPTORS .....	3N01 DE22401-05	25,933
MUNGER, BRYCE L. ....	DEVELOPMENT OF MUCOSAL SENSORY RECEPTORS .....	5N01 HD42869-02	76,613
NAEYE, RICHARD L. ....	ANALYZE CAUSES OF SUDDEN INFANT DEATH SYNDROME .....	1N01 HD62845-00	76,790
PIERCE, WILLIAM S. ....	DEVELOPMENT OF AN ARTIFICIAL HEART .....	3N01 HV32966-08	159,500
RAPP, FRED .....	ONCOGENIC POTENTIAL OF DEFECTIVE HUMAN VIRUSES .....	2N01 CP53516-01	500,149
RAPP, FRED .....	IN VITRO MALIGNANT TRANSFORMATION .....	1N01 CP61063-00	56,973
SANTEN, RICHARD J. ....	SUPPRESSION OF ENDOCRINE FUNCTION IN HUMAN BREAST CANCER .....	2N01 CB53851-01	220,000
ORGANIZATION TOTAL	14	1,954,932	
<b>MARCUS HOOK</b>			
SUN OIL COMPANY—SUNTECH, INC.	ZIP CODE 19061		
MOORE, ROBERT E. ....	FLUOROCARBON COMPOUNDS AS ARTIFICIAL BLOOD SUBSTITUTES .....	1N01 HB62927-00	150,000
ORGANIZATION TOTAL	1	150,000	
<b>PHILADELPHIA</b>			
ALBERT EINSTEIN MEDICAL CENTER	ZIP CODE 19141		
ISARD, HAROLD J. ....	PROGRAM FOR DETECTING CANCER OF THE BREAST .....	2N01 CN45058-02	269,262
ORGANIZATION TOTAL	1	269,262	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>PENNSYLVANIA—Continued</b>			
<b>ANIMATION ARTS ASSOCIATES      ZIP CODE 19130</b>			
NOT APPLICABLE.....	PREPARATION OF MEDICAL ILLUSTRATIONS.....	3N01 LM34723-07	1,144
ORGANIZATION TOTAL	1      1,144		
<b>BIOLOGICAL ABSTRACTS      ZIP CODE 19103</b>			
SCHULTZ, LOUISE.....	TOXLINE ENRICHMENT.....	1N01 LM64704-00	32,056
ORGANIZATION TOTAL	1      32,056		
<b>BOOZ, ALLEN AND HAMILTON—NATIONAL ANALYSTS      ZIP CODE 19106</b>			
SHERMAN, LORNA R.....	INCIDENCE, PREVALENCE AND COSTS OF MULTIPLE SCLEROSIS.....	3N01 NS42335-04	73,191
ORGANIZATION TOTAL	1      73,191		
<b>CHILDREN'S HOSPITAL OF PHILADELPHIA      ZIP CODE 19104</b>			
D'ANGIO, GIULIO.....	STUDY ONCOGENESIS AND LATE EFFECTS OF CANCER THERAPY.....	1N01 CP65803-00	96,276
HENLE, GERTRUDE.....	PROPAGATION AND SEROEPIDEMIOLOGY OF EB VIRUS.....	2N01 CP33272-04	169,115
HUMMELER, KLAUS.....	MULTIPLE SCLEROSIS ETIOLOGY BY EIM TECHNIQUE.....	5N01 NS52311-02	160,000
ORGANIZATION TOTAL	3      425,391		
<b>COLLEGE OF PHYSICIANS OF PHILADELPHIA      ZIP CODE 19103</b>			
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY SERVICES.....	3N01 LM14715-15	70,811
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY SERVICES—REGION III.....	1N01 LM64723-00	390,520
ORGANIZATION TOTAL	2      461,331		
<b>FRANKLIN INSTITUTE OF THE STATE OF PENNSYLVANIA      ZIP CODE 19103</b>			
CAMPBELL, GRAHAM.....	CANCER INFORMATION DISSEMINATION AND ANALYSIS CENTER.....	1N01 C065361-00	197,924
CRAIG, PAUL N.....	GIANT HAMSTER ATLAS-REVIEW.....	2N01 CP55687-06	11,866
CRAIG, PAUL N.....	PROVIDE INFORMATION SUPPORT TO THE LUNG CANCER SEGMENT.....	1N01 CP65738-00	7,972
CRAIG, PAUL N.....	INFORMATION SERVICES FOR THE CARCINOGENESIS PROGRAM.....	1N01 CP65742-00	40,526
CRAIG, PAUL N.....	AWARENESS SERVICES FOR NITROSAMINE PROGRAM OF DCCP.....	1N01 CP65743-00	37,078
CRAIG, PAUL N.....	INFORMATION SERVICES ON SPONTANEOUS RAT TUMORS.....	1N01 CP65753-00	2,461
CRAIG, PAUL N.....	PROVIDE INFORMATION SUPPORT TO THE LUNG CANCER SEGMENT.....	1N01 CP65766-00	3,793
CRAIG, PAUL N.....	LITERATURE SEARCH FOR NCI/CG DECONTAMINATION PROCEDURES.....	1N01 CP65771-00	7,830
CRAIG, PAUL N.....	INFORMATION SERVICES TO HUMAN TISSUE STUDY SECTION.....	1N01 CP65800-00	11,250
CRAIG, PAUL N.....	LITERATURE STUDY FOR DOCTOR LIONEL POIRIER.....	1N01 CP65801-00	11,985
CRAIG, PAUL N.....	INFORMATION SUPPORT TO THE LUNG CANCER PROGRAM.....	1N01 CP65812-00	6,802
CRAIG, PAUL N.....	LITERATURE SEARCH OF CARCINOGENIC POTENCY INDEXES.....	1N01 CP65827-00	9,329
KLEINSTEIN, BRUCE H.....	PREPARATION OF GASTROENTEROLOGY ABSTRACTS AND CITATIONS.....	3N01 AM42204-04	159,041
KLEINSTEIN, BRUCE H.....	PREPARATION OF CARCINOGENESIS ABSTRACTS.....	3N01 CP43293-08	10,105
KRONICK, PAUL L.....	APPLICATION OF HYDROGELS TO POLYMERIC SURFACES.....	2N01 HV12017-11	52,500
MILLER, JACK.....	AWARENESS SERVICES FOR NITROSAMINE PROGRAM OF DCCP.....	1N01 CP65864-00	26,050
NEMES, MARJORIE M.....	PREPARATION OF ABSTRACTS FROM CANCER-RELATED LITERATURE.....	5N01 C055220-02	298,283
NOT APPLICABLE.....	LITERATURE SUPPORT SERVICES FOR MUTAGENESIS PROJECT.....	1N01 CP65732-00	9,011
NOT APPLICABLE.....	DELIVER PESTICIDE ABSTRACTS IN COMPUTER TAPE.....	3N01 LM54719-02	2,781
PETERS, ALEC.....	INDEXING JOURNAL ARTICLES IN THE BIOMEDICAL SCIENCES.....	1N01 LM64706-00	95,368
TAUBER, STEPHEN.....	TECHNICAL SUPPORT SERVICES FOR THE ICRDB PROGRAM.....	5N01 C055193-01	330,654
ORGANIZATION TOTAL	21      1,332,609		
<b>HAHNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA      ZIP CODE 19102</b>			
ANGELAKOS, EVANGELOS T.....	NONHUMAN PRIMATE MODELS OF ARTERIOSCLEROSIS.....	1N01 HV62905-00	624,922
BRADY, L.....	NETWORK DEMONSTRATION PROJECT IN HEAD AND NECK CANCER.....	2N01 CN55255-01	211,882
ORGANIZATION TOTAL	2      836,804		
<b>INSTITUTE FOR CANCER RESEARCH      ZIP CODE 19111</b>			
ENGSTROM, P F.....	PROTOTYPE NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	2N01 CN45055-02	289,785
POTNEY, DONALD H.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CN55237-02	1,568
SUTNICK, ALTON.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES.....	5N01 CN45126-02	195,679

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>PENNSYLVANIA—Continued</b>				
ORGANIZATION TOTAL	3	487,032		
<b>INSTITUTE FOR SCIENTIFIC INFORMATION ZIP CODE 19106</b>				
SMALL, HENRY.....		INFORMATION FOR DIET, NUTRITION AND CANCER PROGRAM .....	1N01 CP65772-00	18,870
ORGANIZATION TOTAL	1	18,870		
<b>LANKENAU HOSPITAL ZIP CODE 19151</b>				
HOLMES, WILLIAM L.....		SUPPORT FOR CLINICAL CENTER FOR HEART DISEASE.....	2N01 HV33110-03	1,300,887
ORGANIZATION TOTAL	1	1,300,887		
<b>MEDICAL COLLEGE OF PENNSYLVANIA ZIP CODE 19129</b>				
PAUCKER, KURT.....		PRODUCTION OF PURE ANTIBODY TO INTERFERON.....	2N01 A152520-02	42,545
ZAJAC, BARBARA A.....		SUPPLY OF EB VIRUS-ASSOCIATED ANTIGENS .....	3N01 CP43319-02	19,240
ORGANIZATION TOTAL	2	61,785		
<b>PHILADELPHIA GENERAL HOSPITAL ZIP CODE 19104</b>				
JIMINEZ, S A.....		INTERACTIONS OF COLLAGEN WITH PLATELETS .....	2N01 HV42982-04	121,703
ORGANIZATION TOTAL	1	121,703		
<b>PHILADELPHIA GERIATRIC CENTER ZIP CODE 19141</b>				
ALTSCHULER, HENRY.....		COLLECTION OF SERA FROM HIGH CANCER-RISK POPULATIONS.....	2N01 CB33914-02	51,405
ORGANIZATION TOTAL	1	51,405		
<b>TEMPLE UNIVERSITY ZIP CODE 19122</b>				
CLARK, WALLACE H, JR.....		INDUCTION OF MALIGNANT MELANOMAS IN GUINEA PIGS.....	3N01 CP33200-05	283,600
FORBES, P D.....		STUDY OF INDUCED CANCER OF THE SKIN .....	2N01 CP43271-04	188,630
GREENWALD, EARL.....		VAGINAL-CERVICAL CELL SOURCES FOR CYTOLOGY AUTOMATION.....	9N01 CB63995-00	24,000
LO SCIUTO, LEONARD A.....		PHYSICIANS ATTITUDES TOWARD ABORTION STUDY.....	3N01 HD12142-09	10,139
LO SCIUTO, LEONARD A.....		ANALYSIS OF DATA FROM THE AMERICAN WOMEN HEALTH PROJECT.....	1N01 HD62819-00	18,706
POLLACK, ROBERT L.....		STUDIES OF DENTAL PLAQUE & SALIVA FROM HUMANS .....	1N01 DE62495-00	82,665
TERHUNE, KENNETH W.....		A STUDY ON FERTILITY VALUES AND FAMILY GROWTH .....	1N01 HD62834-00	180,753
ORGANIZATION TOTAL	7	788,493		
<b>THOMAS JEFFERSON UNIVERSITY ZIP CODE 19107</b>				
KRAMER, SIMON.....		IMMUNOTHERAPY OF SQUAMOUS CELL CARCINOMA OF THE LUNG.....	1N01 CB64065-00	255,105
MAURER, PAUL H.....		SPECIFICITY OF ANTIGEN-BINDING RECEPTORS OF T-CELLS.....	2N01 CB43999-02	54,000
SHAPIRO, SANDOR S.....		FACTOR VIII INHIBITORS IN HEMOPHILIA .....	3N01 HB53018-02	5,604
SIMENHOFF, MICHAEL L.....		STUDY OF AMINE METABOLISM IN UREMIA .....	3N01 AM22209-05	44,483
SMITH, HARRY L, JR.....		SUPPORT FOR CHOLERA VIBRIO REFERENCE LABORATORY.....	2N01 A132502-05	80,076
WALLACE, JOHN D.....		STUDY OF THERMOGRAPHY IN SCREENING FOR BREAST CANCER .....	2N01 CN35027-07	433,694
ORGANIZATION TOTAL	6	872,962		
<b>UNIVERSITY CITY SCIENCE CENTER ZIP CODE 19104</b>				
SCHEINOK, PERRY A.....		DATA CENTER FOR BREAST CANCER DEMONSTRATION PROJECTS.....	3N01 CN45161-05	62,366
SCHEINOK, PERRY A.....		DATA MANAGEMENT CENTER FOR DETECTION OF BREAST CANCER .....	1N01 CN65376-00	795,894
ORGANIZATION TOTAL	2	858,260		
<b>UNIVERSITY OF PENNSYLVANIA ZIP CODE 19174</b>				
ARAI, KAZUHIKO.....		DEVELOPMENT OF METHOD TO PREPARE CYTOPATHOLOGY SPECIMENS.....	2N01 CB43967-02	72,225
ASAKURA, TOSHIO.....		STUDY OF SICKLE CELL DISEASE.....	2N01 HB22962-06	166,698
CHANCE, BRITTON.....		BIOENERGETIC ASPECTS OF CANCER CHEMOTHERAPEUTIC AGENTS.....	5N01 CM53830-01	22,656
KARE, MORLEY.....		GUSTATORY (TASTE) EVALUATION OF CANCER PATIENTS.....	1N01 CP65791-00	66,319
KUHL, DAVID E.....		COMPUTERIZED TRANSAXIAL NUCLIDE RECONSTRUCTION .....	2N01 CB53859-01	72,400
KUHL, DAVID E.....		COMPUTERIZED AZIAL TOMOGRAPHY IN ACUTE HEAD INJURY.....	5N01 NS52316-02	203,016
LEFKOVITZ, DAVID.....		SUPPORT FOR PROCESSING SYSTEM OF CHEMICAL INFORMATION.....	5N01 CM33719-05	117,864

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>PENNSYLVANIA—Continued</b>			
MULLEN, JAMES L.....	OPTIMAL NUTRITIONAL SUPPORT TO CANCER THERAPY.....	1N01 CP65802-00	126,318
MYERS, HOWARD M.....	IMMUNE STATUS WITH SEVERE PERIODONTAL DISEASE.....	5N01 DE52453-02	132,530
TSOU, KWAN C.....	5'-NUCLEOTIDE PHOSPHODIESTERASE SERUM ISOZYME TEST.....	1N01 CB64029-00	198,521
WOLF, DON P.....	STUDY OF HUMAN CERVICAL MUCUS.....	5N01 HD42838-04	89,047
YANKELL, SAMUEL L.....	SCREENING OF ANTIPLAQUE AND ANTIMICROBIAL AGENTS.....	3N01 DE52484-01	43,971
ZWEIMAN, BURTON.....	IN VITRO TEST FOR SARCOIDOSIS.....	5N01 HR42955-03	124,260
ORGANIZATION TOTAL	13	1,435,825	
<b>WILLS EYE HOSPITAL ZIP CODE 19130</b>			
FEDERMAN, JAY.....	EVALUATE EARLY VITRECTOMY IN DIABETIC RETINOPATHY.....	1N01 EY62144-00	35,651
TASMAN, WILLIAM S.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32119-04	85,781
ORGANIZATION TOTAL	2	121,432	
<b>WISTAR INSTITUTE OF ANATOMY AND BIOLOGY ZIP CODE 19104</b>			
BUCK, CLAYTON.....	GLYCOPROTEINS OF THE MAMMARY CELL SURFACE.....	1N01 CB64069-00	117,500
DIAMOND, LEILA.....	STUDIES ON SIGNIFICANCE OF MUTATION IN CARCINOGENESIS.....	2N01 CP55655-01	116,750
MANSON, LIONEL A.....	ANTIBODIES TO CARCINOMA IN EXPERIMENTAL ANIMALS.....	2N01 CB43882-02	70,260
PALMER, JON C.....	IMMUNOTHERAPY OF MOUSE TUMORS.....	1N01 CB64005-00	98,835
ORGANIZATION TOTAL	4	403,345	
<b>PITTSBURGH</b>			
<b>ALLEGHENY GENERAL HOSPITAL ZIP CODE 15212</b>			
LESHER, SAMUEL W.....	STUDY OF BIOLOGICAL EFFECT OF CHEMOTHERAPEUTIC DRUGS.....	5N01 CM43730-02	115,467
SCHIFFER, LEWIS M.....	STUDY OF CELL KINETICS OF BREAST CANCER.....	2N01 CB43899-03	163,400
SHRIVASTAVA, P. N.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	2N01 CN45148-03	227,428
ORGANIZATION TOTAL	3	506,295	
<b>CARNEGIE-MELLON UNIVERSITY ZIP CODE 15213</b>			
BERRY, GUY C.....	MODIFICATION OF SILICONE ELASTOMERS FOR MEDICAL DEVICES.....	5N01 HV32949-09	73,500
ORGANIZATION TOTAL	1	73,500	
<b>EYE AND EAR HOSPITAL OF PITTSBURGH ZIP CODE 15213</b>			
BILGER, ROBERT C.....	EVALUATE IMPLANTED AUDITORY PROSTHESES.....	3N01 NS52331-02	8,327
ORGANIZATION TOTAL	1	8,327	
<b>HARMARVILLE REHABILITATION CENTER ZIP CODE 15238</b>			
RICKETTS, J. E.....	INTEGRATED CANCER REHABILITATION SERVICES.....	1N01 CN65183-00	183,797
ORGANIZATION TOTAL	1	183,797	
<b>MAGEE-WOMEN'S HOSPITAL ZIP CODE 15213</b>			
ARCHER, DAVID F.....	EFFICACY OF POSTCOITAL CONTRACEPTIVES.....	1N01 HD62840-00	31,396
ORGANIZATION TOTAL	1	31,396	
<b>MONTEFIORE HOSPITAL ZIP CODE 15213</b>			
SELKER, ROBERT G.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM67061-00	56,274
ORGANIZATION TOTAL	1	56,274	
<b>UNIVERSITY OF PITTSBURGH ZIP CODE 15260</b>			
BRINTON, CHARLES C, JR.....	DEVELOPMENT OF GONOCOCCAL PILUS VACCINE FOR GONORRHEA.....	2N01 A152539-02	60,686
FISHER, BERNARD.....	PRIMARY BREAST CANCER THERAPY GROUP.....	2N01 CB23876-04	498,500
FISHER, BERNARD.....	IMMUNOTHERAPY OF C3H MURINE MAMMARY CARCINOMAS.....	1N01 CB64044-00	58,032
FISHER, BERNARD.....	SCREENING FOR EARLY DETECTION OF CANCER OF THE BREAST.....	2N01 CN45065-03	286,222
GRIECO, PAUL A.....	LUTEOLYTIC AGENTS-C-12 SUBSTITUTED ANALOGS PGF2ALPHA.....	1N01 HD62852-00	55,788
HOLLAND, AUDREY L.....	APHASIC PATIENTS' COMMUNICATIVE PERFORMANCE.....	3N01 NS52317-02	139,936



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>PENNSYLVANIA—Continued</b>			
KULLER, LEWIS H.....	SUPPORT FOR CLINICAL CENTER FOR CORONARY HEART DISEASE.....	2N01 HV33109-04	1,914,285
PASCASIO, ANNE.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES.....	2N01 CN55298-01	257,994
SAFAR, PETER.....	ACUTE RESPIRATORY INSUFFICIENCY EDUCATIONAL PROGRAMS.....	5N01 HR42965-02	152,000
SWORT, ARLOWAYNE.....	ONCOLOGY NURSING PROGRAMS.....	5N01 CN55186-01	155,891
YOUNGNER, JULIUS S.....	STUDY OF BIOLOGICAL STIMULATORS OF INTERFERON.....	2N01 AI32529-06	36,000
ORGANIZATION TOTAL	11	3,615,334	
<b>UNIVERSITY PARK</b>			
PENNSYLVANIA STATE UNIVERSITY	ZIP CODE 16802		
GAFFNEY, E V.....	CULTIVATION OF NORMAL AND MALIGNANT HUMAN MAMMARY CELLS.....	2N01 CB33898-06	66,000
HYMER, WESLEY C.....	STUDY OF CONTROL OF PROLACTIN SECRETION.....	2N01 CB23863-06	77,000
TODD, PAUL W.....	MARKERS FOR GYNECOLOGIC CYTOPATHOLOGY SPECIMENS.....	2N01 CB43984-03	247,322
ORGANIZATION TOTAL	3	390,322	
<b>VALENCIA</b>			
APPLIED SCIENCE ASSOCIATES	ZIP CODE 16059		
GLASGOW, ZITA.....	DEVELOP & TEST INSTRUCTIONAL MATERIAL TO DETECT DIABETES.....	1N01 LM64731-00	24,105
ORGANIZATION TOTAL	1	24,105	
<b>WARRINGTON</b>			
POLYSCIENCES, INC.	ZIP CODE 18976		
HALPERN, DAVID B.....	DETECTION OF ABNORMAL CERVICAL CELLS.....	2N01 CB43943-02	102,753
HALPERN, DAVID B.....	ELECTROPHORETIC SEPARATION OF PROTEINS.....	2N01 CP23245-04	79,611
HALPERN, DAVID B.....	FLUORIDE RELEASING SYSTEM FOR PROLONGED ORAL USE.....	3N01 DE52447-04	3,182
HALPERN, DAVID B.....	DEVICES AND MATERIALS FROM PURIFIED NEUTRAL HYDROGELS.....	5N01 HV61124-18	87,660
ORGANIZATION TOTAL	4	273,206	
STATE TOTAL	120	17,547,430	
<b>RHODE ISLAND</b>			
<b>PAWTUCKET</b>			
MEMORIAL HOSPITAL	ZIP CODE 02860		
BALDINI, MARIO G.....	IMPROVEMENT OF METHODS TO PRESERVE PLATELETS.....	2N01 HB12252-05	50,313
VENNES, JACK A.....	ANTITHROMBOGENIC SURFACES: PLATELET-INTERFACE REACTIONS.....	2N01 AM52215-01	81,877
ORGANIZATION TOTAL	2	132,190	
<b>PROVIDENCE</b>			
RHODE ISLAND HOSPITAL	ZIP CODE 02902		
CONSTANTINE, HERBERT P.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN45096-02	510,275
ORGANIZATION TOTAL	1	510,275	
STATE TOTAL	3	642,465	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
SOUTH CAROLINA				
CHARLESTON				
MEDICAL UNIVERSITY OF SOUTH CAROLINA		ZIP CODE 29401		
O'BRIEN, PAUL H.....	COLLECTION OF BREAST CANCER SPECIMENS.....	2N01 CB23867-06	70,000	
ROBSON, JOHN R.....	HEALTH AND NUTRITION STATUS IN PRIMITIVE POPULATIONS.....	1N01 CP65780-00	34,824	
ORGANIZATION TOTAL	2	104,824		
CLEMSON				
CLEMSON UNIVERSITY		ZIP CODE 29631		
KLAWITTER, JEROME J.....	HISTOLOGICAL ACCEPTANCE OF ARTIFICIALLY FABRICATED TEETH.....	3N01 DE32420-02	5,734	
ORGANIZATION TOTAL	1	5,734		
COLUMBIA				
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL		ZIP CODE 29201		
MARETT, WILLIAM.....	EXPANSION OF SOUTH CAROLINA'S CERVICAL CANCER PROGRAM.....	5N01 CN45084-04	119,660	
ORGANIZATION TOTAL	1	119,660		
UNIVERSITY OF SOUTH CAROLINA		ZIP CODE 29208		
GIESE, WARREN K.....	STUDY OF CORONARY HEART DISEASE.....	3N01 HV42932-02	941,966	
ORGANIZATION TOTAL	1	941,966		
STATE TOTAL	5	1,172,184		
TENNESSEE				
MEMPHIS				
ST. JUDE CHILDREN'S RESEARCH HOSPITAL		ZIP CODE 38101		
WEBSTER, ROBERT G.....	SUPPLY OF POLYPEPTIDE ANTIGENS OF INFLUENZA VIRUS.....	2N01 AI42510-03	79,031	
WEBSTER, ROBERT G.....	SURVEILLANCE AND ECOLOGY OF ANIMAL INFLUENZA.....	5N01 AI52524-01	104,832	
ORGANIZATION TOTAL	2	183,863		
UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES		ZIP CODE 38163		
AUTIAN, JOHN.....	STUDY OF TOXICITY OF FLUIDS FLOWING THROUGH DIALYZERS.....	3N01 AM42219-04	47,628	
AVIS, KENNETH E.....	QUALITY ASSURANCE ANALYSES OF CHEMICALS AND DRUGS.....	3N01 CM02084-09	36,500	
DAVIES, DEAN F.....	IMPACT OF MULTISITE SCREENING ON CANCER MORTALITY.....	2N01 CB53864-01	107,250	
KORONES, SHELDON B.....	ANTENATAL STEROID THERAPY IN THE PREVENTION OF RDS.....	1N01 HR62953-00	6,720	
LIEBERMAN, PHILLIP L.....	PREVALENCE OF SPECIFIC HLA ANTIGENS AND LUNG DISEASES.....	1N01 HR62939-00	61,229	
MURRELL, LEONARD R.....	ORGAN CULTURE OF RODENT PANCREAS.....	2N01 CP33369-02	77,282	
ROBERTSON, JAMES T.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	5N01 CM57021-03	92,475	
ROBERTSON, JAMES T.....	DIFFERENTIAL NUTRITIONAL REQUIREMENTS BY HOST AND TUMOR.....	1N01 CP65786-00	250,000	
STADLAN, E M.....	FRESH AND FROZEN BRAIN TISSUES FOR CANCER RESEARCH.....	1N01 CP61020-00	32,577	
ORGANIZATION TOTAL	9	711,661		
NASHVILLE				
GEORGE PEABODY COLLEGE FOR TEACHERS		ZIP CODE 37203		
SANDLER, HOWARD M.....	EFFECTS OF ADOLESCENT PREGNANCY ON MOTHER-INFANT.....	1N01 HD62860-00	80,822	
ORGANIZATION TOTAL	1	80,822		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>TENNESSEE—Continued</b>				
<b>TENNESSEE DEPARTMENT OF PUBLIC HEALTH</b>		<b>ZIP CODE 37219</b>		
TRAHUE, M D.....	ESTABLISH A STATE CERVICAL CANCER SCREENING PROGRAM.....	3N01 CN45085-04	346,976	
ORGANIZATION TOTAL	1	346,976		
<b>VANDERBILT UNIVERSITY</b>		<b>ZIP CODE 37240</b>		
BURKO, HENRY.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55099-01	538,524	
CHIU, JEN-FU.....	ANTIBODIES TO HUMAN ORGAN OR TISSUE ASSOCIATED ANTIGENS.....	2N01 CB53896-01	93,535	
GIMN, H EARL.....	NEUROBEHAVIORIAL AND CLINICAL RESPONSES TO HEMODIALYSIS.....	3N01 AM22211-07	68,269	
HARTMANN, WILLIAM H.....	BREAST CANCER DETECTION DEMONSTRATION PROJECTS.....	1N01 CN65373-00	67,290	
HNILICA, LUBOMIR S.....	NONHISTONE DNA BINDING PROTEINS.....	1N01 CP65730-00	94,413	
KARZON, DAVID T.....	RESPIRATORY VACCINES IN CHILDREN AND INFANTS.....	2N01 AI22507-09	425,788	
PAGE, DAVID L.....	STUDY OF FIBROCYSTIC DISEASE AND MAMMARY CARCINOMA.....	2N01 CB43871-02	54,100	
SELL, SARAH H.....	ANTIBODY RESPONSE TO PNEUMOCOCCAL POLYSACCHARIDES.....	3N01 AI52538-01	4,694	
ORGANIZATION TOTAL	8	1,346,613		
STATE TOTAL	21	2,669,935		
<b>TEXAS</b>				
<b>AUSTIN</b>				
<b>TEXAS DEPARTMENT OF HEALTH RESOURCES</b>		<b>ZIP CODE 78756</b>		
YERWOOD, C R.....	STATE CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN45078-03	203,647	
ORGANIZATION TOTAL	1	203,647		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN</b>		<b>ZIP CODE 78712</b>		
FOLKERS, KARL.....	PEPTIDE ANTAGONISTS OF LH-RH AS OVULATION INHIBITORS.....	1N01 HD62846-00	156,543	
POPOVICH, ROBERT P.....	STUDY OF PHYSIOLOGICAL TRANSPORT PARAMETERS.....	3N01 AM32205-04	54,000	
POPOVICH, ROBERT P.....	DEVELOPMENT OF LOW DIALYSIS CLEARANCE HYPOTHESIS.....	1N01 AM62211-00	66,812	
ORGANIZATION TOTAL	3	277,355		
<b>DALLAS</b>				
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS</b>		<b>ZIP CODE 75235</b>		
BEER, ALAN E.....	PREGNANCY-IMMUNOREGULATION OF HYPERSENSITIVITY.....	3N01 AI42531-02	36,880	
CLOWES, ROYSTON C.....	VERIFICATION OF GENETIC CONSTITUTION OF PLASMID VECTORS.....	1N01 AI62517-00	32,290	
HELM, PHALA A.....	DEMONSTRATION OF CANCER REHABILITATION FACILITIES.....	5N01 CN45133-03	354,634	
JOHNSTON, KENNETH H.....	STEREOTYPING SYSTEM FOR NEISSERIA GONORRHOEA.....	5N01 AI52534-02	28,825	
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM.....	5N01 LM54705-03	262,257	
PROUGH, RUSSELL A.....	STUDY OF POLYCYCLIC HYDROCARBON METABOLISM.....	2N01 CP33362-02	56,030	
ROSENBERG, ROGER N.....	BIOLOGICAL SYSTEMS FOR EVALUATION OF ANTITUMOR AGENTS.....	5N01 CM53767-02	66,773	
STASTNY, PETER.....	EVALUATION OF HISTOCOMPATIBILITY-MATCHING.....	2N01 AI22531-05	40,315	
UNGER, ROGER H.....	HUMAN DIABETES PROGRAM.....	1N01 AM62219-00	360,514	
WATERMAN, MICHAEL R.....	STUDIES IN SICKLE CELL DISEASE.....	2N01 HB22954-05	66,513	
ORGANIZATION TOTAL	10	1,305,031		
<b>DENTON</b>				
<b>NORTH TEXAS STATE UNIVERSITY</b>		<b>ZIP CODE 76203</b>		
CANTRELL, ELROY.....	STANDARDIZATION OF ARYL HYDROXYLASE ASSAY.....	2N01 CP55626-02	23,783	
ORGANIZATION TOTAL	1	23,783		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>TEXAS—Continued</b>			
<b>GALVESTON</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON      ZIP CODE 77550</b>			
ABELL, CREED W.....	GROWTH ALTERATION OF MAMMARY NEOPLASTIC CELLS.....	2N01 CB43906-02	96,100
ALBRECHT, THOMAS B.....	TRANSFORMATION OF MAMMALIAN CELLS.....	1N01 CP61042-00	103,451
BEATHARD, GERALD A.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	3N01 AI52504-01	23,851
BOWMAN, BARBARA H.....	ISOLATION OF NEW PRODUCTS FROM PLASMA FRACTIONATION.....	3N01 HB42948-03	99,800
MC CANITY, WILLIAM J.....	STUDY OF SEX STEROIDS AND NUTRITIONAL STATUS.....	3N01 HD22728-06	1,500
PAPERMASTER, BEN W.....	IMMUNOTHERAPEUTIC STUDIES WITH LYMPHOKINE 178.....	1N01 CB64058-00	86,000
PETERSON, JOHNNY W.....	STUDY OF CHOLERA TOXOIDS IN HUMAN VOLUNTEERS.....	2N01 AI02101-07	95,754
ORGANIZATION TOTAL	7	506,456	
<b>HOUSTON</b>			
<b>BAYLOR COLLEGE OF MEDICINE      ZIP CODE 77025</b>			
BUTEL, JANET S.....	NUCLEIC ACID PREPARATION EFFECTS ON MAMMARY CARCINOMAS.....	2N01 CB53904-01	104,000
COUCH, ROBERT B.....	EVALUATION OF METHODS FOR CONTROL OF RESPIRATORY DISEASE.....	5N01 AI32506-07	279,510
COUCH, ROBERT B.....	ESTABLISHMENT OF AN INFLUENZA RESEARCH CENTER.....	3N01 AI42528-05	17,342
GOTTO, ANTONIO M.....	SUPPORT FOR LIPID RESEARCH CLINIC.....	2N01 HV12156-08	1,380,060
GREENBERG, S DONALD.....	EVALUATE PRENEOPLASTIC LESIONS IN THE RESPIRATORY TRACT.....	1N01 CP65837-00	130,687
GREENBERG, STEPHEN B.....	TRANSPORT OF INTERFERON ACROSS THE MUCOUS MEMBRANE.....	2N01 AI42530-02	49,881
HAZLEWOOD, CARLTON F.....	NMR STUDIES IN NEOPLASTIC & NON-NEOPLASTIC TISSUES.....	5N01 CB43978-04	15,430
KAUFMAN, RAYMOND H.....	STUDY OF INCIDENCE AND NATURAL HISTORY OF GENITAL TRACT.....	5N01 CN45092-05	142,666
KOHLER, PETER O.....	STUDY OF ROLE OF STROMA IN GROWTH.....	2N01 CB43907-02	95,000
KOHLER, PETER O.....	EVALUATE TESTOSTERONE ENANTHATE-INDUCED AZOOSPERMIA.....	1N01 HD62816-00	59,124
LEVINSON, CARL J.....	ETHINYLESTRADIOL AS POSTCOITAL CONTRACEPTIVE AGENT.....	1N01 HD62838-00	67,880
MEDINA, DANIEL.....	HYPERPLASTIC ALVEOLAR NODULE SYSTEM—ANTITUMOR SCREEN.....	5N01 CM57018-01	34,000
MELNICK, JOSEPH L.....	STUDY THE POSSIBLE VIRAL ETIOLOGY OF HUMAN MALIGNANCIES.....	3N01 CP53526-01	443,910
MUMFORD, DAVID M.....	STUDY OF IMMUNE ALTERATIONS ASSOCIATED WITH VASECTOMY.....	2N01 HD32759-05	100,360
RICH, ROBERT R.....	SUPPRESSION OF CELL-MEDIATED IMMUNE RESPONSES.....	3N01 AI42529-04	35,400
SUKI, WADI N.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	2N01 AI52506-01	40,880
THOMPSON, H K, JR.....	DEVELOP AND EVALUATE CLINICAL RESEARCH DATA SYSTEM.....	5N01 RR52118-03	163,963
TINDALL, DONALD J.....	ISOLATE AND PURIFY RAT ANDROGEN BINDING PROTEIN.....	1N01 HD62842-00	47,379
ORGANIZATION TOTAL	18	3,207,472	
<b>METHODIST HOSPITAL      ZIP CODE 77025</b>			
KELLAWAY, PETER A.....	CLINICAL QUANTIFICATIONS & TREATMENT OF INFANTILE SPASMS.....	1N01 NS62342-00	60,000
ORGANIZATION TOTAL	1	60,000	
<b>ST. JOSEPH HOSPITAL      ZIP CODE 77002</b>			
MOORE, D L.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55100-02	273,800
ORGANIZATION TOTAL	1	273,800	
<b>STENLIN FOUNDATION FOR CANCER RESEARCH      ZIP CODE 77002</b>			
GIOVANELLA, BEPPINO C.....	STUDY OF BREAST-CANCER TRANSPLANTS IN ATHYMIC MICE.....	2N01 CB33856-06	148,000
GIOVANELLA, BEPPINO C.....	MODEL SYSTEMS FOR CHEMOTHERAPY OF HUMAN TUMORS.....	1N01 CM67073-00	317,810
ORGANIZATION TOTAL	2	465,810	
<b>TEXAS HEART INSTITUTE      ZIP CODE 77025</b>			
NORMAN, JOHN C.....	EVALUATION OF MODEL VII LEFT VENTRICULAR ASSIST DEVICE.....	5N01 HV53006-02	421,904
ORGANIZATION TOTAL	1	421,904	
<b>TEXAS INBRED MICE COMPANY      ZIP CODE 77002</b>			
BAUGHMAN, LAWRENCE C.....	OPERATION OF A GERM-FREE RODENT COLONY.....	5N01 CM53816-01	893,131
ORGANIZATION TOTAL	1	893,131	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>TEXAS—Continued</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON</b>		<b>ZIP CODE 77025</b>	
FRIEDMAN, LAWRENCE .....	EVALUATE SODIUM MONOFLUOROPHOSPHATE MOUTHRINSE .....	1N01 DE62496-00	28,165
HAWKINS, C MORTON .....	STUDY OF HYPERTENSION IN THERAPY .....	2N01 HW12442-10	4,615,014
LEVY, BARNET M .....	PERIODONTAL DISEASE IN PATIENTS WITH IMMUNE DISORDERS .....	5N01 DE52454-03	153,502
SANBORN, BARBARA M .....	STUDY OF EXISTENCE OF SPECIFIC CYTOPLASMIC RECEPTORS .....	5N01 HD32779-05	28,698
SMITH, KEITH D .....	ENDOCRINE CHANGES IN VASECTOMIZED MEN .....	2N01 HD22776-04	51,578
ORGANIZATION TOTAL	5	4,876,957	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER</b>		<b>ZIP CODE 77025</b>	
ALEXANIAN, RAYMOND .....	SOURCE OF HUMAN URINARY ERYTHROPOIETIN .....	1N01 HB62959-00	74,059
ANDERSON, DAVID E .....	FAMILIAL GENETIC POLYMORPHISMS & BREAST CANCER RISK .....	2N01 CB44004-02	43,743
ARLINGHAUS, RALPH B .....	BIOSYNTHESIS OF ONCO-RNA PROTEINS IN MAMMALIAN CELLS .....	1N01 CP61017-00	109,530
BECKER, FREDERICK F .....	BIOLOGY OF NEOPLASTIC LIVER LESIONS IN MICE .....	1N01 CP65846-00	182,415
BLUMENSCHIEIN, GEORGE R .....	TISSUE CULTURE LINES FROM BREAST CANCER .....	2N01 CB23869-03	120,000
BODEY, GERALD P .....	QUANTITATIVE EVALUATION OF PROTECTED ENVIRONMENT .....	3N01 CM53832-01	541,439
BODEY, GERALD P .....	STUDIES OF PATIENTS WITH SOLID DISSEMINATED TUMORS .....	5N01 CM57042-03	619,241
BOWEN, JAMES M .....	IMMUNOLOGICAL STUDIES ON HUMAN BREAST CARCINOMA .....	2N01 CP43370-03	84,783
CLARK, R LEE .....	COMPREHENSIVE CANCER CENTERS COMMUNICATIONS NETWORK .....	3N01 CN55244-03	1,568
DODD, GERALD D .....	XEROMAMMOGRAPHY VERSUS FILM MAMMOGRAPHY .....	2N01 CB43993-02	76,000
DODD, GERALD D .....	MAMMOGRAPHY TRAINING FOR DETECTION OF BREAST CANCER .....	2N01 CN55250-01	99,716
GALLAGHER, H STEPHEN .....	MORPHOLOGICAL & EPIDEMIOLOGICAL FACTORS OF BREAST CANCER .....	2N01 CB53854-01	44,900
GALLAGHER, H STEPHEN .....	THERAPY OF PATIENTS WITH OVARIAN CARCINOMA .....	1N01 CM67026-00	61,677
GUINEE, V F .....	STATISTICAL CENTER .....	1N01 CN65296-00	324,276
GUTTERMAN, JORDAN U .....	STUDY OF CANCER IMMUNOTHERAPY .....	2N01 CB33888-03	409,000
HARVIN, JANICE M .....	SCREENING AND PROCESSING OF BIOMEDICAL LITERATURE .....	5N01 CO55219-02	79,861
HICKEY, ROBERT C .....	SUPPORT FOR CANCER INFORMATION TELEPHONE SERVICES .....	2N01 CN35033-02	105,793
HILKEMEYER, RENILDA .....	ENTEROSTOMAL THERAPY EDUCATION PROGRAM .....	5N01 CN45111-03	73,273
HURLBERT, ROBERT B .....	ANTITUMOR DRUGS; EFFECTS ON POLYNUCLEOTIDE METABOLISM .....	5N01 CM43786-02	85,550
LANZOTTI, VICTOR J .....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY .....	1N01 CP65871-00	189,675
LOO, TI L .....	PHARMACOLOGIC STUDIES OF ANTITUMOR AGENTS .....	5N01 CM53773-01	486,063
MC KELVEY, EUGENE M .....	CANCER INFORMATION DISSEMINATION AND ANALYSIS CENTER .....	1N01 CO65345-00	194,768
MOUNTAIN, CLIFTON F .....	THERAPY OF PATIENTS WITH BRONCHOGENIC CARCINOMA .....	2N01 CM33737-11	129,404
MURPHY, SAMUEL G .....	IMMUNOTHERAPY IN THE L2C LEUKEMIA .....	1N01 CB64003-00	126,216
SAMUELS, MELVIN L .....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY .....	1N01 CP65866-00	199,905
SHALEK, ROBERT J .....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS .....	2N01 CN45150-04	138,385
SHAW, CHARLES R .....	MICROSOMAL ENZYME STUDIES .....	2N01 CP55604-03	75,000
SMITH, JULIAN P .....	STUDY OF CHEMOTHERAPY OF OVARIAN CARCINOMA .....	3N01 CM33710-05	177,418
SMITH, JULIAN P .....	THERAPY OF PATIENTS WITH OVARIAN CARCINOMA .....	1N01 CM67116-00	79,539
VAN EYS, JAN .....	OPTIMAL NUTRITIONAL SUPPORT AS ADJUNCT TO CANCER THERAPY .....	1N01 CP65794-00	194,593
ORGANIZATION TOTAL	30	5,127,790	
<b>SAN ANTONIO</b>			
<b>SOUTHWEST FOUNDATION FOR RESEARCH AND EDUCATION</b>		<b>ZIP CODE 78284</b>	
EICHBERG, JORG W .....	IMMUNOTHERAPY OF HERPES VIRUS LYMPHOMAS IN MARMOSETS .....	1N01 CB64055-00	121,305
HERBERLING, R L .....	STUDY OF LATENT VIRUS INFECTION .....	3N01 CP43214-02	762,845
KALTER, SEYMOUR S .....	SUPPORT FOR CHIMPANZEE BREEDING COLONY .....	2N01 CP33340-06	65,980
MC CULLOUGH, BRUCE .....	ANIMAL MODEL OF PULMONARY FIBROSIS .....	5N01 HR53012-02	357,330
MC GILL, HENRY C .....	MODELS OF ATHEROSCLEROSIS .....	2N01 HV53030-02	393,171
MELTZ, MARTIN L .....	SCREENING OF NEW MATERIALS FOR CYTOTOXICITY .....	1N01 CM67075-00	97,721
RAO, PEMMARAJU N .....	SYNTHESIS OF CORTICOSTEROIDS AS ANTIFERTILITY AGENTS .....	3N01 HD42834-01	35,247
RAO, PEMMARAJU N .....	SYNTHETIC CHEMICAL FACILITY .....	5N01 HD52857-03	111,844
SHAIKH, ABUBAKAR A .....	PRIMATE TESTING FACILITY .....	2N01 HD52810-02	110,202
SHAIN, SYDNEY A .....	STUDY OF HORMONAL FACTORS OF PROSTATE .....	2N01 CP33379-03	314,730
ORGANIZATION TOTAL	10	2,370,375	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>TEXAS—Continued</b>			
<b>SOUTHWEST TEXAS METHODIST HOSPITAL      ZIP CODE 78229</b>			
WHITECAR, JOHN P, JR.....	CLINICAL ONCOLOGY PROGRAM.....	1N01 CN65294-00	73,465
ORGANIZATION TOTAL	1	73,465	
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO      ZIP CODE 78284</b>			
DOUGHERTY, JOSEPH C.....	HISTOCOMPATIBILITY MATCHING IN RENAL TRANSPLANTATION.....	2N01 AJ52505-01	29,565
HARRINGTON, JOHN T.....	MIGRATION INHIBITION ASSAYS.....	2N01 CB43893-01	75,609
MC GUIRE, WILLIAM L.....	ENDOCRINE-INDUCED BREAST CANCER REGRESSION.....	2N01 CB23862-06	120,000
SMITH, KENDALL O.....	STUDY OF MULTIPLE SCLEROSIS BY RADIOIMMUNOASSAY.....	1N01 NS62339-00	99,451
THOR, DANIEL.....	DEVELOPMENT OF METHOD TO DETECT IMMUNOLOGIC REACTIVITY.....	2N01 CP43353-04	85,310
ORGANIZATION TOTAL	5	409,935	
<b>TYLER</b>			
<b>TEXAS DEPARTMENT OF HEALTH RESOURCES—EAST TEXAS CHEST HOSPITAL      ZIP CODE 75701</b>			
HURST, GEORGE A.....	TYLER ASBESTOS WORKERS STUDY.....	3N01 CN45066-01	800,342
ORGANIZATION TOTAL	1	800,342	
STATE TOTAL	98	21,297,253	
<b>UTAH</b>			
<b>OGDEN</b>			
<b>OGDEN RESEARCH FOUNDATION      ZIP CODE 84403</b>			
WILLIAMS, C BASIL.....	ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52918-02	80,000
ORGANIZATION TOTAL	1	80,000	
<b>OREM</b>			
<b>TROMAC, INC.      ZIP CODE 84057</b>			
HART, ROGER.....	MICROCALORIMETER SYSTEM.....	3N01 CL52137-01	83,372
ORGANIZATION TOTAL	1	83,372	
<b>PROVO</b>			
<b>BRIGHAM YOUNG UNIVERSITY      ZIP CODE 84602</b>			
MANGUM, JOHN H.....	ANTI-TUMOR DRUGS—EFFECTS ON FOLATE METABOLISM.....	5N01 CM43790-03	82,346
ORGANIZATION TOTAL	1	82,346	
<b>SALT LAKE CITY</b>			
<b>SALT LAKE CLINIC RESEARCH FOUNDATION      ZIP CODE 84102</b>			
BARKER, ALLAN H.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52923-02	72,371
ORGANIZATION TOTAL	1	72,371	
<b>UTAH STATE DEPARTMENT OF SOCIAL SERVICES      ZIP CODE 84114</b>			
ELIASON, GAYLE H.....	IMPLEMENTATION FOR A CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN65365-00	247,519
ORGANIZATION TOTAL	1	247,519	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>UTAH—Continued</b>			
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH</b>		<b>ZIP CODE 84112</b>	
CASTLE, CHARLES H.....	STUDY OF HYPERTENSION IN THERAPY.....	3N01 HV12435-12	472,877
DANIELS, A U.....	VENA CAVA RING TESTS OF ANIMAL BIOMATERIALS.....	9N01 HV62911-00	99,345
DE WITT, CHARLES W.....	EVALUATION OF HISTOCOMPATIBILITY-MATCHING.....	2N01 A42507-02	13,116
EICHWALD, ERNST J.....	DETERMINING THE EFFECT OF CHRONIC IMMUNOSUPPRESSION.....	3N01 CP45600-03	69,360
ELTRINGHAM, JAMES R.....	EFFECTS OF RADIATION & ADRIAMYCIN ON CARDIOMYOPATHIES.....	5N01 CM53827-01	62,362
GANDHI, OM P.....	EFFECTS OF MICROWAVE RADIATION ON THE NERVOUS SYSTEM.....	1N01 ES62146-00	98,194
GLASGOW, LOWELL A.....	STUDY OF ANTIVIRAL SUBSTANCES.....	2N01 A42524-03	92,849
KOLFF, WILLEM J.....	PERITONEAL DIALYSIS.....	2N01 AM52214-01	30,000
LYON, JOSEPH L.....	AN EPIDEMIOLOGICAL INVESTIGATION OF CANCER IN UTAH.....	2N01 CP43382-04	332,390
MOODY, FRANK G.....	PHYSIOLOGICAL REFLEX IN PANCREATIC DUCT.....	5N01 CP55709-02	94,842
MORRIS, ALAN H.....	EXTRACORPOREAL SUPPORT FOR RESPIRATORY INSUFFICIENCY.....	5N01 HR42921-03	54,427
OVERALL, JAMES C, JR.....	RECURRENT HERPES VIRUS HOMINIS INFECTION.....	3N01 A152532-01	135,318
RIEKHOF, F TEMPLE.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32122-04	167,974
SANDBERG, LAWRENCE B.....	SEPARATION AND CHARACTERIZATION OF LUNG ELASTIN.....	5N01 HR42942-02	63,465
SMART, CHARLES.....	IMPLEMENTATION OF AN AT-HOME REHABILITATION PROGRAM.....	1N01 CN65301-00	389,279
SWINYARD, EWART A.....	PHARMACOLOGICAL EVALUATION OF ANTI-CONVULSANTS.....	2N01 NS52302-02	209,072
TOWNSEND, LEROY B.....	SYNTHESIS OF NUCLEOSIDES FOR CANCER CHEMOTHERAPY.....	5N01 CM43806-02	225,256
WALTON, MINNIE H.....	ONCOLOGY NURSING PROGRAMS IN MEDICAL CENTERS.....	5N01 CN45141-01	245,800
WARD, J R.....	COOPERATIVE SYSTEMATIC STUDIES OF RHEUMATIC DISEASES.....	1N01 AM62218-00	774,756
YATES, WILLIAM G.....	TESTING AND EVALUATION OF BRAMSON MEMBRANE LUNG.....	2N01 HR52943-03	99,365
ORGANIZATION TOTAL	20	3,730,047	
STATE TOTAL	25	4,295,655	
<b>VERMONT</b>			
<b>BURLINGTON</b>			
<b>UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE</b>		<b>ZIP CODE 05401</b>	
CRAIGHEAD, JOHN E.....	STUDY OF CARCINOGENESIS IN ORGAN CULTURE.....	2N01 CP33360-02	104,226
FOSTER, ROGER S, JR.....	NETWORK DEMONSTRATION PROJECT IN BREAST CANCER.....	1N01 CN65322-00	601,000
KUSSEROW, BERT K.....	EVALUATE MATERIALS FOR THROMBOEMBOLIC AND BLOOD TRAUMA.....	5N01 HV52939-01	66,800
LUCEY, JEROLD F.....	PERINATAL CARE OF THE HIGH-RISK INFANT AND MOTHER.....	5N01 HR52961-01	193,000
WEED, LAWRENCE L.....	COMPUTERIZED PROBLEM-ORIENTED MEDICAL INFORMATION SYSTEM.....	5N01 CM33716-03	32,460
ORGANIZATION TOTAL	5	997,486	
<b>VERMONT AGENCY OF HUMAN SERVICES—DEPARTMENT OF HEALTH</b>		<b>ZIP CODE 05401</b>	
COFFIN, ROBERTA R.....	IMPLEMENTATION FOR A CERVICAL CANCER SCREENING PROGRAM.....	1N01 CN65368-00	200,016
ORGANIZATION TOTAL	1	200,016	
STATE TOTAL	6	1,197,502	
<b>VIRGINIA</b>			
<b>ALEXANDRIA</b>			
<b>ATLANTIC RESEARCH CORPORATION</b>		<b>ZIP CODE 22314</b>	
REEVE, JAMES E.....	INSTALLATION OF TELECAST ROOMS FOR CTS EXPERIMENTS.....	1N01 LM64745-00	140,482
ORGANIZATION TOTAL	1	140,482	
<b>HALIFAX ENGINEERING, INC.</b>		<b>ZIP CODE 22312</b>	
NOT APPLICABLE.....	MAINTENANCE ELECTRONICS.....	1N01 LM64730-00	33,263
ORGANIZATION TOTAL	1	33,263	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>VIRGINIA—Continued</b>			
<b>HUMAN RESOURCES RESEARCH ORGANIZATION      ZIP CODE 22314</b>			
WILSON, THURLOW .....	ATTITUDE TOWARD EMPLOYMENT OF WORK-ABLE CANCER PATIENTS.....	5N01 CM55089-03	161,827
ORGANIZATION TOTAL      1	161,827		
<b>INFORMATION RESEARCH AND TECHNOLOGY      ZIP CODE 22304</b>			
NOT APPLICABLE .....	MAINTAIN AND UPDATE TOXICOLOGY DATA BANK.....	3N01 LM54714-02	5,571
ORGANIZATION TOTAL      1	5,571		
<b>RUHL ASSOCIATES      ZIP CODE 22302</b>			
WHITING, MARJORIE.....	DIETARY AND NUTRITIONAL SURVEYS AND CANCER EPIDEMIOLOGY.....	1N01 CP65789-00	27,625
ORGANIZATION TOTAL      1	27,625		
<b>VALUE ENGINEERING COMPANY      ZIP CODE 22303</b>			
DEAN, CHARLES.....	DRUG DISTRIBUTION AND INVENTORY SYSTEM.....	2N01 CM53821-05	242,227
SANFACON, THOMAS J.....	BIOLOGICAL DATA-PROCESSING SYSTEM.....	3N01 CM33706-10	1,080,545
SANFACON, THOMAS J.....	DRUG RESEARCH AND DEVELOPMENT DATA PROCESSING SYSTEM.....	1N01 CM67086-00	917,149
ORGANIZATION TOTAL      3	2,239,921		
<b>ARLINGTON</b>			
<b>AMERICAN BLOOD COMMISSION      ZIP CODE 22209</b>			
KENNEDY, LOUANNE.....	ANALYSIS OF BLOOD PROCUREMENT AND SOCIAL POLICY.....	1N01 HB62956-00	112,992
LANGDELL, ROBERT.....	OPERATING RELATIONSHIP SHARING OF BLOOD BANK SERVICES.....	9N01 HB62967-00	111,169
MILLER, TED.....	TASK FORCE ON 'COMMONALITY IN BLOOD BANKING AUTOMATION'.....	9N01 HB62966-00	112,526
MILLER, TED.....	TASK FORCE ON MEETING NATIONAL BLOOD BANKING DATA NEEDS.....	9N01 HB62968-00	396,890
ORGANIZATION TOTAL      4	733,577		
<b>DATA USE AND ACCESS LABORATORIES      ZIP CODE 22209</b>			
HILL, GARY L.....	DEVELOPMENT OF 1960 AND 1970 CENSUS ONE-PERCENT SAMPLES.....	3N01 HD22707-07	18,000
HILL, GARY L.....	TRAINING PROGRAMS FOR ACCESSING UNIT RECORD DATA FILES.....	1N01 HD62828-00	214,440
ORGANIZATION TOTAL      2	232,440		
<b>KAPPA SYSTEMS      ZIP CODE 22209</b>			
ALDRIDGE, JANIS L.....	SUPPORT SERVICES—CANCER BIOLOGY AND DIAGNOSIS.....	2N01 CB53866-02	409,442
BAUER, WILLIAM.....	COMPLETE SUPPORT FOR THE NATIONAL COMMISSION ON DIABETES.....	1N01 AM62220-00	55,921
NOT APPLICABLE .....	SYMPOSIUM ON ENVIRONMENTAL CARCINOGENS.....	1N01 CP65824-00	5,314
RASMANN, JOHN F.....	NATIONAL HIGH BLOOD PRESSURE EDUCATION PROGRAM.....	5N01 HV52942-02	1,438,626
ORGANIZATION TOTAL      4	1,909,303		
<b>MACMILLAN, INC.—ASSOCIATION STERLING FILMS      ZIP CODE 22209</b>			
NOT APPLICABLE .....	DISTRIBUTION AND BOOKING SERVICES—NMAC, NLM.....	2N01 LM54718-01	80,250
ORGANIZATION TOTAL      1	80,250		
<b>MEDICAL SERVICE CONSULTANTS      ZIP CODE 22209</b>			
BAUER, WILLIAM.....	SUPPORT SERVICES FOR THE NATIONAL COMMISSION ON DIABETES.....	3N01 AM52206-02	403,536
ORGANIZATION TOTAL      1	403,536		
<b>XEROX CORPORATION      ZIP CODE 22209</b>			
NOT APPLICABLE .....	CARD CATALOG REPRODUCTION AND DISTRIBUTION.....	3N01 LM24724-06	30,000
ORGANIZATION TOTAL      1	30,000		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>VIRGINIA—Continued</b>			
<b>BLACKSBURG</b>			
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY      ZIP CODE 24061			
MOORE, WALTER E .....	COMPARATIVE STUDIES OF FECAL FLORA.....	5N01 CP33334-07	128,724
WILKINS, TRACY D.....	RELATION OF FECAL NEUTRAL STEROLS TO LARGE BOWEL CANCER.....	5N01 CP55685-02	122,961
ORGANIZATION TOTAL      2	251,685		
<b>CHARLOTTESVILLE</b>			
UNIVERSITY OF VIRGINIA      ZIP CODE 22903			
DREIFUSS, F E.....	A COMPREHENSIVE EPILEPSY PROGRAM.....	2N01 NS52329-03	496,230
GWALTNEY, JACK M, JR.....	INFLUENZA VIRUS AND MYCOPLASMA PNEUMONIAE VACCINES.....	3N01 AI22508-05	53,891
HOWARDS, STUART S.....	EFFECT OF VASECTOMY ON TESTES, EPIDIDYMISS & VAS DEFERENS.....	5N01 HD22770-07	92,401
KATTWINKEL, JOHN.....	NEONATAL RESPIRATORY DISTRESS SYNDROME STUDIES.....	5N01 HR52962-01	177,780
KUPCHAN, S MORRIS.....	EXTRACTION OF TUMOR INHIBITORS.....	3N01 CM12099-12	15,693
KUPCHAN, S MORRIS.....	ISOLATION OF ANTINEOPLASTIC AGENTS FROM PLANTS.....	1N01 CM67002-00	212,600
MANDELL, GERALD L.....	IN VITRO TEST FOR SARCOIDOSIS.....	5N01 HR42958-02	30,815
PARSONS, I CLAIRE.....	PRODUCTION OF NURSING EDUCATIONAL MATERIALS.....	5N01 LM34131-08	100,000
SINGER, S FRED.....	STUDY OF OPTIMUM POPULATION LEVELS.....	2N01 HD22052-13	100,000
WENZEL, RICHARD P.....	TESTING OF M. PNEUMONIAE VACCINE.....	2N01 AI42512-03	40,989
ORGANIZATION TOTAL      10	1,320,399		
<b>HERNDON</b>			
EXPERIMENTAL PATHOLOGY LABORATORIES      ZIP CODE 22070			
BUSEY, WILLIAM.....	ANIMAL PATHOLOGY SUPPORT.....	1N01 CP65731-00	491,420
ORGANIZATION TOTAL      1	491,420		
<b>LURAY</b>			
MAX FOLTZ FARMS      ZIP CODE 22835			
FOLTZ, MAX S.....	MAINTENANCE OF SHEEP BREEDING COLONY.....	2N01 HI52908-01	173,080
ORGANIZATION TOTAL      1	173,080		
<b>MCLEAN</b>			
BOEING COMPANY—BOEING COMPUTER SERVICES      ZIP CODE 22101			
GARNEAU, JEAN.....	SOFTWARE SYSTEMS SUPPORT.....	1N01 LM64755-00	65,000
ORGANIZATION TOTAL      1	65,000		
JRB ASSOCIATES      ZIP CODE 22101			
DANZEISEN, RICHARD.....	RESOURCES ANALYSIS & PLANNING FOR MCP BUDGETING.....	3N01 C045425-03	463,570
HARRIS, ROBERT.....	SUPPORT SERVICES FOR NATIONAL HEART PLAN.....	2N01 HO42935-03	175,200
LEWIS, GREGORY W.....	SUPPORT SERVICES FOR THE DIVISION OF CANCER CONTROL.....	5N01 CN55200-02	1,124,050
NOVOTNEY, LAURENCE.....	DESIGN NINCDS PROGRAM INFORMATION SYSTEM.....	1N01 NS62345-00	150,000
WEIS, JOHN.....	SYSTEMS PLANNING FOR THE NCI/OD NATIONAL CANCER PROGRAM.....	5N01 C055426-02	2,166,659
ORGANIZATION TOTAL      5	4,079,479		
MITRE CORPORATION      ZIP CODE 22101			
GROVER, F T.....	DEVELOP COMPETITIVE RFP PACKAGE FOR COMPUTER SYSTEMS.....	1N01 LM64727-00	29,614
KORNREICH, MARY R.....	PREPARATION OF CARCINOGENESIS BIOASSAY REPORTS.....	1N01 CP65863-00	355,689
O'NEILL, JOHN.....	SUPPORT EVALUATION PLANNING RELATED TO CTS EXPERIMENTS.....	1N01 LM64728-00	81,911
SUMMERS, JOHN R.....	COMPUTER SYSTEMS STUDIES.....	1N01 LM64753-00	98,241
ORGANIZATION TOTAL      4	565,455		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>VIRGINIA—Continued</b>			
<b>TRW, INC.—TRW SYSTEMS GROUP</b>	<b>ZIP CODE 22101</b>		
MOEN, DONALD F.....	CONTINUED DEVELOPMENT OF NCP PROJECT ANALYSIS MODEL.....	5N01 C055318-01	148,063
STOCK, GERALD E.....	DEVELOP NCP/NCI MANAGEMENT INFORMATION SYSTEM.....	5N01 C055420-01	931,654
ORGANIZATION TOTAL	2 1,079,717		
<b>NORFOLK</b>			
<b>EASTERN VIRGINIA MEDICAL AUTHORITY—EASTERN VIRGINIA MEDICAL SCHOOL</b>	<b>ZIP CODE 23507</b>		
WRIGHT, GEORGE L, JR.....	FRACTIONATION OF ANTIGENIC COMPONENTS OF T.B. CULTURE.....	2N01 A142503-05	47,339
WRIGHT, GEORGE L, JR.....	PURIFICATION OF HUMAN TUMOR ASSOCIATED ANTIGENS.....	2N01 C853955-01	84,000
ORGANIZATION TOTAL	2 131,339		
<b>RICHMOND</b>			
<b>VIRGINIA COMMONWEALTH UNIVERSITY</b>	<b>ZIP CODE 23284</b>		
FREER, RICHARD J.....	EVALUATE PEPTIDES AS CHEMOATTRACTANTS FOR LEUCOCYTES.....	1N01 DE62494-00	63,806
GUZELIAN, PHILIP S, JR.....	STUDY PHARMACOKINETICS AND TOXICITY OF KEPONE.....	1N01 ES62117-00	94,797
KAPLAN, ALAN M.....	STUDY OF MECHANISM OF ACTION OF IMMUNOPOTENTIATORS.....	2N01 C843877-02	76,451
MAURER, HAROLD M.....	STUDY OF PHOTOTHERAPY FOR NEONATAL HYPERBILIRUBINEMIA.....	3N01 HD42820-09	46,037
MELLETTE, SUSAN J.....	REHABILITATION/CONTINUING CARE RESOURCES AND SERVICES.....	9N01 CM65287-00	315,708
RICHARDSON, DAVID W.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52914-03	104,742
ORGANIZATION TOTAL	6 701,541		
<b>SPRINGFIELD</b>			
<b>REVLOW, INC.—MELOY LABORATORIES</b>	<b>ZIP CODE 22151</b>		
GILLETTE, RONALD W.....	BIOASSAY OF MAMMARY TUMOR VIRUSES.....	2N01 CP43263-02	293,485
GILLETTE, RONALD W.....	CELL BIOLOGY FACILITIES AND TUMOR IMMUNOLOGY.....	2N01 CP53508-03	195,880
INNERARITY, THOMAS L.....	PREPARATION AND ANALYSIS OF LIPOPROTEINS.....	2N01 H132926-04	253,837
KORTRIGHT, KENNETH.....	RADIOIMMUNOASSAY OF IMMUNOGLOBULIN MOLECULES.....	1N01 CB63932-00	84,792
KORTRIGHT, KENNETH.....	NCI IMMUNODIAGNOSTIC REFERENCE CENTER.....	1N01 CB63976-00	460,656
KORTRIGHT, KENNETH.....	PREPARATION OF GONADAL CELL MEMBRANES.....	3N01 HD42849-01	115,422
LUBINIECKI, ANTHONY S.....	STUDY OF NEOPLASTIC TRANSFORMATION.....	3N01 CP43216-02	183,203
LUBINIECKI, ANTHONY S.....	STORAGE OF HUMAN TROPHOBLASTIC AND RAT LEYDIG CELLS.....	1N01 HD62821-00	163,184
PATEL, APPASAHEB R.....	PREPARE AND ANALYZE CIGARETTE SMOKE CONDENSATE SAMPLES.....	3N01 CP43361-02	28,154
ROGERS, LAYTON.....	HERPES VIRUS INDUCTION OF CERVICAL CANCER IN MONKEYS.....	2N01 NS22306-06	270,976
SLY, LEWIS D.....	SUPPORT FOR ANIMAL-CARE FACILITY.....	2N01 A132504-09	248,599
SLY, LEWIS D.....	TRANSPLACENTAL CARCINOGENESIS IN ERYTHROCEBUS PATAS.....	3N01 CP55613-01	226,806
SLY, LEWIS D.....	HOUSING AND CARE OF ANIMALS IN INFECTIOUS VIRUS STUDIES.....	2N01 NS42325-06	283,047
VERNA, JOHN E.....	SPONTANEOUS AND VIRUS-INDUCED NEOPLASTIC TRANSFORMATION.....	3N01 CP43207-08	1,296,876
VERNA, JOHN E.....	MOLECULAR STUDY OF CARCINOMA OF THE BREAST.....	2N01 CP43223-07	1,443,595
VERNA, JOHN E.....	STUDY OF NEOPLASTIC TRANSFORMATION.....	3N01 CP43236-09	977,581
ORGANIZATION TOTAL	16 6,526,093		
<b>VIENNA</b>			
<b>BOT SYSTEMS</b>	<b>ZIP CODE 22180</b>		
BROADWELL, JANET.....	ADMINISTRATIVE SERVICES FOR CONFERENCES.....	3N01 CM53774-01	371,198
ORGANIZATION TOTAL	1 371,198		
<b>HAZLETON LABORATORIES CORPORATION—HAZLETON LABORATORIES AMERICA</b>	<b>ZIP CODE 22180</b>		
BOWLES, CHARLES A.....	SHORT-TERM LEUKOCYTE CULTURES.....	3N01 CM23701-08	146,987
BOWLES, CHARLES A.....	STUDY OF BONE-MARROW TRANSPLANTATION AND IMMUNOLOGY.....	2N01 CM43702-03	637,604
BOYD, DALE D.....	STUDY OF IMMUNIZATION TO CARIES.....	3N01 DE42434-04	13,992
BOYD, DALE D.....	MAINTAINING A BREEDING COLONY OF RHESUS MONKEYS.....	5N01 RR42180-02	245,137

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>VIRGINIA—Continued</b>			
BOYO, DALE D .....	MAINTAIN A BREEDING COLONY OF RHESUS MONKEYS .....	1N61 RR62150-00	554,383
DALGARD, DANIEL W .....	SUPPORT FOR PRIMATE-BREEDING FACILITY .....	3N01 CM33708-07	456,380
DALGARD, DANIEL W .....	INDUCTION OF ADENOCARCINOMA OF THE PROSTATE .....	2N01 CP23287-03	86,804
DALGARD, DANIEL W .....	PRIMATE MODEL FOR DENTAL CARIES STUDIES .....	5N01 DE52458-02	70,729
GARGUS, JAMES L .....	IN VIVO SCREENING FOR ANTICANCER ACTIVITY .....	3N01 CM57007-01	579,487
GOOD, ROBERT C .....	STUDY OF BCG VACCINATION .....	3N01 AI22521-05	31,969
GOOD, ROBERT C .....	STUDY OF SKIN REACTIVITY OF MYCOBACTERIAL FRACTIONS .....	2N01 AI42522-04	49,140
GOOD, ROBERT C .....	DIAGNOSTIC MICROBIOLOGICAL SERVICES .....	2N01 CM33705-09	410,263
GOOD, ROBERT C .....	DETERMINATIVE AND DIAGNOSTIC MICROBIOLOGICAL STUDIES .....	1N01 CM67080-00	408,372
RUTTER, HENRY A, JR .....	BIOLOGICAL EFFECTS OF INGESTED ASBESTOS IN RATS .....	5N01 ES52158-01	241,435
VALERIO, DAVID A .....	STUDY ROLE OF VIRUSES IN EXPERIMENTAL AND HUMAN CANCER .....	9N01 CP61024-00	675,000
VALERIO, DAVID A .....	MAINTAINING A BREEDING COLONY OF RHESUS MONKEYS .....	3N01 RS42182-02	14,655
ORGANIZATION TOTAL	16 4,622,337		
<b>WILLIAMSBURG</b>			
COLLEGE OF WILLIAM AND MARY	ZIP CODE 23185		
MC KENNA, VIRGIL V .....	STUDY OF PARENTAL ATTITUDES AND CHILDREN'S PERSONALITY .....	3N01 HD42844-01	31,668
ORGANIZATION TOTAL	1 31,668		
STATE TOTAL	89 26,408,206		
<b>WASHINGTON</b>			
<b>PULLMAN</b>			
WASHINGTON STATE UNIVERSITY	ZIP CODE 99163		
BURGER, DIETER .....	DETECT CIRCULATING ANTIGEN-ANTIBODY COMPLEXES IN CANCER .....	1N01 CB63990-00	91,285
HOSICK, HOWARD L .....	DIFFERENTIATION OF MAMMARY EPITHELIAL CELLS .....	1N01 CB63986-00	28,000
NYMAN, C J .....	DEVELOPING INSTRUCTIONAL MODELS AND A SYSTEM OF SHARING .....	4N01 LM64750-00	110,982
ORGANIZATION TOTAL	3 230,267		
<b>RICHLAND</b>			
BATTELLE MEMORIAL INSTITUTE—PACIFIC NORTHWEST LABORATORIES	ZIP CODE 99352		
DAGLE, G E .....	STUDY OF IMPLANTATION OF LUNG PELLETS .....	2N01 CP33374-04	59,697
WILDUNG, RAYMOND E .....	FATE OF HEAVY METALS IN SOILS AND PLANTS .....	2N01 ES22043-10	97,559
ZWICKER, GARY M .....	INHALATION BIOASSAY OF CIGARETTE SMOKE .....	5N01 CP43315-02	1,518,508
ORGANIZATION TOTAL	3 1,675,764		
<b>SEATTLE</b>			
BATTELLE MEMORIAL INSTITUTE	ZIP CODE 98105		
MARINI, MARGARET M .....	CONSEQUENCES OF CHILDBEARING AND CHILDSACING PATTERNS .....	2N01 HD52840-03	97,885
ORGANIZATION TOTAL	1 97,885		
CHILDREN'S ORTHOPEDIC HOSPITAL AND MEDICAL CENTER	ZIP CODE 98105		
BERNSTEIN, ILENE .....	ROLE OF LEARNED FOOD AVERSIONS IN THE CANCER PATIENT .....	1N01 CP65790-00	44,153
ORGANIZATION TOTAL	1 44,153		
FRED HUTCHINSON CANCER RESEARCH CENTER	ZIP CODE 98104		
HAKOMORI, SEN-TIHOH .....	BIOCHEMISTRY OF NORMAL AND TUMOR CELL SURFACE ANTIGENS .....	1N01 CB64067-00	60,297
HELLSTROM, KARL E .....	IMMUNOTHERAPEUTICAL TRIALS WITH HUMAN TUMORS .....	9N01 CB64018-00	180,971



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>WASHINGTON—Continued</b>			
HELLSTROM, KARL E.....	TUMOR SPECIFIC TRANSPLANTATION ANTIGENS IN TUMORS.....	2N01 CP53570-02	153,535
HUTCHINSON, WILLIAM.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CN55233-01	16,589
NOWINSKI, ROBERT C.....	AN IMMUNOGENETIC ANALYSIS OF MOUSE LEUKEMIA VIRUSES.....	1N01 CP61009-00	100,433
SCRIBNER, JOHN D.....	METABOLISM OF CARCINOGENIC COMPOUNDS.....	5N01 CP55719-01	32,471
THOMAS, E DONNALL.....	EVALUATE TYPING TECHNIQUE ON BONE MARROW TRANSPLANTATION.....	2N01 AI52515-01	77,521
THOMPSON, DONOVAN J.....	SUPPORT FOR CANCER CENTER.....	3N01 CP33246-06	40,768
THOMPSON, DONOVAN J.....	SUPPORT FOR A CANCER SURVEILLANCE SYSTEM.....	9N01 CP61059-00	580,100
ORGANIZATION TOTAL	9	1,242,685	
<b>PROVIDENCE MEDICAL CENTER ZIP CODE 08122</b>			
MANSFIELD, PETER B.....	DEVELOPMENT OF INTIMAL LININGS.....	3N01 HV12060-15	210,792
ORGANIZATION TOTAL	1	210,792	
<b>UNIVERSITY OF WASHINGTON ZIP CODE 98195</b>			
ALEXANDER, E RUSSELL.....	DIAGNOSTIC APPLICATIONS OF HUMAN TUMOR ANTIGENS.....	1N01 CB64068-00	100,685
ANDERSEN, NIELS H.....	SYNTHESIS OF LUTEOLYTIC PROSTANOIDS.....	2N01 HD42839-01	26,008
BABB, ALBERT L.....	RED CELL DISTRIBUTIONS IN CYANATE-TREATED BLOOD.....	1N01 HB62962-00	90,000
BAGDADE, JOHN D.....	STUDY OF HYPERLIPIDEMIA AND ATHEROGENESIS.....	3N01 AM32212-06	29,057
BENNETT, ROGER.....	DEVELOP AND SUPPORT A CTS FACILITY.....	1N01 LM64743-00	16,584
BLAKELY, GERALD.....	PROVISION OF TIMED PREGNANT BABOONS, PAPIO CYNOCEPHALUS.....	1N01 RS62123-00	6,000
BLANDAU, RICHARD J.....	STUDY OF FUNCTIONS OF THE OVIDUCT.....	2N01 HD32788-04	187,090
BLANDAU, RICHARD J.....	STUDY OF DETECTION OF OVULATION.....	2N01 HD32791-07	108,041
BLANDAU, RICHARD J.....	STUDY OF SPERM TRANSPORT THROUGH CERVICAL MUCUS.....	2N01 HD42826-04	36,295
BOWDEN, DOUGLAS M.....	MACACA NEMESTRINA AS A MODEL OF AGING IN MAN.....	1N01 AG62145-00	20,479
BURNELL, JAMES M.....	STUDY OF ACID-BASED CHEMISTRY IN HUMAN BONE.....	2N01 AM32208-05	86,558
CHRISTOPHER, GRAHAM T.....	CLINICAL RESEARCH DATA MANAGEMENT AND ANALYSIS SYSTEM.....	5N01 RR52117-01	81,737
ENWONWU, CYRIL.....	NUTRITION ON THE EPITHELIUM OF ORAL MUCOUS MEMBRANES.....	5N01 DE42442-03	104,172
FISHER, LLOYD D.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	3N01 HV32973-09	113,999
FOY, HUORDIS M.....	INFLUENZA SURVEILLANCE AND VACCINE EVALUATION.....	1N01 AI62511-00	254,364
HOFFMAN, ALLAN S.....	INTERACTION OF NATURAL & MODIFIED BIOPOLYMERS WITH BLOOD.....	2N01 HV42970-03	95,240
HOOVER, J JOANNE.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....	5N01 HV52922-02	65,201
KIEHN, EDWARD D.....	ORGANIZ. & DYNAMICS OF CELL SURFACE MEMBRANE COMPONENTS.....	2N01 CB43987-02	29,981
LEHMANN, JUSTUS F.....	SUPPORT FOR CANCER REHABILITATION FACILITY.....	5N01 CN45039-02	249,803
LOCKARD, JOAN S.....	STUDY EXPERIMENTAL ANTIEPILEPTIC DRUGS.....	5N01 NS12282-13	450,716
LOVELY, RICHARD H.....	EFFECTS OF MICROWAVE RADIATION ON THE NERVOUS SYSTEM.....	1N01 ES62133-00	78,432
MC LEAN, EDWARD B.....	CLINICAL STUDY OF DIABETIC RETINOPATHY.....	5N01 EY42128-04	129,451
MINIFIE, FRED D.....	RELATION OF HEARING IMPAIRMENT & LANGUAGE DISABILITY.....	5N01 HD32793-03	238,388
NOT APPLICABLE.....	DOCUMENTATION OF ATS-F HEALTH EXPERIMENTS.....	3N01 LM34733-06	30,296
NOT APPLICABLE.....	REGIONAL MEDICAL LIBRARY PROGRAM SERVICES.....	5N01 LM54729-01	253,338
NUTE, PETER E.....	PREPARATION OF ANTISERA.....	3N01 ES42151-05	146,208
PAULSEN, C ALVIN.....	CONTRACEPTIVE DEVELOPMENT STUDIES FOR MALES.....	5N01 HD12234-12	108,468
PAULSEN, C ALVIN.....	CONTRACEPTIVE DEVELOPMENT STUDIES FOR MALES.....	1N01 HD62815-00	236,966
SCHMER, GOTTFRIED.....	HEMODIALYSES OF ARTIFICIAL KIDNEYS.....	3N01 AM42201-03	69,928
SCRIBNER, BELDING H.....	STUDY OF PERIPHERAL NEUROPATHY.....	3N01 AM12119-10	160,000
SCRIBNER, BELDING H.....	RESEARCH ON ARTIFICIAL KIDNEY.....	3N01 AM60963-22	100,665
SILVERSTEIN, FRED E.....	ENDOSCOPIC CONTROL OF MASSIVE BLEEDING IN PATIENTS.....	5N01 AM52211-01	149,800
STORB, RAINER F.....	IMMUNOLOGICAL AND TRANSPLANTATION STUDIES.....	3N01 CP33236-04	20,000
TROUPIN, ALLAN S.....	CARBAMAZEPINE IN THE TREATMENT OF EPILEPSY.....	2N01 NS02281-08	210,000
WARD, ARTHUR A, JR.....	FEASIBILITY STUDY FOR COMPREHENSIVE EPILEPSY PROGRAM.....	3N01 NS42315-03	49,648
WARD, ARTHUR A, JR.....	COMPREHENSIVE EPILEPSY PROGRAM.....	1N01 NS62341-00	728,750
WOOTON, PETER B.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	2N01 CN45158-05	121,089
ORGANIZATION TOTAL	37	4,983,437	
<b>VIRGINIA MASON RESEARCH CENTER ZIP CODE 98101</b>			
CARLILE, THOMAS.....	DETECTION OF BREAST CANCER.....	3N01 CN35028-05	8,122
CARLILE, THOMAS.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55304-01	621,571
SUTTON, DWIGHT.....	INFANT PRIMATE UPPER AIRWAY—ANATOMY AND PHYSIOLOGY.....	5N01 HD42870-02	10,000
ORGANIZATION TOTAL	3	639,693	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>WASHINGTON—Continued</b>			
<b>WASHINGTON DEPARTMENT OF SOCIAL AND HEALTH SERVICES      ZIP CODE 98102</b>			
BEARE, JOHN A.....	CERVICAL CANCER SCREENING PROGRAM.....	5N01 CN55265-03	90,000
ORGANIZATION TOTAL	1      90,000		
<b>WALLA WALLA</b>			
<b>ST. MARY COMMUNITY HOSPITAL      ZIP CODE 99362</b>			
CONNELL, ROBERT M.....	CLINICAL ONCOLOGY PROGRAM.....	1N01 CN65292-00	69,531
ORGANIZATION TOTAL	1      69,531		
STATE TOTAL	60      9,284,207		
<b>WEST VIRGINIA</b>			
<b>AUGUSTA</b>			
<b>MOUNT PLEASANT BOOKBINDER      ZIP CODE 26704</b>			
NOT APPLICABLE.....	REPAIR, RESTORATION AND CUSTOM REBINDING OF RARE BOOKS.....	2N01 LM54712-01	6,000
ORGANIZATION TOTAL	1      6,000		
<b>MORGANTOWN</b>			
<b>WEST VIRGINIA UNIVERSITY      ZIP CODE 26506</b>			
INSKEEP, EMMETT K.....	ENDOMETRIAL PROSTAGLANDINS AND LUTEAL FUNCTION.....	3N01 HD52815-01	5,000
THOMAS, JOHN A.....	PITUITARY HORMONES, ANDROGENS AND PROSTATE METABOLISM.....	2N01 CP43230-03	62,891
VELTRI, ROBERT W.....	STUDY OF TUMOR-ASSOCIATED ANTIGENS IN LUNG CANCER.....	2N01 CB43890-02	133,400
ORGANIZATION TOTAL	3      201,291		
STATE TOTAL	4      207,291		
<b>WISCONSIN</b>			
<b>MADISON</b>			
<b>ENDOCRINE LABORATORIES OF MADISON      ZIP CODE 53713</b>			
DAVIS, JAMES.....	EFFECT OF CERTAIN AGENTS ON REPRODUCTIVE TRACT FUNCTIONS.....	1N01 ES62111-00	206,986
ORGANIZATION TOTAL	1      206,986		
<b>MOGUL CORPORATION      ZIP CODE 53713</b>			
FORTNEY, ROGER D.....	OPERATION OF A GERMFREE RODENT COLONY.....	5N01 CM53813-02	1,627,047
FORTNEY, ROGER D.....	MAINTENANCE OF RODENT PRODUCTION CENTER.....	5N01 CM53846-01	227,675
ORGANIZATION TOTAL	2      1,854,722		
<b>UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON      ZIP CODE 53706</b>			
BLATTNER, FREDERICK R.....	CONSTRUCTION OF PHAGE CLONING VECTORS FOR E. COLI HOSTS.....	1N01 AI62506-00	44,718
BRANDENBURG, JAMES H.....	DEMONSTRATION PROJECT FOR HEAD AND NECK CANCER.....	2N01 CN45130-02	169,696
CAMERON, JOHN R.....	CANCER CONTROL RADIOLOGIC PHYSICS CENTERS.....	2N01 CN45152-03	177,140
DAVIS, MATTHEW D.....	STUDY OF DIABETIC RETINOPATHY.....	3N01 EY32130-04	215,378
EASTERDAY, BERNARD C.....	STUDY OF INTERFERON AND INTERFERON INDUCERS.....	2N01 AI02132-08	66,198
GORMICAN, ANNETTE T.....	DIETETIC PRACTICES USED IN FEEDING CANCER PATIENTS.....	1N01 CP65784-00	30,485
HEIDELBERGER, CHARLES D.....	10T 1/2 CELL CULTURE ASSAY FOR CARCINOGENESIS SCREENING.....	1N01 CP65735-00	57,684
KELLERMAN, GOTTFRIED.....	INDUCE ARYL HYDROCARBON HYDROXYLASE IN HUMAN LYMPHOCYTES.....	1N01 CP65734-00	184,634

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>WISCONSIN—Continued</b>			
KOLTHOFF, NORMA J.....	ONCOLGY NURSING PROGRAMS IN CANCER CENTERS.....	5N01 CN45115-03	127,008
KORNGUTH, STEVEN E.....	ETIOLOGY AND DIAGNOSIS OF MULTIPLE SCLEROSIS.....	5N01 NS42308-02	86,370
MYERS, FRANK L.....	STUDY OF DIABETIC RETINOPATHY.....	5N01 EY32121-03	222,201
PERLMAN, DAVID.....	BIOAUTOGRAPHIC STUDIES OF CYTOTOXIC PLANT SAMPLES.....	3N01 CM33733-05	685
PERLMAN, DAVID.....	CELL CULTURE SCREENING OF NEW MATERIALS FOR CYTOTOXICITY.....	1N01 CM67076-00	56,262
RANKIN, JOHN.....	PREVALENCE OF SPECIFIC HLA ANTIGENS AND LUNG DISEASE.....	1N01 HR62936-00	220,000
ROSE, DAVID P.....	EFFECT OF ORAL CONTRACEPTIVES ON VITAMIN B6.....	2N01 HD22782-05	36,830
RUSCH, HAROLD P.....	COMPREHENSIVE CANCER CENTER COMMUNICATIONS NETWORK.....	3N01 CN55228-01	82,792
RUSCH, HAROLD P.....	PLANNING FOR A COMMUNITY BASED CANCER CONTROL PROGRAM.....	3N01 CN55270-03	15,000
SIEDBAND, MELVIN P.....	DEVELOPMENT & TESTING OF SYSTEM TO IMPROVE X-RAY IMAGING.....	5N01 CB53914-01	77,138
SMITHIES, OLIVER.....	BIOCHEMISTRY OF NORMAL AND TUMOR CELL SURFACE ANTIGENS.....	2N01 CB43986-02	68,935
UPDIKE, STUART J.....	CLINICAL EVALUATION OF BLOOD GAS SENSORS.....	2N01 HR52950-01	62,000
WELLS, ROBERT D.....	PREPARATION AND CHARACTERIZATION OF HYBRID POLYMERS.....	2N01 CM12275-05	55,144
ZACHMAN, RICHARD.....	ANTENATAL STEROID THERAPY IN THE PREVENTION OF RDS.....	1N01 HR62952-00	6,270
ORGANIZATION TOTAL	22	2,062,568	
<b>WISCONSIN ALUMNI RESEARCH FOUNDATION ZIP CODE 53705</b>			
COON, FRANCIS B.....	PREPARATION OF PLANT EXTRACTS.....	5N01 CM43707-06	224,746
ORGANIZATION TOTAL	1	224,746	
<b>WISCONSIN STATE DEPARTMENT OF HEALTH AND SOCIAL SERVICES ZIP CODE 53702</b>			
DOHERTY, JOSEPH M.....	COMMUNITY CARES PREVENTION DEMONSTRATION PROJECT.....	3N01 DE52465-01	2,300
ORGANIZATION TOTAL	1	2,300	
<b>MARSHFIELD</b>			
<b>MARSHFIELD MEDICAL FOUNDATION ZIP CODE 54449</b>			
SAUTTER, RICHARD D.....	CLINICAL TRIALS OF SULFINPYRAZONE.....	3N01 HB42977-03	45,343
SAUTTER, RICHARD D.....	COLLABORATIVE STUDIES ON CORONARY ARTERY SURGERY.....	3N01 HV32981-08	22,767
ORGANIZATION TOTAL	2	68,110	
<b>MILWAUKEE</b>			
<b>ALDRICH CHEMICAL COMPANY ZIP CODE 53233</b>			
LI, JORGE.....	PREPARATION OF BULK CHEMICALS AND DRUGS.....	5N01 CM23706-05	191,815
ORGANIZATION TOTAL	1	191,815	
<b>MEDICAL COLLEGE OF WISCONSIN ZIP CODE 53233</b>			
GRAUSZ, JOHN P.....	MEASURE PULMONARY FUNCTION IN INFANTS AND CHILDREN.....	1N01 HR62902-00	173,390
GROSSBERG, SIDNEY E.....	SUPPLY OF INTERFERONS AS STANDARD REFERENCE REAGENTS.....	2N01 AI42514-03	41,154
GROSSBERG, SIDNEY E.....	STUDY OF STABILITY OF HUMAN INTERFERON.....	2N01 AI42520-02	67,411
MILBRATH, JOHN R.....	BREAST CANCER DETECTION DEMONSTRATION PROJECT.....	2N01 CN55308-01	378,909
RIMM, ALFRED A.....	MAINTAIN INTERNATIONAL BONE MARROW TRANSPLANT REGISTRY.....	1N01 HB62964-00	58,280
RODEY, GLENN E.....	SPECIFIC HLA ANTIGENS IN PIGEON BREEDERS' DISEASE.....	1N01 HR62940-00	23,859
SANCES, ANTHONY, JR.....	NMR CONCEPTS AND DEVELOPMENT OF BIOLOGICAL FLOW.....	2N01 HI02216-07	189,424
ORGANIZATION TOTAL	7	932,427	
<b>MILWAUKEE BLOOD CENTER ZIP CODE 53233</b>			
ASTER, RICHARD H.....	STUDY OF PLATELET-TYPING.....	2N01 HB32956-06	159,920
ORGANIZATION TOTAL	1	159,920	
<b>MOUNT SINAI MEDICAL CENTER ZIP CODE 53233</b>			
BORTIN, MORTIMER M.....	STUDY OF GRAFTS AND TUMORS OF CARCINOMA.....	3N01 CB33853-02	16,900
BORTIN, MORTIMER M.....	INTERNATIONAL BONE MARROW TRANSPLANT REGISTRY.....	1N01 HB62963-00	149,860
ORGANIZATION TOTAL	2	166,760	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract		Contract No.	Dollars
WISCONSIN—Continued				
STATE TOTAL	40	5,870,354		
WYOMING				
CHEYENNE				
WYOMING STATE DEPARTMENT OF HEALTH AND SOCIAL SERVICES		ZIP CODE 82001		
PARISH, HERMAN S.....	IMPLEMENTATION FOR A CERVICAL CANCER SCREENING PROGRAM.....		1N01 CN65261-00	166,659
ORGANIZATION TOTAL	1	166,659		
STATE TOTAL	1	166,659		
PUERTO RICO				
SAN JUAN				
PUERTO RICO DEPARTMENT OF HEALTH		ZIP CODE 00908		
MARTINEZ, ISIDRO.....	CERVICAL CANCER SCREENING PROGRAM—PUERTO RICO.....		5N01 CN55075-03	212,000
MARTINEZ, ISIDRO.....	CANCER SURVEY IN THE PUERTO RICO AREA.....		2N01 CP43386-05	77,238
ORGANIZATION TOTAL	2	289,238		
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS		ZIP CODE 00936		
BERROCAL, JOSE.....	CLINICAL STUDY OF DIABETIC RETINOPATHY.....		5N01 EY42142-04	122,325
GARCIA-PALMIERI, MARIO R.....	EPIDEMIOLOGICAL STUDIES OF CORONARY HEART DISEASE.....		2N01 HV42902-04	363,194
GARCIA-PALMIERI, MARIO R.....	CLINICAL CENTER FOR ASPIRIN-MYOCARDIAL INFARCTION STUDY.....		5N01 HV52910-02	91,617
KERBER, WILLIAM T.....	RESEARCH AND BREEDING OF NONHUMAN PRIMATES.....		2N01 RR52110-05	585,502
KERBER, WILLIAM T.....	DOMESTIC SQUIRREL MONKEY PRODUCTION.....		5N01 RR52133-01	54,131
OQUENDO, FRANCISCO HERNANDEZ.....	TRAINING PREVENTIVE DENTISTRY AIDES.....		5N01 DE52480-02	135,258
ORGANIZATION TOTAL	6	1,352,027		
STATE TOTAL	8	1,641,265		
TRUST PACIFIC				
SAIPAN				
TRUST TERRITORY OF THE PACIFIC ISLANDS DEPARTMENT OF HEALTH SERVICES 96950				
KUMANGI, MASAO.....	TRUST TERRITORY CERVICAL CANCER SCREENING PROGRAM.....		5N01 CN55168-01	82,576
ORGANIZATION TOTAL	1	82,576		
STATE TOTAL	1	82,576		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>OTHER COUNTRIES</b>			
<b>ARGENTINA</b>			
<b>BUENOS AIRES</b>			
<b>UNIVERSITY OF BUENOS AIRES</b>			
ROJAS, ALEJANDRO F.....	LEVAMISOLE IN THE TREATMENT OF SQUAMOUS CELL CARCINOMA.....	1N01 CB64063-00	78,495
ORGANIZATION TOTAL	1	78,495	
STATE TOTAL	1	78,495	
<b>AUSTRALIA</b>			
<b>PARKVILLE</b>			
<b>UNIVERSITY OF MELBOURNE</b>			
MC KENZIE, I F.....	SEROLOGIC AND IMMUNOGENETIC INVESTIGATIONS.....	2N01 CB43925-02	50,456
METCALF, DONALD.....	GRANULOCYTE AND MACROPHAGE PROLIFERATION IN LEUKEMIA.....	2N01 CB33854-02	127,378
MILLER, J F.....	TRANSFER FACTOR AND DELAYED HYPERSENSITIVITY IN MOUSE.....	1N01 CB63992-00	42,335
NOSSAL, GUSTAV J.....	ROLE OF T AND B LYMPHOCYTES IN TUMOR IMMUNITY.....	2N01 CB23889-03	135,300
ORGANIZATION TOTAL	4	355,469	
<b>SYDNEY</b>			
<b>ROYAL NORTH SHORE HOSPITAL</b>			
NELSON, D S.....	ROLE OF THE MACROPHAGE IN TUMOR RESISTANCE.....	1N01 CB63973-00	74,184
ORGANIZATION TOTAL	1	74,184	
STATE TOTAL	5	429,653	
<b>AUSTRIA</b>			
<b>SALZBURG</b>			
<b>AUSTRIAN ACADEMY OF SCIENCES—INSTITUTE FOR MOLECULAR BIOLOGY</b>			
KRATOCHWILL, KLAUS.....	RESPONSE OF EMBRYO MAMMARY GLAND TO ANDROGENIC HORMONES.....	2N01 CB33883-04	50,000
ORGANIZATION TOTAL	1	50,000	
STATE TOTAL	1	50,000	
<b>BELGIUM</b>			
<b>BRUSSELS</b>			
<b>EUROPEAN ORGANIZATION FOR RESEARCH ON TREATMENT OF CANCER</b>			
TAGNON, H J.....	CANCER CHEMOTHERAPY RESEARCH COLLABORATIVE OFFICE.....	5N01 CM53840-01	62,700
ORGANIZATION TOTAL	1	62,700	
STATE TOTAL	1	62,700	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CANADA</b>			
<b>HALIFAX</b>			
<b>DALHOUSIE UNIVERSITY</b>			
RAUTAHARJU, P. M.	SUPPORT FOR ECG CENTER FOR PREVENTION OF HEART DISEASE.....	3N01 HV42911-03	197,371
ORGANIZATION TOTAL	1	197,371	
<b>HAMILTON</b>			
<b>MC MASTER UNIVERSITY</b>			
BARROWS, HOWARD S.	NEUROLOGICAL SCIENCES PROBLEM-BASED LEARNING UNITS .....	1N01 LM64721-00	69,334
SINCLAIR, JOHN C.	NEONATAL RESPIRATORY INSUFFICIENCY AND FAILURE.....	5N01 HR52959-01	72,500
WITELSON, SANDRA F.	NEUROANATOMY IN THE HUMAN TEMPORAL LOBES.....	1N01 NS62344-00	71,000
ORGANIZATION TOTAL	3	212,834	
<b>LONDON</b>			
<b>UNIVERSITY OF WESTERN ONTARIO</b>			
STREJAN, GILL H.	PRODUCTION OF ALLERGENS FROM ASCARIS SUUM .....	3N01 AI42500-03	400
ORGANIZATION TOTAL	1	400	
<b>MONTREAL</b>			
<b>MC GILL UNIVERSITY</b>			
MACKLEN, P. T.	STANDARDIZATION OF MEASUREMENT OF CLOSING VOLUME.....	2N01 HR32902-03	242,820
STAMM, J. W.	ROOT SURFACE CARIES IN FLUORIDATED AREAS .....	1N01 DE62492-00	17,400
ORGANIZATION TOTAL	2	260,220	
<b>MONTREAL HEART INSTITUTE</b>			
BOURASSA, MARTIAL G.	COLLABORATIVE STUDY OF SURGERY ON CORONARY ARTERIES.....	3N01 HV32983-06	78,762
ORGANIZATION TOTAL	1	78,762	
<b>TORONTO</b>			
<b>HOSPITAL FOR SICK CHILDREN</b>			
MC CLURE, PETER D.	COLLECT BLOOD SPECIMENS AND SOLID TUMOR MATERIALS.....	9N01 CP61040-00	17,350
ORGANIZATION TOTAL	1	17,350	
<b>ONTARIO CANCER INSTITUTE</b>			
SMINOVITCH, LOUIS.	SUPPLY OF MUTANT VERTEBRATE CELLS .....	3N01 CP43331-04	196,000
ORGANIZATION TOTAL	1	196,000	
<b>UNIVERSITY OF TORONTO</b>			
SESSLE, BARRY J.	NEURAL MECHANISM IN FUNCTIONS OF UPPER RESPIRATORY TRACT.....	5N01 HD52812-01	97,967
ORGANIZATION TOTAL	1	97,967	
<b>VANCOUVER</b>			
<b>UNIVERSITY OF BRITISH COLUMBIA</b>			
KUTNEY, JAMES P.	SYNTHESIS OF VINBLASTINE AND VINCRISTINE .....	5N01 CM23223-05	103,666
ORGANIZATION TOTAL	1	103,666	

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>CANADA—Continued</b>			
<b>WINNIPEG</b>			
<b>UNIVERSITY OF MANITOBA</b>			
ANTHONISEN, NICHOLAS R .....	STUDY NOCTURNAL OXYGEN THERAPY IN HYPOXIC LUNG DISEASE.....	1N01 HR62943-00	10,250
CHEERNACK, REUBEN M .....	STUDY TO STANDARDIZE THE MEASUREMENT OF CLOSING VOLUME.....	2N01 HR32903-05	230,450
FRIESEN, HENRY G .....	STUDY OF HUMAN PROLACTIN .....	2N01 CP43250-04	62,125
RIGATTO, HENRIQUE .....	ANTENATAL STEROID THERAPY IN THE PREVENTION OF RDS.....	1N01 HR62949-00	11,110
ORGANIZATION TOTAL	4	313,935	
STATE TOTAL	16	1,478,505	
<b>CHINA REPUBLIC</b>			
<b>TAIPEI</b>			
<b>DONALD DEXTER VAN SLYKE MEMORIAL FOUNDATION</b>			
PHILLIPS, ROBERT A .....	GI DIALYSIS AS ADJUNCT TO THERAPY OF RENAL FAILURE .....	1N01 AM62210-00	86,835
ORGANIZATION TOTAL	1	86,835	
STATE TOTAL	1	86,835	
<b>COLOMBIA</b>			
<b>CALI</b>			
<b>UNIVERSITY OF VALLE</b>			
CUELLO, CARLOS .....	GEOGRAPHICAL PATHOLOGY AND EPIDEMIOLOGY OF CANCER.....	2N01 CP33286-05	90,102
DUENAS, ALVARO .....	HLA AND LYMPHOMA CASE CONTROL STUDY IN COLUMBIA .....	1N01 CP61037-00	19,500
ORGANIZATION TOTAL	2	109,602	
STATE TOTAL	2	109,602	
<b>FINLAND</b>			
<b>HELSINKI</b>			
<b>CENTRAL PUBLIC HEALTH LABORATORY</b>			
MAKELA, P HELENA .....	CONDUCTING A FIELD TRIAL OF MENINGOCOCCUS VACCINE .....	2N01 AIS2502-02	99,600
ORGANIZATION TOTAL	1	99,600	
<b>UNIVERSITY OF HELSINKI</b>			
HAYRY, PEKKA J .....	T MEMORY CELL MECHANISMS.....	1N01 CB63977-00	20,000
HAYRY, PEKKA J .....	EFFECTOR MECHANISMS IN CANCER REJECTION.....	1N01 CB64032-00	50,000
MAKELA, V E OLAVI .....	SPECIFICITY OF ANTIGEN-BINDING RECEPTORS ON T-CELLS .....	2N01 CB43923-02	28,800
ORGANIZATION TOTAL	3	98,800	
<b>TURKU</b>			
<b>UNIVERSITY OF TURKU</b>			
HAKKUNEN, ILKKA P .....	SCREENING FOR GASTRIC CANCER.....	1N01 CB64070-00	36,160
TOIVANEN, PAAVO .....	MECHANISMS OF LYMPHOID CELL DIFFERENTIATION.....	2N01 CB43971-02	115,000

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>FINLAND—Continued</b>				
ORGANIZATION TOTAL	2	151,160		
STATE TOTAL	6	349,560		
<b>FRANCE</b>				
<b>LYON</b>				
<b>WORLD HEALTH ORGANIZATION—INTERNATIONAL AGENCY FOR RESEARCH ON CANCER</b>				
AGTHE, C.....		THE EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN.....	5N01 CP45608-04	219,500
DAY, N E.....		PERFORMANCE OF A STUDY ON FAMILIARITY OF BREAST CANCER.....	2N01 CB43973-02	32,000
DE THE, G BLAUDIN.....		SEROEPIDEMIOLOGICAL STUDY OF CARCINOMA AND LYMPHOMA.....	2N01 CP43296-06	600,000
KMET, JANEZ.....		ETIOLOGY OF ESOPHAGUS CANCER IN CASPIAN LITTORAL OF IRAN.....	2N01 CP43342-04	113,100
MUIR, C S.....		CLEARINGHOUSE FOR ON-GOING WORK IN CANCER EPIDEMIOLOGY.....	5N01 C055195-01	63,075
PRICHARD, W A.....		ALTERATIONS & RENOVATIONS TO INTERNATIONAL AGENCY.....	1N01 CB64026-00	330,000
TOMATIS, LORENZO.....		SIGNIFICANCE OF EXPERIMENTAL CARCINOGENESIS DATA.....	3N01 CP55630-01	43,550
ORGANIZATION TOTAL	7	1,401,225		
<b>PARIS</b>				
<b>INSTITUTE OF LIFE</b>				
MAROIS, MAURICE.....		CONFERENCE: BIRTH DEFECTS-DETECTION AND PREVENTION.....	1N01 CP61030-00	30,000
ORGANIZATION TOTAL	1	30,000		
<b>ST. LOUIS HOSPITAL</b>				
BOIRON, MICHEL.....		MOLECULAR VIROLOGY STUDIES OF HUMAN LEUKEMIAS.....	3N01 CP33365-04	20,000
ORGANIZATION TOTAL	1	20,000		
STATE TOTAL	9	1,451,225		
<b>GERMANY, FED R</b>				
<b>HANOVER</b>				
<b>HANOVER UNIVERSITY OF MEDICINE</b>				
MOHR, ULRICH.....		DEVELOP LUNG TUMOR MODEL.....	2N01 CP12148-05	80,000
ORGANIZATION TOTAL	1	80,000		
STATE TOTAL	1	80,000		
<b>ISRAEL</b>				
<b>JERUSALEM</b>				
<b>HEBREW UNIVERSITY OF JERUSALEM</b>				
BECKER, YECHIEL.....		STUDY OF ROLE OF HERPES VIRUS (EBV) IN HUMAN CANCER.....	3N01 CP33310-05	126,389
GOLDBLUM, NATAN.....		STUDY OF HODGKIN'S DISEASE.....	2N01 CP33342-04	150,000
HARLAP, SUSAN.....		STUDYING OF EFFECT OF ORAL CONTRACEPTIVES.....	3N01 HD42853-04	130,033
KEDAR, ELI.....		IMMUNOTHERAPY OF MURINE LEUKEMIAS.....	1N01 CB64050-00	79,182
ROBIN, GORDON.....		OSTEOPOROSIS: RELATIONSHIP OF NUTRITIONAL FACTORS.....	3N01 AM32204-04	126,264
STEIN, W D.....		STUDIES OF MAMMALIAN CELL TRANSPORT SYSTEMS.....	2N01 CP43307-02	42,330

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ISRAEL—Continued</b>			
STEIN, YEchezkiel .....	ESTABLISHMENT OF A LIPID RESEARCH CLINIC .....	2N01 HV53015-04	224,500
WEISS, DAVID W. ....	PRE-CLINICAL STUDIES ON TUMOR PROTECTIVE ACTIVITY OF MER .....	2N01 CB02208-05	179,098
WEISS, DAVID W. ....	ANTITUMOR RESISTANCE BY EXTRACT OF TUBERCLE BACILLI.....	2N01 CM12127-06	107,450
ORGANIZATION TOTAL	9	1,165,246	
<b>ISRAELI MINISTRY OF HEALTH—CENTER OF REGISTRATION OF CANCER AND ALLIED DISEASES</b>			
KATZ, LEAH H. ....	STUDY OF CANCER INCIDENCE .....	2N01 CP33351-04	59,895
ORGANIZATION TOTAL	1	59,895	
<b>REHOVOTH</b>			
<b>WEIZMANN INSTITUTE OF SCIENCE</b>			
ARNON, RUTH .....	ANTIBODY-DRUG CONJUGATES IN THE IMMUNOTHERAPY .....	1N01 CB64049-00	92,250
COHEN, IRUN R. ....	TUMOR AVOIDANCE OF DESTRUCTION BY THE IMMUNE SYSTEM.....	1N01 CB63982-00	153,625
FELDMAN, MICHAEL.....	IN VITRO SENSITIZATION OF HUMAN LYMPHOCYTES .....	1N01 CB63979-00	150,456
MECHAMA, HARAN-GHERA .....	MECHANISMS BY WHICH TUMORS AVOID IMMUNE DESTRUCTION .....	2N01 CB43930-02	120,000
REVEL, MICHEL .....	STUDY OF ALTERATION IN TRANSLATION OF GENETIC MESSAGES .....	2N01 CP33220-04	144,900
SACHS, LEO .....	INVESTIGATE ASPECTS OF LUNG CANCER INCIDENCE.....	3N01 CP02217-06	189,355
SHAPIRO, DAVID .....	PRODUCE 3 RADIOLABELED GLYCOLIPID SUBSTANCES .....	2N01 NS52300-02	88,050
SILBERBERG, ALEXANDER .....	STUDIES ON INTERACTIONS OF PLATELETS WITH COLLAGENS .....	5N01 HV52907-01	86,000
TRAININ, NATHAN.....	THYMIC PRODUCTS FOR LYMPHOCYTE DIFFERENTIATION.....	2N01 CB53926-01	71,500
ORGANIZATION TOTAL	9	1,096,136	
<b>TEL AVIV</b>			
<b>TEL AVIV UNIVERSITY</b>			
FRENSDORFF, ASHER.....	VACCINATION OF MICE WITH CELL FREE ANTIGENS .....	3N01 CP53517-01	31,124
WITZ, ISAAC P. ....	STUDY OF TUMOR CELL AND IMMUNOGLOBIN INTERACTIONS.....	2N01 CB43858-02	52,958
ORGANIZATION TOTAL	2	84,082	
<b>TEL HASHOMER</b>			
<b>CHIAM SHEBA MEDICAL CENTER</b>			
MODAN, BARUCH .....	CORRELATION OF DIET EPIDEMIOLOGY OF BREAST CANCER .....	2N01 CB53883-01	67,050
ORGANIZATION TOTAL	1	67,050	
STATE TOTAL	22	2,472,409	
<b>ITALY</b>			
<b>MILAN</b>			
<b>FARMITALIA</b>			
ARCAMONE, FEDERICO MARIA.....	DERIVATIVES AND ANALOGS OF DOXORUBICIN.....	5N01 CM57014-01	179,082
LUIGI, BERNARDI .....	DESIGN AND SYNTHESIS OF AGLYCONES TO DOXORUBICINONE .....	5N01 CM57036-01	175,622
ORGANIZATION TOTAL	2	354,704	
<b>MARIO NEGRI INSTITUTE FOR PHARMACOLOGICAL RESEARCH</b>			
GARATTINI, SILVIO .....	COLLECTION AND SCREENING OF ANTINEOPLASTIC AGENTS.....	2N01 CM33720-04	179,100
GARATTINI, SILVIO .....	ANTINEOPLASTIC DRUG KINETICS.....	1N01 CM67064-00	67,482
GARATTINI, SILVIO .....	COMPARATIVE PHARMACOLOGY OF STEROID CONTRACEPTIVE DRUGS.....	3N01 HD22733-06	140,414
SPREAFICO, FEDERICO .....	STUDIES IN IMMUNOCHEMOTHERAPY RESEARCH .....	5N01 CM53826-02	86,436
ORGANIZATION TOTAL	4	473,432	



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>ITALY—Continued</b>			
<b>NATIONAL CANCER INSTITUTE</b>			
RILKE, FRANCO.....	CLASSIFICATION OF NONHODGKIN'S LYMPHOMAS.....	1N01 CM67115-00	26,723
ORGANIZATION TOTAL	1 26,723		
<b>NATIONAL TUMOR INSTITUTE</b>			
VERONESI, UMBERTO.....	STUDY OF CANCER AND BRAIN TUMORS.....	3N01 CM33714-06	94,348
VERONESI, UMBERTO.....	COORDINATING CENTER FOR THE CLINICAL STUDY OF MELANOMA.....	2N01 CM43726-05	86,704
ORGANIZATION TOTAL	2 181,052		
<b>NAPLES</b>			
<b>UNIVERSITY OF NAPLES</b>			
GIORDANO, CARMELO.....	STUDY ON AMINO ACID AND UREMIA.....	3N01 AM90066-08	21,000
GIORDANO, CARMELO.....	STUDY ON OXYSTARCH AND UREMIA.....	3N01 AM90070-08	10,110
PUCA, GIOVANNI A.....	PURIFICATION OF ESTROGEN RECEPTOR IN TANGIBLE AMOUNTS.....	1N01 CB64074-00	70,000
ORGANIZATION TOTAL	3 101,110		
<b>PAVIA</b>			
<b>UNIVERSITY OF PAVIA</b>			
PAOLETTI, PIETRO.....	THERAPY OF PATIENTS WITH BRAIN TUMORS.....	1N01 CM67056-00	21,000
ORGANIZATION TOTAL	1 21,000		
<b>PERUGIA</b>			
<b>UNIVERSITY OF PERUGIA</b>			
BORMASSAR, ENZO.....	DRUG MODIFIED TUMOR ANTIGENS AS IMMUNOTHERAPY.....	1N01 CB64054-00	67,000
ORGANIZATION TOTAL	1 67,000		
<b>PISA</b>			
<b>UNIVERSITY OF PISA</b>			
BIANCHI, ROMANO.....	STUDY OF DIETARY TREATMENT OF CHRONIC UREMIA.....	3N01 AM80707-14	9,534
ORGANIZATION TOTAL	1 9,534		
STATE TOTAL	15 1,234,555		
<b>JAPAN</b>			
<b>NAGOYA</b>			
<b>AICHI CANCER CENTER</b>			
NISHIZUKA, Y.....	PERINATAL ALTERATIONS-INFLUENCE ON CARCINOGENESIS.....	2N01 CP55650-01	55,000
SEGI, MITSUO.....	SHIFTS IN CANCER RISKS FOR SPECIFIC SITES.....	2N01 CP23213-06	146,014
ORGANIZATION TOTAL	2 201,014		
<b>OSAKA</b>			
<b>OSAKA CITY UNIVERSITY</b>			
TOKUYAMA, TAKASHI.....	STUDY OF STRUCTURE OF ALKALOIDS.....	2N01 AM42203-02	6,000
ORGANIZATION TOTAL	1 6,000		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director		Purpose of contract	Contract No.	Dollars
<b>JAPAN—Continued</b>				
<b>TOKYO</b>				
<b>INSTITUTE OF MICROBIAL CHEMISTRY</b>				
UMEGAWA, HARNO.....	POTENTIAL ANTITUMOR AGENTS FROM MICROBIAL ORIGIN.....	5N01 CM57009-02	66,000	
ORGANIZATION TOTAL	1	66,000		
<b>JAPANESE FOUNDATION FOR CANCER RESEARCH</b>				
SAKURAI, YOSHIO.....	CANCER LIAISON OFFICE IN JAPAN.....	2N01 CM22054-06	47,308	
ORGANIZATION TOTAL	1	47,308		
STATE TOTAL	5	320,322		
<b>NETHERLANDS</b>				
<b>AMSTERDAM</b>				
<b>NETHERLANDS CANCER INSTITUTE</b>				
CLETON, FRANS J.....	FAMILY AND GENETIC STUDIES IN HUMAN BREAST CANCER.....	2N01 CB43940-03	20,700	
RUMKE, PHILIP.....	SPERM IMMUNOLOGY.....	5N01 HD52834-01	143,691	
ORGANIZATION TOTAL	2	164,391		
<b>LEIDEN</b>				
<b>STATE UNIVERSITY OF LEIDEN</b>				
VAN ROOD, J J.....	STUDY OF HISTOCOMPATIBILITY TECHNOLOGY.....	2N01 A42508-03	99,641	
ORGANIZATION TOTAL	1	99,641		
<b>RIJSWIJK</b>				
<b>NETHERLANDS CENTRAL ORGANIZATION TWO</b>				
BENTVELZEN, PETER A.....	STUDY OF RELEASE OF RNA TUMOR VIRUSES.....	2N01 CP43328-03	162,562	
BROCRSE, JOHANNES J.....	STUDY OF INTERACTION OF HORMONES.....	2N01 CP33330-01	259,567	
MARQUET, R L.....	IMMUNOGENICITY OF 'SPONTANEOUS' ANIMAL TUMORS.....	1N01 CB64038-00	42,000	
VAN PUTTEN, L M.....	COMBINATION OF RADIATION AND CHEMOTHERAPY.....	5N01 CM53763-01	67,111	
ORGANIZATION TOTAL	4	531,240		
STATE TOTAL	7	795,272		
<b>NORWAY</b>				
<b>OSLO</b>				
<b>NORWEGIAN PUBLIC HEALTH SERVICE</b>				
PEDERSEN, EINAR.....	STUDY OF SHIFTS IN CANCER RISKS.....	2N01 CP43247-03	105,345	
ORGANIZATION TOTAL	1	105,345		
<b>TRONDHEIM</b>				
<b>UNIVERSITY OF TRONDHEIM</b>				
EIK-NES, KRISTEN B.....	STUDY OF ANDROGENS IN MALE SEX ORGANS.....	2N01 HD42812-03	20,000	
ORGANIZATION TOTAL	1	20,000		

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>NORWAY—Continued</b>			
STATE TOTAL	2	125,345	
<b>PHILIPPINES</b>			
<b>MANILA</b>			
<b>INTERNATIONAL RICE RESEARCH INSTITUTE</b>			
JULIANO, BIENVENIDO O.....	FUNCTION OF ENTERIC NEURONS.....	2N01 AM70726-13	8,872
ORGANIZATION TOTAL	1	8,872	
STATE TOTAL	1	8,872	
<b>SPAIN</b>			
<b>MADRID</b>			
<b>MADRID UNIVERSITY</b>			
GOSALVEZ, MARIO.....	CHARACTERIZATION OF ANTITUMOR DRUGS.....	5N01 CM53792-01	61,778
ORGANIZATION TOTAL	1	61,778	
STATE TOTAL	1	61,778	
<b>SWEDEN</b>			
<b>GOTHENBURG</b>			
<b>GOTHENBURG UNIVERSITY</b>			
HYDEN, HOLGER N.....	COMPACT LOW-VOLUME SELF-REGENERATING ARTIFICIAL KIDNEY.....	1N01 AM62200-00	38,744
ORGANIZATION TOTAL	1	38,744	
<b>STOCKHOLM</b>			
<b>CAROLINE INSTITUTE</b>			
BERGSTROM, JONAS.....	STUDY OF UREMIC TOXICOLOGY.....	3N01 AM22215-06	80,150
BERGSTROM, SUNE.....	INTERNATIONAL DOCUMENTATION CENTER ON HUMAN REPRODUCTION.....	2N01 HD22736-04	14,499
CASPERSSON, TORBJORN.....	MARKERS APPLICABLE TO GYNECOLOGIC CYTOPATHOLOGY SPECIMEN.....	5N01 CB43945-02	41,000
KLEIN, EVA.....	HUMAN TUMOR ASSOCIATED ANTIGENS AND ANTIBODIES.....	2N01 CB43921-02	55,000
KLEIN, EVA.....	CELLS INVOLVED IN THE IMMUNE RESPONSE TO TUMORS.....	1N01 CB64023-00	39,500
KLEIN, GEORGE.....	ETIOLOGY OF SOME HUMAN CANCERS.....	2N01 CP33316-04	168,333
MUTT, VIKTOR.....	PREPARE AND DISTRIBUTE GASTROINTESTINAL HORMONES.....	3N01 AM52207-01	25,569
ORGANIZATION TOTAL	7	424,051	
<b>UNIVERSITY OF STOCKHOLM</b>			
ERNSTER, LARS.....	STUDY OF POLYCYCLIC HYDROCARBON METABOLISM.....	2N01 CP33363-04	183,547
ORGANIZATION TOTAL	1	183,547	
<b>UPPSALA</b>			
<b>UNIVERSITY OF UPPSALA</b>			
STENKVIST, BJORN.....	MORPHOLOGIC AND EPIDEMIOLOGIC ASPECTS OF BREAST CANCER.....	2N01 CB53968-01	119,900

**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>SWEDEN—Continued</b>			
WIGZELL, HANS.....	HUMAN PERIPHERAL BLOOD MONONUCLEAR CELL .....	2N01 CB43883-02	34,000
WIGZELL, HANS.....	CELLS INVOLVED IN THE IMMUNE RESPONSE TO TUMORS .....	1N01 CB64033-00	42,000
ORGANIZATION TOTAL	3 195,900		
STATE TOTAL	12 842,242		
<b>SWITZERLAND</b>			
<b>BERN</b>			
<b>UNIVERSITY OF BERN</b>			
TO BE APPOINTED .....	TRAVEL TO MEETING ON UROLITHIASIS—DAVOS, SWITZERLAND .....	1N01 AM62208-00	14,000
ORGANIZATION TOTAL	1 14,000		
<b>GENEVA</b>			
<b>INTERNATIONAL UNION AGAINST CANCER</b>			
DELAFFRESNAYE, J F.....	ADVISORY SERVICES FOR NCI INTERNATIONAL PROGRAMS .....	3N01 C045414-04	257,588
DELAFFRESNAYE, J F.....	INTERNATIONAL SCIENTIST INFORMATION EXCHANGE PROGRAM .....	1N01 C065341-00	166,658
ORGANIZATION TOTAL	2 424,246		
<b>WORLD HEALTH ORGANIZATION</b>			
BARMES, DAVID E.....	ETIOLOGY OF DENTAL CARIES IN PAPUA, NEW GUINEA.....	3N01 DE22003-09	32,500
BOGEL, W KONRAD.....	INTERNATIONAL MEETING ON TRANSFER OF RESEARCH MATERIALS .....	1N01 RS62152-00	15,000
KUPKA, KAREL.....	INTERNATIONAL CLASSIFICATION OF DISEASES—ONCOLOGY .....	5N01 C055218-01	38,364
KUPKA, KAREL.....	PREPARATION OF AN INTERNATIONAL NOMENCLATURE OF DISEASES.....	1N01 RG62129-00	60,000
ORGANIZATION TOTAL	4 145,864		
STATE TOTAL	7 584,110		
<b>UGANDA</b>			
<b>KAMPALA</b>			
<b>MAKERERE UNIVERSITY</b>			
KYOLWAZI, SEBASTIAN.....	SUPPORT FOR CANCER TREATMENT CENTER .....	2N01 CM71343-14	125,000
ORGANIZATION TOTAL	1 125,000		
STATE TOTAL	1 125,000		
<b>UNITED KINGDOM</b>			
<b>BECKENHAM</b>			
<b>WELLCOME RESEARCH LABORATORIES</b>			
EDWARDS, D C.....	SELECTIVE STIM. OR SUPPRESS. OF IMMUNOLOGIC RESPONSES .....	2N01 CB43929-02	16,590
ORGANIZATION TOTAL	1 16,590		



**Table 2.—NIH Research and Development Contracts, by Area, Organization, and Project Director, Fiscal Year 1976 and Transition Quarter—Continued**

Project director	Purpose of contract	Contract No.	Dollars
<b>UNITED KINGDOM—Continued</b>			
<b>BELFAST</b>			
<b>QUEEN'S UNIVERSITY OF BELFAST</b>			
BOYD, DEREK R.....	SYNTHESIS OF OPTICALLY ACTIVE BP 7,8-DIHYDRODIOL.....	1N01 AM62209-00	7,500
ORGANIZATION TOTAL	1 7,500		
<b>LEEDS</b>			
<b>UNIVERSITY OF LEEDS</b>			
COOPER, EDWARD H.....	TRIALS IN GASTROINTESTINAL CANCER.....	3N01 CM43727-04	37,350
ORGANIZATION TOTAL	1 37,350		
<b>LONDON</b>			
<b>BROMPTON HOSPITAL</b>			
TURNER-WARWICK, MARGARET.....	HISTOCOMPATIBILITY IN HYPERSENSITIVITY LUNG DISEASES.....	1N01 HR62935-00	32,126
ORGANIZATION TOTAL	1 32,126		
<b>MEDICAL RESEARCH COUNCIL</b>			
KLYNE, WILLIAM.....	PROVIDE RESEARCH RESOURCES.....	2N01 AM50032-14	26,206
ORGANIZATION TOTAL	1 26,206		
<b>UNIVERSITY OF LONDON</b>			
BROOKES, PETER.....	STUDY OF NATURE OF THE POLYCYCLIC HYDROCARBON.....	2N01 CP33367-01	111,000
DAVIES, ANTHONY J.....	DEVELOPMENT OF SYSTEM FOR COLLECTING ANTICANCER AGENTS.....	2N01 CM43736-04	81,992
LAMERTON, LEONARD F.....	STUDY OF CHEMOTHERAPEUTIC RESPONSE OF TUMORS.....	2N01 CM23717-04	27,800
ORGANIZATION TOTAL	3 220,792		
<b>NEWCASTLE-UPON-TYNE</b>			
<b>UNIVERSITY OF NEWCASTLE UPON TYNE</b>			
ROBERTS, DEREK F.....	MULTIPLE SCLEROSIS IN THE ORKNEY AND SHETLAND ISLANDS.....	1N01 NS62337-00	39,179
ORGANIZATION TOTAL	1 39,179		
<b>NOTTINGHAM</b>			
<b>UNIVERSITY OF NOTTINGHAM</b>			
BALDWIN, ROBERT W.....	IMMUNOTHERAPY OF C3H MURINE MAMMARY CARCINOMA.....	1N01 CB64042-00	100,650
EMBLETON, MICHAEL J.....	IMMUNOGENICITY OF SPONTANEOUS ANIMAL TUMORS.....	1N01 CB64009-00	60,000
ORGANIZATION TOTAL	2 160,650		
<b>OXFORD</b>			
<b>UNIVERSITY OF OXFORD</b>			
BALDWIN, JOHN.....	DETERMINATION OF DISEASE LINKAGE.....	2N01 CP23215-05	22,254
JOHNSON, PAUL.....	STUDY OF SUDDEN INFANT DEATH SYNDROME.....	5N01 HD32772-05	120,225
ORGANIZATION TOTAL	2 142,479		
STATE TOTAL	13 682,872		

## APPENDIX

### Notes on Selected Organizations

Organizations appearing in more than one geographical location or requiring a clarifying comment are listed below in alphabetic sequence. Comments on certain foundations or on organizations whose names have changed since last year appear after the name of the organization.

#### United States

Affiliated Hospitals Center--Boston (2 units), Mass.  
American Institutes for Research--Palo Alto, Calif.; Washington, D.C.  
Arizona State Department of Health Services (formerly shown as Arizona State Department of Health)--Phoenix, Ariz.  
Battelle Memorial Institute--Columbus, Ohio; Richland, Seattle, Wash.  
Becton, Dickinson and Company--Towson, Md.; Research Triangle Park, N.C.  
Booz, Allen and Hamilton--Washington, D.C.; Philadelphia, Pa.  
Boston Health and Hospitals Department (may include awards to Mallory Institute of Pathology Foundation)--Boston (2 units), Mass.  
California State Health and Welfare Agency--Berkeley, Sacramento, Calif.  
College of Medicine and Dentistry of New Jersey--Newark, Piscataway, N.J.  
Cornell University--Ithaca, New York, N.Y.  
E G & G, Inc.--Rockville, Md.; Bedford, Worcester, Mass.  
EIC Corporation (formerly shown as Environmental Impact Center in Cambridge, Mass.)--Newton, Mass.  
Exxon Corporation (formerly shown as Exxon Corporation--Esso Research and Engineering Company)--Linden, N.J.  
Florida Department of Health and Rehabilitative Services--Jacksonville, Miami, Fla.  
Flow Laboratories--Rockville (2 units), Md.  
G. D. Searle & Company (formerly shown in Emeryville, Calif.)--Haywood, Calif.  
Gould, Inc. (formerly shown as Satham Instruments)--Oxnard, Calif.  
Gulf South Research Institute--Baton Rouge, New Iberia, New Orleans, La.  
Harvard University--Boston, Cambridge, Mass.  
Hazelton Laboratories Corporation (formerly shown as Environmental Sciences Corporation--Hazelton Laboratories)--Vienna, Va.  
Indiana State Department of Mental Health (may include awards to the Association for Advancement of Mental Health Research and Education Inc.)--New Castle, Ind.  
Indiana University System--Bloomington, Indianapolis, Ind.  
Informatics, Inc.--Cheverly, Rockville, Md.

Kaiser Foundation Hospitals--Oakland, San Francisco, Calif.  
 Kentucky Department for Human Resources (may include awards to  
 Kentucky Mental Health Foundation, Inc.)--Frankfort, Ky.  
 Koch Industries (formerly shown as Abcor, Inc. in Cambridge, Mass.)--  
 Wilmington, Mass.  
 Los Angeles County Health Services Department--Los Angeles, Torrance,  
 Calif.  
 Louisiana Health and Human Resources Administration (formerly shown as  
 Louisiana Health and Social and Rehabilitative Services Administra-  
 tion)--New Orleans, La.  
 Midwest Research Institute--Minneapolis, Minn.; Kansas City, Mo.  
 Mitre Corporation--Bedford, Mass.; McLean, Va.  
 New York Medical College--New York, Valhalla, N.Y.  
 New York State Department of Health (may include awards to Health  
 Research, Inc.)--Albany, Buffalo, N.Y.  
 Northwestern University--Chicago, Evanston, Ill.  
 Oregon State Higher Education System--Corvallis, Portland, Oreg.  
 Pennsylvania State University--Hershey, University Park, Pa.  
 Revlon, Inc. (formerly shown as Meloy Laboratories)--Springfield, Va.  
 Sidney Farber Cancer Institute (formerly shown as Sidney Farber Cancer  
 Center)--Boston, Mass.  
 Sigma Data Computing Corporation (formerly shown in Bethesda, Md.)--  
 Rockville, Md.  
 State University of New York--Albany, Buffalo, New York, Stony Brook,  
 Syracuse, N.Y.  
 State University System of Florida--Gainesville, Tallahassee, Fla.  
 Texas Department of Health Resources (formerly shown as Texas State  
 Department of Health)--Austin, Tyler, Tex.  
 Tulane University--Covington, New Orleans, La.  
 U.S. Small Business Administration--Washington (2 units), D.C.;  
 Bala-Cynwyd, Pa.  
 U.S. Smithsonian Institution--Washington (2 units), D.C.  
 University of California System--Berkeley, Davis, Irvine, La Jolla,  
 Los Angeles, San Francisco, Calif. The unit in La Jolla may include  
 awards to Friends of Psychiatric Research of San Diego.  
 University of Colorado at Boulder--Boulder, Denver, Colo.  
 University of Connecticut--Farmington, Storrs, Conn.  
 University of Illinois System--Chicago, Urbana, Ill.  
 University of Kansas--Kansas City, Lawrence, Kans.  
 University of Maryland System--Baltimore, College Park, Md.  
 University of Minnesota--Austin, Duluth, Minneapolis, Minn.  
 University of Nebraska System--Lincoln, Omaha, Nebr.  
 University of Oklahoma--Norman, Oklahoma City, Okla.  
 University of Texas System--Austin, Dallas, Galveston, Houston  
 (2 units), San Antonio, Tex.  
 University System of Georgia--Athens, Atlanta, Augusta, Ga.  
 Warner-Lambert Company (formerly shown as Parke, Davis and Company)--  
 Detroit, Mich.  
 Whittaker Corporation--Bethesda, Md.; Waltham, Mass. The unit in  
 Bethesda, Md. was formerly shown as Microbiological Associates.

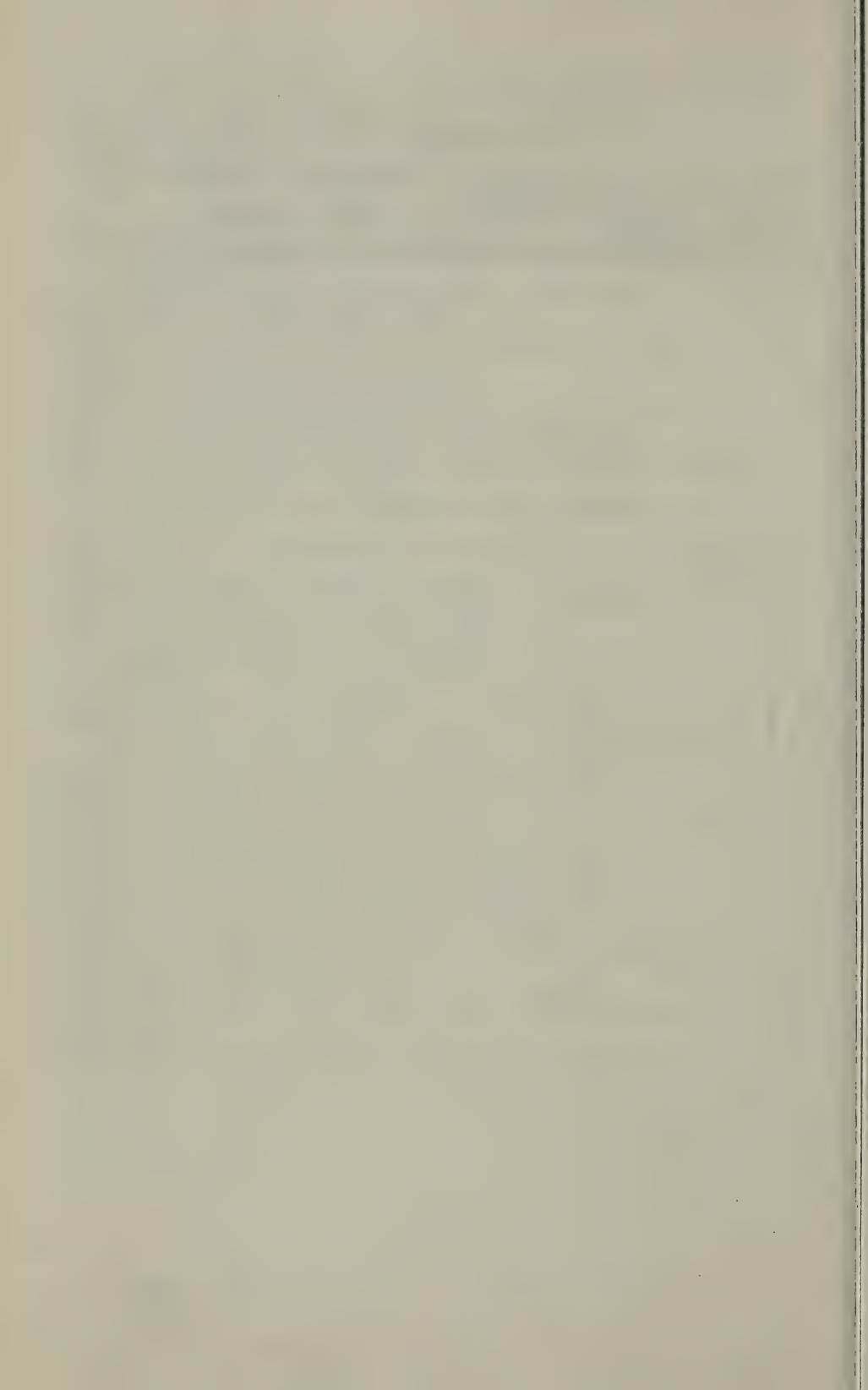
### Other Countries

International Rice Research Institute (formerly shown in Los Banos,  
Philippines)--Manila, Philippines

University of Melbourne (formerly shown in Melbourne, Australia)--  
Parkville, Australia

World Health Organization--Lyon, France; Geneva, Switzerland









**DHEW Publication No. (NIH) 77-1044**

# NATIONAL INSTITUTES OF HEALTH

Grants  
for  
Training  
Construction  
Medical Libraries

Fiscal Year 1976 and  
Transition Quarter Funds



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service      National Institutes of Health



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# NATIONAL INSTITUTES OF HEALTH

## Grants for Training Construction Medical Libraries

Fiscal Year 1976 and  
Transition Quarter Funds

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service                      National Institutes of Health

DHEW Publication No. (NIH) 77-1043

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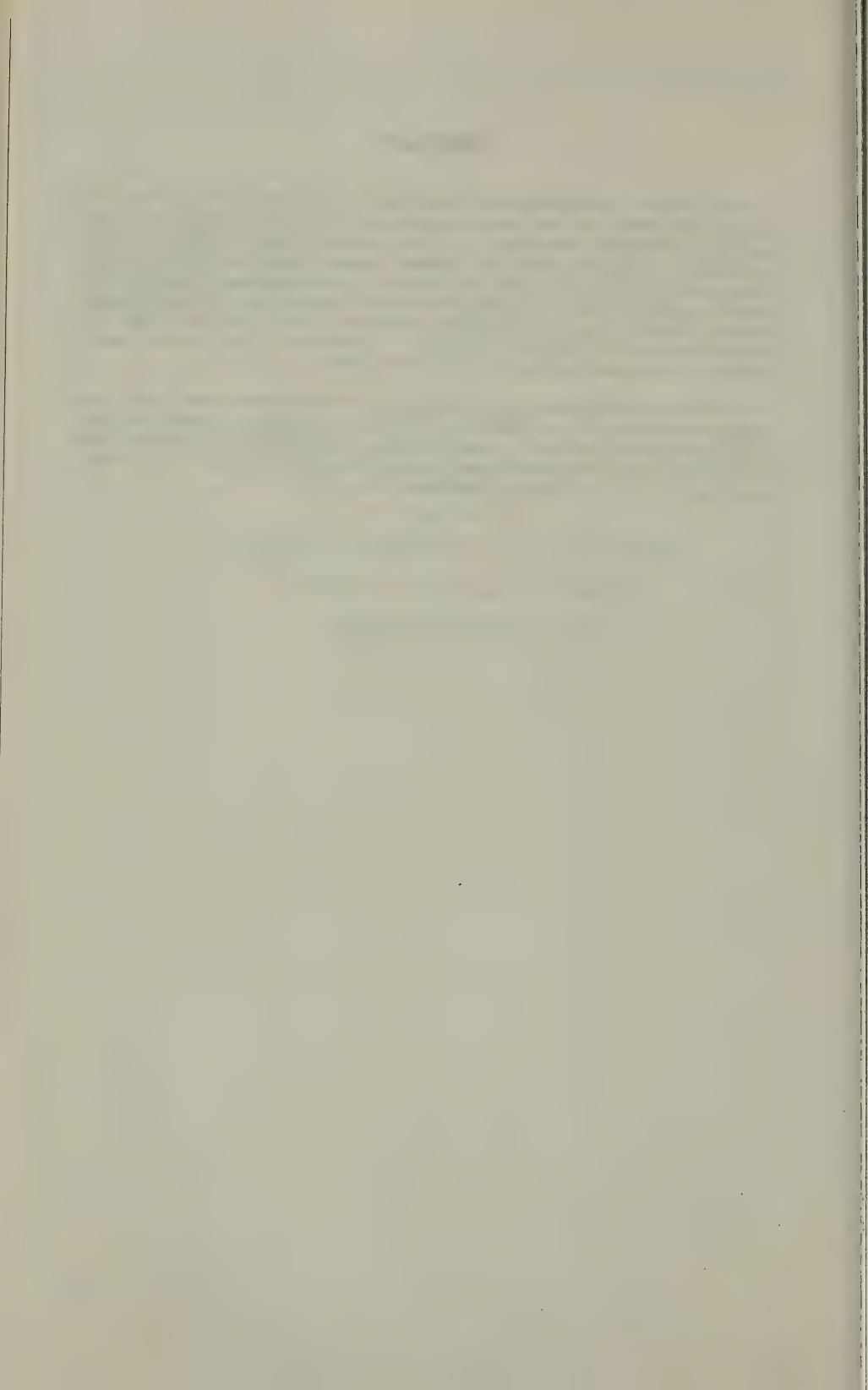
Prepared by  
NATIONAL INSTITUTES OF HEALTH  
DIVISION OF RESEARCH GRANTS  
Statistics and Analysis Branch

## **PREFACE**

The mission of the National Institutes of Health is to protect and improve the health of the American people. To achieve this goal, NIH conducts biomedical research in its own laboratories; provides grants to nonprofit organizations and academic institutions for research; provides grants for the training of research investigators; supports biomedical communications through programs and activities of the National Library of Medicine; and provides grants for facilities and other resources required for cancer research. In addition, the contract mechanism is used under appropriate circumstances.

Listings of NIH grants and research and development contracts are prepared annually by the Division of Research Grants. This book presents awards for training, construction, and medical libraries made from fiscal year 1976 funds and from funds available for the transition quarter, July 1 through September 30, 1976.





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## INTRODUCTION

### *Coverage*

This volume presents the fellowships, training grants, cancer research facilities construction, and medical library grants awarded by the National Institutes of Health. Awards for training and construction made by other constituent agencies of the Public Health Service are not included in this volume.

The awards shown in this volume are those made from fiscal year 1976 funds and from funds made available for the transition quarter, July 1 through September 30, 1976. The inclusion of the three additional months was necessitated for compliance with the Congressional Budget and Impoundment Control Act of 1974, P.L. 93-344, which changed the beginning of the fiscal year from July 1 to October 1.

### *Appendix*

Organizations appearing in more than one geographical location, or requiring a clarifying comment, are listed in the Appendix in alphabetic sequence.





## TECHNICAL NOTE

### *Organization Identification*

In this presentation of grants made from fiscal year 1976 funds, emphasis is placed on listing the organizations in the city and State of the unit in which professional responsibility of the fellow, program director, or responsible official lies. Study of the structure of grantee organizations in the United States (primarily universities and colleges, and State Departments of Mental Health or their equivalents) has led to the following qualifications in the listing of their names:

1. Within a given city, if an institution of higher education is comprised of two or more campuses reporting directly to the central administration, each campus is listed separately.
2. In the listing of governmental organizations, Federal as well as non-Federal, the name of the parent department precedes that of the individual component, and the organization is listed as many times within a given city as there are components of the organization receiving grants.
3. If a foundation has been established for the purpose of receiving and administering funds for grants, the name and location of the organization having professional responsibility for the grant are shown rather than the name and location of the foundation. The name of the foundation is indicated in the Appendix if it differs materially from the name of the organization.
4. If an association receiving a grant has a fixed national headquarters, the grants are listed at the headquarters location. If however, the association does not have a fixed headquarters, the grants are listed in the city shown for this organization in the Encyclopedia of Associations.

These qualifications do not apply to foreign institutions or to some domestic organizations, because a systematic study of their organizational structure has not been made. Organizations which require a clarifying comment or which appear in more than one geographical location are listed alphabetically in the Appendix.

### *Supplemental Awards*

In this publication, supplemental awards are combined with the parent grant, or with other supplements, when both awards are made from the same fiscal year funds. Supplemental grants awarded in fiscal year 1976 to parent grants awarded in a previous fiscal year are shown separately; if two or more such supplements were made during fiscal year 1976, these supplements are combined.

# REPORT

ON THE

PROGRESS OF THE WORK DURING THE YEAR 1887

AND THE RESULTS OF THE RESEARCHES

CONDUCTED BY THE

COMMISSIONERS OF THE

LAND OFFICE

IN THE

REPLY TO THE

## ABBREVIATIONS

The NIH component supporting a grant is indicated by the code letters in the left-hand column. These code letters form part of the identification of the grant number.

<i>Code for supporting component</i>		<i>Abbreviation of supporting component</i>
	Institutes and Research Divisions.....	IRD
AG	National Institute on Aging.....	NIA
AI	National Institute of Allergy and Infectious Diseases.....	NIAID
AM	National Institute of Arthritis, Metabolism, and Digestive Diseases.....	NIAMDD
CA	National Cancer Institute.....	NCI
DE	National Institute of Dental Research.....	NIDR
ES	National Institute of Environmental Health Sciences.....	NIEHS
EY	National Eye Institute.....	NEI
GM	National Institute of General Medical Sciences.....	NIGMS
HD	National Institute of Child Health and Human Development.....	NICHD
HL	National Heart, Lung, and Blood Institute.....	NHLBI
NS	National Institute of Neurological and Communicative Disorders and Stroke.....	NINCDS
RR	Division of Research Resources.....	DRR
TW	Fogarty International Center.....	FIC
LM	National Library of Medicine.....	NLM



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TABLE 1-A.--SUMMARY OF NIH TRAINING, CONSTRUCTION, AND MEDICAL LIBRARY GRANTS, BY SUPPORTING COMPONENT, FISCAL YEAR 1976, AND TRANSITION QUARTER

Supporting Component	Total Training Dollars	Training				Fellowships and Nat'l. Research Service Awards*		Construction Grants		Medical Library Grants	
		Research Training Grants		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
		No.	Dollars								
Total National Institutes of Health.....	136,097,233	1,471	104,567,275	2,245	31,529,958	18	23,500,000	42	714,988		
Institutes and Research Divisions.....	134,708,261	1,458	103,178,303	2,245	31,529,958	18	23,500,000				
Division of Research Resources.....	421,000	6	323,594	6	97,406						
Fogarty International Center.....	2,470,295	--	--	188	2,470,295						
National Cancer Institute.....	21,352,780	142	15,902,238	373	5,450,542	18	23,500,000				
National Eye Institute.....	4,817,378	60	3,485,476	98	1,331,902						
National Heart, Lung, and Blood Institute.....	21,100,609	199	17,240,740	250	3,859,869						
National Institute of Allergy and Infectious Diseases.....	8,595,117	90	5,230,068	216	3,365,049						
National Institute of Arthritis, Metabolism, and Digestive Diseases.....	5,191,674	118	2,731,316	225	2,460,358						
National Institute of Child Health and Human Development.....	10,139,626	92	7,504,523	174	2,635,103						
National Institute of Dental Research.....	5,671,801	70	4,701,700	68	970,101						
National Institute of Environmental Health Sciences.....	1,947,760	17	1,550,911	25	396,849						
National Institute of General Medical Sciences.....	41,954,297	579	38,304,763	279	3,649,534						
National Institute of Neurological and Communicative Disorders and Stroke.....	9,192,578	71	4,763,185	313	4,429,393						
National Institute on Aging.....	1,853,346	14	1,439,789	30	413,557						
National Library of Medicine.....	1,388,972	13	1,388,972	--	--						
										42	714,988

\*Supplemental and supply allowances for an award made in a previous year are not included in the count, although dollars are included. Thus, an organization receiving only a supply allowance will have an entry under dollars but no entry under number.

NOTE: For information as to how this table is structured, see Technical Note, p. ix. Also, for comments on organizations, see Appendix.

TABLE 1-B—SUMMARY OF NIH TRAINING, CONSTRUCTION, AND MEDICAL LIBRARY GRANTS, BY SUPPORTING COMPONENT, FISCAL YEAR 1976

Supporting Component	Total Training Dollars	Research Training Grants		Fellowships and Nat'l. Research Service Awards*		Construction Grants		Medical Library Grants	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
Total National Institutes of Health.....	123,091,613	1,350	99,870,831	1,652	23,220,782	14	20,000,000	37	688,326
Institutes and Research Divisions.....	122,035,546	1,339	98,814,764	1,652	23,220,782	14	20,000,000		
Division of Research Resources.....	334,000	5	277,294	3	56,706	--	--	--	--
Fogarty International Center.....	2,066,687	--	--	157	2,066,687	--	--	--	--
National Cancer Institute.....	18,162,231	133	14,948,957	193	3,213,274	--	--	--	--
National Eye Institute.....	4,622,734	59	3,454,587	85	1,168,147	14	20,000,000	--	--
National Heart, Lung, and Blood Institute.....	20,414,238	198	17,157,315	235	3,256,923	--	--	--	--
National Institute of Allergy and Infectious Diseases.....	7,808,703	90	5,230,068	185	2,578,635	--	--	--	--
National Institute of Arthritis, Metabolism, and Digestive Diseases.....	2,011,850	22	860,625	87	1,151,225	--	--	--	--
National Institute of Child Health and Human Development.....	9,508,160	88	7,014,968	162	2,493,192	--	--	--	--
National Institute of Dental Research.....	5,064,460	63	4,251,288	59	813,172	--	--	--	--
National Institute of Environmental Health Sciences.....	1,744,560	17	1,460,811	18	283,749	--	--	--	--
National Institute of General Medical Sciences.....	40,846,074	579	38,304,763	207	2,541,311	--	--	--	--
National Institute of Neurological and Communicative Disorders and Stroke.....	7,701,810	71	4,414,299	239	3,287,511	--	--	--	--
National Institute on Aging.....	1,750,039	14	1,439,789	22	310,250	--	--	--	--
National Library of Medicine.....	1,056,067	11	1,056,067	--	--	--	--	37	688,326

\*Supplemental and supply allowances for an award made in a previous year are not included in the count, although dollars are included. Thus, an organization receiving only a supply allowance will have an entry under dollars but no entry under number.

NOTE: For information as to how this table is structured, see Technical Note, p. ix. Also, for comments on organizations, see Appendix.

**Table 2.—Starts on next page.**



**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>GRAND TOTAL</b> .....	2,245	31,529,958	2	13,100	20	259,566	30	348,648	6	64,029	188	2,470,295	1,999	28,374,320
<b>UNITED STATES*</b> .....	2,171	30,481,503	2	13,100	19	247,116	30	348,028	6	64,029	187	2,463,480	1,927	27,345,150
<b>OTHER COUNTRIES</b> .....	74	1,048,455			1	12,450		620			1	6,815	72	1,029,170
<b>ALABAMA</b>														
<b>BIRMINGHAM</b>														
UNIVERSITY OF ALABAMA IN BIRMINGHAM.....	12	188,100							1	11,500			11	176,600
<b>MOBILE</b>														
UNIVERSITY OF SOUTH ALABAMA.....		3,000												3,000
<b>UNIVERSITY</b>														
UNIVERSITY OF ALABAMA.....		3,000												3,000
<b>STATE TOTAL</b> .....	12	194,100							1	11,500			11	182,600
<b>ARIZONA</b>														
<b>PHOENIX</b>														
ST. JOSEPH'S HOSPITAL AND MEDICAL CENTER.....	1	19,200											1	19,200
<b>TUCSON</b>														
UNIVERSITY OF ARIZONA.....	12	169,705									1	11,405	11	158,300
<b>STATE TOTAL</b> .....	13	188,905										11,405	12	177,500

## ARKANSAS

### LITTLE ROCK

UNIVERSITY OF ARKANSAS MEDICAL SCIENCES CAMPUS.....

STATE TOTAL.....

## CALIFORNIA

### BERKELEY

CALIFORNIA STATE HEALTH AND WELFARE AGENCY-DEPARTMENT OF HEALTH  
UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT  
BERKELEY.....

### DAVIS

UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT DAVIS.....

### DUARTE

CITY OF HOPE MEDICAL CENTER.....

### IRVINE

UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT IRVINE .....

### LA JOLLA

SALK INSTITUTE FOR BIOLOGICAL STUDIES.....  
SCRIPPS CLINIC AND RESEARCH FOUNDATION.....  
UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT SAN  
DIEGO.....

### LOMA LINDA

LOMA LINDA UNIVERSITY.....

\*Includes Puerto Rico.  
NOTE 1.—Supplemental and supply allowances for an award made in a previous year are not included in the count, although the dollars are included. Thus, an organization receiving only a supply allowance will have an entry under dollars but no entry under number.  
NOTE 2.—For information as to how this table is structured, see Technical Note, p. ix. Also, for comments on organizations, see Appendix.

**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>CALIFORNIA—CON.</b>														
<b>LOS ANGELES</b>														
ESTELLE DOHEW EYE FOUNDATION	1	13,000											1	13,000
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES	53	744,071											47	673,367
UNIVERSITY OF SOUTHERN CALIFORNIA	11	158,417					2	18,867			4	51,837	9	130,200
VETERANS ADMINISTRATION WADSWORTH HOSPITAL CENTER		100						284			2	27,933		
												100		
<b>OAKLAND</b>														
CHILDREN'S HOSPITAL MEDICAL CENTER OF NORTHERN CALIFORNIA	2	24,519											2	24,519
<b>PASADENA</b>														
CALIFORNIA INSTITUTE OF TECHNOLOGY	29	376,371			2	25,000							27	351,371
<b>RIVERSIDE</b>														
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT RIVERSIDE	2	18,400											2	18,400
<b>SAN FRANCISCO</b>														
CHILDREN'S HOSPITAL OF SAN FRANCISCO	1	14,500											1	14,500
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO	69	973,723			1	20,100	4	42,467			7	80,971	57	830,185
UNIVERSITY OF THE PACIFIC	2	30,200											2	30,200
<b>SAN JOSE</b>														
SANTA CLARA VALLEY MEDICAL CENTER	1	10,100									1	7,100		3,000

**SANTA BARBARA**UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT SANTA  
BARBARA.....

2

28,300

2

28,300

**SANTA CRUZ**UNIVERSITY OF CALIFORNIA SYSTEM-UNIVERSITY OF CALIFORNIA AT SANTA  
CRUZ.....

4

67,200

4

67,200

**SEPULVEDA**

VETERANS ADMINISTRATION HOSPITAL.....

525

525

**STANFORD**

STANFORD UNIVERSITY.....

69

969,743

1

14,200

1

11,450

7

88,974

60

855,119

**TORRANCE**LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT-LOS ANGELES  
COUNTY HARBOR GENERAL HOSPITAL.....

10

163,144

5

74,867

8

87,668

34

428,645

371

5,336,610

STATE TOTAL.....

418

5,927,790

5,336,610

**COLORADO****BOULDER**

UNIVERSITY OF COLORADO.....

12

188,900

1

11,400

11

177,500

**DENVER**

NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER.....

6

88,600

1

14,700

4

61,723

5

73,900

UNIVERSITY OF COLORADO MEDICAL CENTER.....

19

292,773

1

1,000

15

230,050

UNIVERSITY OF DENVER.....

2

26,800

2

2

26,800

VETERANS ADMINISTRATION HOSPITAL.....

1

13,800

1

1

13,800

**FORT COLLINS**

COLORADO STATE UNIVERSITY.....

9

131,000

2

27,100

2,000

9

129,000

STATE TOTAL.....

49

741,873

2,000

61,723

43

651,050



**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>CONNECTICUT</b>														
<b>FARMINGTON</b>														
UNIVERSITY OF CONNECTICUT HEALTH CENTER.....	9	132,000									1	6,800	8	125,200
<b>MIDDLETOWN</b>														
WESLEYAN UNIVERSITY.....	1	13,000											1	13,000
<b>NEW HAVEN</b>														
HASKINS LABORATORIES.....	2	25,200											2	25,200
JOHN B. PIERCE FOUNDATION OF CONNECTICUT.....	1	14,500											1	14,500
YALE UNIVERSITY.....	63	863,045									6	71,374	57	791,671
<b>STORRS</b>														
UNIVERSITY OF CONNECTICUT.....	5	71,500											5	71,500
STATE TOTAL.....	81	1,119,245									7	78,174	74	1,041,071
<b>DIST OF COL</b>														
<b>WASHINGTON</b>														
AMERICAN NATIONAL RED CROSS.....		3,000												3,000
CHILDREN'S HOSPITAL NATIONAL MEDICAL CENTER.....	1	14,000					1	14,000						
GEORGE WASHINGTON UNIVERSITY.....	6	81,122											6	81,122
GEORGETOWN UNIVERSITY.....	2	27,900											2	27,900
STATE TOTAL.....	9	126,022					1	14,000					8	112,022

## FLORIDA

### GAINESVILLE

STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA.....

14

190,854

1

5,385

11,936

12

173,533

### MIAMI

PAPANICOLAOU CANCER RESEARCH INSTITUTE.....

1

15,600

1

12,600

1

1

15,600  
124,400

### TALLAHASSEE

STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY.....

3

37,515

1

5,385

24,601

3

37,450

STATE TOTAL.....

27

380,969

2

24,601

24

350,983

## GEORGIA

### ATHENS

UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA.....

7

110,500

1

14,200

6

96,300

### ATLANTA

ATLANTA UNIVERSITY.....

3

35,302

2

19,502

1

15,800

EMORY UNIVERSITY.....

9

123,561

1

8,450

78

115,033

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE—CENTER FOR  
DISEASE CONTROL.....

1

11,325

1

11,325

1

.....

### AUGUSTA

UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA.....

2

22,000

1

2,800

1

19,200

STATE TOTAL.....

22

302,688

1

22,302

16

246,333

## HAWAII

### HONOLULU

UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA.....

3

35,936

.....

.....

3

35,936

STATE TOTAL.....

3

35,936

.....

.....

3

35,936

**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>ILLINOIS</b>														
<b>CARBONDALE</b>														
SOUTHERN ILLINOIS UNIVERSITY	2	31,000											2	31,000
<b>CHICAGO</b>														
ILLINOIS INSTITUTE OF TECHNOLOGY	1	15,600											1	15,600
MICHAEL REESE HOSPITAL AND MEDICAL CENTER		3,000												3,000
NORTHWESTERN UNIVERSITY	9	116,251					1	11,400			2	23,618	6	81,233
RUSH-PRESBYTERIAN ST. LUKE'S MEDICAL CENTER	1	16,000											1	16,000
RUSH-PRESBYTERIAN ST. LUKE'S MEDICAL CENTER-RUSH UNIVERSITY	2	30,800											2	30,800
UNIVERSITY OF CHICAGO	31	401,466			1	2,800					7	75,516	23	323,150
UNIVERSITY OF ILLINOIS SYSTEM-UNIVERSITY OF ILLINOIS AT CHICAGO														
CIRCLE	1	10,000											1	10,000
UNIVERSITY OF ILLINOIS SYSTEM-UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER	4	67,900											4	67,900
<b>EVANSTON</b>														
NORTHWESTERN UNIVERSITY	8	117,984											8	117,984
<b>HINES</b>														
VETERANS ADMINISTRATION HOSPITAL	1	16,200											1	16,200
<b>URBANA</b>														
UNIVERSITY OF ILLINOIS SYSTEM-UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	11	151,883				3,000					1	12,483	10	136,400
STATE TOTAL	71	978,084			1	5,800	1	11,400			10	111,617	59	849,267

## INDIANA

### BLOOMINGTON

INDIANA UNIVERSITY SYSTEM-INDIANA UNIVERSITY AT BLOOMINGTON.....

### INDIANAPOLIS

INDIANA UNIVERSITY SYSTEM-INDIANA UNIVERSITY AT INDIANAPOLIS.....

### NOTRE DAME

UNIVERSITY OF NOTRE DAME.....

### WEST LAFAYETTE

PURDUE UNIVERSITY.....

STATE TOTAL.....

## IOWA

### IOWA CITY

UNIVERSITY OF IOWA.....

STATE TOTAL.....

## KANSAS

### KANSAS CITY

UNIVERSITY OF KANSAS.....

### LAWRENCE

UNIVERSITY OF KANSAS.....

STATE TOTAL.....

90,400

51,800

55,600

93,622

291,422

145,900

145,900

37,000

30,000

67,000



**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>KENTUCKY</b>														
<b>LEXINGTON</b>														
UNIVERSITY OF KENTUCKY	2	27,200											2	27,200
<b>LOUISVILLE</b>														
UNIVERSITY OF LOUISVILLE	2	26,800											2	26,800
STATE TOTAL	4	54,000											4	54,000
<b>LOUISIANA</b>														
<b>BATON ROUGE</b>														
LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY AT BATON ROUGE		3,000												3,000
<b>NEW ORLEANS</b>														
LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS	8	106,387				1,000				3,854		100	8	3,000
TULANE UNIVERSITY														101,433
STATE TOTAL	8	112,387				1,000				3,854		100	8	107,433
<b>MAINE</b>														
<b>BAR HARBOR</b>														
JACKSON LABORATORY	1	12,151									1	9,151		3,000

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**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>MARYLAND—Con.</b>														
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE—ALCOHOL, DRUG ABUSE, AND MENTAL HLTH ADMIN.	4	47,817									2	25,744	2	22,073
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE—FOOD AND DRUG ADMINISTRATION	1	11,768											1	11,768
STATE TOTAL	182	2,359,275			3	33,025	4	44,800		4,007	35	479,776	140	1,797,667
<b>MASSACHUSETTS</b>														
<b>AMHERST</b>														
UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS AT AMHERST	3	44,100											3	44,100
<b>BOSTON</b>														
AFFILIATED HOSPITALS CENTER—PETER BENT BRIGHAM HOSPITAL	13	203,650											12	192,700
AFFILIATED HOSPITALS CENTER—ROBERT BRECK BRIGHAM HOSPITAL	3	57,922									1	10,950	2	41,000
BETH ISRAEL HOSPITAL	2	34,800									1	16,322	2	34,800
BOSTON BIOMEDICAL RESEARCH INSTITUTE	3	37,600											3	37,600
BOSTON HEALTH AND HOSPITALS DEPARTMENT		4,500												4,500
BOSTON HEALTH AND HOSPITALS DEPARTMENT—BOSTON CITY HOSPITAL	11	13,800											1	13,800
BOSTON UNIVERSITY	11	147,080									1	9,230	10	137,850
CENTER FOR BLOOD RESEARCH	1	16,200											1	16,200
CHILDREN'S HOSPITAL MEDICAL CENTER	8	126,800											8	126,800
EYE RESEARCH INSTITUTE OF RETINA FOUNDATION	2	35,400											2	35,400
FORSYTH DENTAL CENTER	2	27,900											2	27,900
HARVARD UNIVERSITY	96	1,357,755											84	1,180,029
JOSLIN DIABETES FOUNDATION	2	22,350					2	38,250			10	128,309	2	22,350
MASSACHUSETTS EYE AND EAR INFIRMARY	1	16,600											1	16,600
MASSACHUSETTS GENERAL HOSPITAL	18	218,550											18	218,550
NEW ENGLAND MEDICAL CENTER HOSPITAL		3,000												3,000
SIDNEY FARBER CANCER INSTITUTE	5	69,200											5	69,200
TUFTS UNIVERSITY	6	95,660											5	84,300
TUFTS NEW ENGLAND MEDICAL CENTER		6,000									1	11,360	5	84,300

CAMBRIDGE													
HARVARD UNIVERSITY	46	553,479			1	1,434	1	15,000	2	23,271	42	513,774	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	48	659,195	1	6,700			1	17,050	4	47,134	42	588,311	
SHREWSBURY													
WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY	2	26,400									2	26,400	
STOW													
RED ACRE FARM	1	13,800									1	13,800	
WALTHAM													
BRANDEIS UNIVERSITY	15	185,634									15	185,634	
EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION	1	15,800									1	15,800	
WOODS HOLE													
MARINE BIOLOGICAL LABORATORY	1	14,500									1	14,500	
WORCESTER													
UNIVERSITY OF MASSACHUSETTS SYSTEM-UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	2	34,300									2	34,300	
STATE TOTAL	293	4,041,975	1	6,700	1	12,601	4	70,300	20	246,576	267	3,705,798	
MICHIGAN													
ANN ARBOR													
UNIVERSITY OF MICHIGAN	38	516,423			1	2,950			4,000	3	33,097	34	476,376
DETROIT													
WAYNE STATE UNIVERSITY	3	44,300								1	13,600	2	30,700
EAST LANSING													
MICHIGAN STATE UNIVERSITY	10	162,962						1,000		2	31,562	8	130,400
ROCHESTER													
OAKLAND UNIVERSITY	2	26,800										2	26,800
STATE TOTAL	53	750,485			1	3,950			4,000	6	78,259	46	664,276



**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total			Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.
<b>MINNESOTA</b>															
<b>AUSTIN</b>															
UNIVERSITY OF MINNESOTA	1	15,200												1	15,200
<b>MINNEAPOLIS</b>															
UNIVERSITY OF MINNESOTA	35	500,360				1,000						2	16,660	33	482,700
VETERANS ADMINISTRATION HOSPITAL		737													737
<b>ROCHESTER</b>															
MAYO FOUNDATION	9	132,560												7	114,267
MAYO FOUNDATION-MAYO MEDICAL SCHOOL	5	65,431										2	18,293	3	48,500
<b>SAINT PAUL</b>															
UNIVERSITY OF MINNESOTA	2	29,666												2	29,666
STATE TOTAL	52	743,954				1,000						6	51,884	46	691,070
<b>MISSISSIPPI</b>															
<b>JACKSON</b>															
UNIVERSITY OF MISSISSIPPI MEDICAL CENTER	1	13,400												1	13,400
<b>UNIVERSITY</b>															
UNIVERSITY OF MISSISSIPPI		2,000													
STATE TOTAL	1	15,400												1	13,400

**MISSOURI****COLUMBIA**

UNIVERSITY OF MISSOURI SYSTEM-UNIVERSITY OF MISSOURI AT COLUMBIA.....

**SAINT LOUIS**

ST. LOUIS UNIVERSITY.....

**UNIVERSITY CITY**

WASHINGTON UNIVERSITY.....

STATE TOTAL.....

102,200

4,600

97,600

65,214

21,114

1

3

44,100

362,344

15,094

1

23

347,250

529,158

36,208

2

33

488,950

**NEBRASKA****LINCOLN**

UNIVERSITY OF NEBRASKA SYSTEM-UNIVERSITY OF NEBRASKA AT LINCOLN.....

**OMAHA**UNIVERSITY OF NEBRASKA SYSTEM-UNIVERSITY OF NEBRASKA MEDICAL  
CENTER.....

STATE TOTAL.....

14,600

14,600

3,000

3,000

17,600

17,600

**NEW HAMPSHIRE****DURHAM**

UNIVERSITY OF NEW HAMPSHIRE SYSTEM-UNIVERSITY OF NEW HAMPSHIRE.....

**HANOVER**

DARTMOUTH COLLEGE.....

STATE TOTAL.....

26,400

26,400

45,530

130

3

3

45,400

71,930

130

5

5

71,800

**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>NEW JERSEY</b>														
<b>NEWARK</b>														
RUTGERS UNIVERSITY.....	2	30,900											2	30,900
<b>NEW BRUNSWICK</b>														
RUTGERS UNIVERSITY.....	2	28,572									1	15,572	1	13,000
<b>PISCATAWAY</b>														
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY-RUTGERS MEDICAL SCHOOL.....	1	10,000											1	10,000
<b>PRINCETON</b>														
PRINCETON UNIVERSITY.....	18	266,700											18	266,700
STATE TOTAL.....	23	336,172									1	15,572	22	370,600
<b>NEW MEXICO</b>														
<b>ALBUQUERQUE</b>														
UNIVERSITY OF NEW MEXICO.....	2	20,300											2	20,300
<b>UNIVERSITY PARK</b>														
NEW MEXICO STATE UNIVERSITY MAIN CAMPUS.....	1	16,400											1	16,400
STATE TOTAL.....	3	36,700											3	36,700

## ALBANY

19



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<b>NORTH CAROLINA</b>									
<b>CHAPEL HILL</b>									
UNIVERSITY OF NORTH CAROLINA SYSTEM-UNIVERSITY OF NORTH CAROLINA									
AT CHAPEL HILL	35	525,017				806		1	4,038
									21,065
									33
									499,107
<b>DURHAM</b>									
DUKE UNIVERSITY	37	523,548		1		12,200		2	29,723
									34
									479,625
<b>RALEIGH</b>									
UNIVERSITY OF NORTH CAROLINA SYSTEM-NORTH CAROLINA STATE									
UNIVERSITY AT RALEIGH		3,000							
									3,000
<b>RESEARCH TRIANGLE PARK</b>									
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE-NIEHS	2	26,823							
ENVIRONMENTAL HEALTH SCIENCES CENTER									2
									26,823
<b>WINSTON-SALEM</b>									
WAKE FOREST UNIVERSITY	1	11,609							
									1
									11,609
<b>STATE TOTAL</b>									
	75	1,089,997	1			13,006	1	6,038	50,789
									70
									1,020,164
<b>OHIO</b>									
<b>CINCINNATI</b>									
CHILDREN'S HOSPITAL MEDICAL CENTER	1	20,350							
UNIVERSITY OF CINCINNATI	8	112,648						1	17,181
									7
									20,350
									95,467
<b>CLEVELAND</b>									
CASE WESTERN RESERVE UNIVERSITY	8	86,890					700	2	17,073
CLEVELAND CLINIC HOSPITAL	1	15,240						1	15,240
									6
									69,117
<b>COLUMBUS</b>									
OHIO STATE UNIVERSITY	9	118,886							
									9
									118,886
<b>YELLOW SPRINGS</b>									
FELS RESEARCH INSTITUTE	1	11,200							
									1
									11,200
<b>STATE TOTAL</b>									
	28	365,214					700	4	49,494
									24
									315,020

**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>OKLAHOMA</b>														
<b>NORMAN</b>														
UNIVERSITY OF OKLAHOMA.....		3,000												3,000
<b>OKLAHOMA CITY</b>														
UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER.....		6,000												6,000
<b>STILLWATER</b>														
OKLAHOMA STATE UNIVERSITY.....	1	17,900											1	17,900
STATE TOTAL.....	1	26,900											1	26,900
<b>OREGON</b>														
<b>CORVALLIS</b>														
OREGON STATE HIGHER EDUCATION SYSTEM-OREGON STATE UNIVERSITY.....	4	46,500											4	46,500
<b>EUGENE</b>														
OREGON STATE HIGHER EDUCATION SYSTEM-UNIVERSITY OF OREGON.....	5	71,600											5	71,600
<b>PORTLAND</b>														
OREGON STATE HIGHER EDUCATION SYSTEM-UNIVERSITY OF OREGON HEALTH SCIENCES CENTER.....	10	154,306									1	14,600	8	117,100
STATE TOTAL.....	19	272,406									1	14,600	17	235,200

# PENNSYLVANIA

## BETHLEHEM

LEHIGH UNIVERSITY.....

2 32,000

32,000

## HERSHEY

PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER.....

12 157,867

153,435

## PHILADELPHIA

CHILDREN'S HOSPITAL OF PHILADELPHIA.....

2 35,400

35,400

DREXEL UNIVERSITY.....

1 17,375

14,500

INSTITUTE FOR CANCER RESEARCH.....

6 77,900

77,900

LANEKAU HOSPITAL.....

1 16,800

16,800

MEDICAL COLLEGE OF PENNSYLVANIA.....

5 71,278

56,000

PENNSYLVANIA COLLEGE OF OPTOMETRY.....

2 24,900

24,900

TEMPLE UNIVERSITY.....

4 70,573

59,700

THOMAS JEFFERSON UNIVERSITY.....

3 37,533

37,533

UNIVERSITY OF PENNSYLVANIA.....

41 636,387

563,233

WISTAR INSTITUTE OF ANATOMY AND BIOLOGY.....

3 48,400

48,400

## PITTSBURGH

CHILDREN'S HOSPITAL OF PITTSBURGH.....

16 3,000

3,000

UNIVERSITY OF PITTSBURGH.....

213,371

194,131

## UNIVERSITY PARK

PENNSYLVANIA STATE UNIVERSITY.....

3,000

3,000

STATE TOTAL.....

98 1,445,784

1,319,932

# RHODE ISLAND

## PROVIDENCE

BROWN UNIVERSITY.....

8 102,428

81,400

STATE TOTAL.....

8 102,428

81,400



**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>SOUTH CAROLINA</b>														
<b>CHARLESTON</b>														
MEDICAL UNIVERSITY OF SOUTH CAROLINA.....	2	38,646									1	21,046	1	17,600
<b>COLUMBIA</b>														
UNIVERSITY OF SOUTH CAROLINA.....		5,918												5,918
STATE TOTAL.....	2	44,564									1	21,046	1	23,518
<b>TENNESSEE</b>														
<b>KNOXVILLE</b>														5,813
UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE AT KNOXVILLE.....		5,813												5,813
<b>MEMPHIS</b>														
ST. JUDE CHILDREN'S RESEARCH HOSPITAL.....	4	65,267											4	65,267
UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES.....	2	37,485									1	21,285	1	16,200
<b>NASHVILLE</b>														
MEHARRY MEDICAL COLLEGE.....	1	16,975											1	13,975
VANDERBILT UNIVERSITY.....	16	188,046									2	8,446	14	178,600
<b>OAK RIDGE</b>														
OAK RIDGE ASSOCIATED UNIVERSITIES.....	1	10,468										744	1	9,724
STATE TOTAL.....	24	324,854												

**TEXAS**

# AUSTIN

UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS AT AUSTIN

## DALLAS

BAYLOR UNIVERSITY MEDICAL CENTER.

SOUTHERN METHODIST UNIVERSITY

UNIVERSITY OF TEXAS SYSTEM • UNIVERSITY OF TEXAS HEALTH SCIENCE

UNIVERSITY OF TEXAS AT  
DALLAS

## GALVESTON

UNIVERSITY OF TEXAS SYSTEM--UNIVERSITY OF TEXAS MEDICAL BRANCH AT

GALVESTON

## HOUSTON

BAYLOR COLLEGE OF MEDICINE

BAYLOR UNIVERSITY  
BAYLOR COLLEGE

RICE UNIVERSITY.....

UNIVERSITY OF HOUSTON

UNIVERSITY OF TEXAS SYSTEM

**CENTER AT HOUSTON.....**

UNIVERSITY

**SAN ANTONIO**

UNIVERSITY OF TEXAS SYSTEM UNIVERSITY OF TEXAS HEALTH SCIENCE

UNIVERSITY OF TEAMS SYSTEMS

**CENTER AT SAN ANTO**

## ИТАН

## SALT LAKE CITY

UTAH STATE HIGHER EDUCATION SYSTEM UNIVERSITY OF UTAH

003 KENNETH J. WILSON

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**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>VERMONT</b>														
<b>BURLINGTON</b>														
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE	4	65,239									2	38,039	2	27,200
STATE TOTAL	4	65,239									2	38,039	2	27,200
<b>VIRGINIA</b>														
<b>CHARLOTTESVILLE</b>														
UNIVERSITY OF VIRGINIA	26	346,250	1	6,400			2	25,393					23	314,457
<b>RICHMOND</b>														
VIRGINIA COMMONWEALTH UNIVERSITY	5	52,867											5	52,867
STATE TOTAL	31	399,117	1	6,400			2	25,393					28	367,324
<b>WASHINGTON</b>														
<b>PULLMAN</b>														
WASHINGTON STATE UNIVERSITY		6,000												6,000
<b>SEATTLE</b>														
UNIVERSITY OF WASHINGTON	53	760,810				1,000			1	4,233	3	58,451	49	697,126

**MORGANTOWN**

WEST VIRGINIA UNIVERSITY

3,000

3,000

STATE TOTAL

3,000

3,000

**WISCONSIN****MADISON**

UNIVERSITY OF WISCONSIN SYSTEM-UNIVERSITY OF WISCONSIN-MADISON

706,704

1,000

11

4

46,984

48

658,709

**MILWAUKEE**

MARQUETTE UNIVERSITY

15,200

15,200

MEDICAL COLLEGE OF WISCONSIN

53,433

53,433

MILWAUKEE BLOOD CENTER

10,773

10,773

STATE TOTAL

786,110

1,000

11

4

46,984

54

738,115

**PUERTO RICO****SAN JUAN**

UNIVERSITY OF PUERTO RICO SYSTEM-UNIVERSITY OF PUERTO RICO

5,190

5,190

MEDICAL SCIENCES CAMPUS

STATE TOTAL

5,190

5,190

**AUSTRALIA****CANBERRA**

AUSTRALIAN NATIONAL UNIVERSITY

44,762

44,762

STATE TOTAL

44,762

44,762

**AUSTRIA****INNSBRUCK**

UNIVERSITY OF INNSBRUCK

3,000

3,000

STATE TOTAL

3,000

3,000



[illegible]

**DENMARK****COPENHAGEN**

UNIVERSITY OF COPENHAGEN.....

3,000

3,000

**ODENSE**

ODENSE UNIVERSITY.....

250

250

STATE TOTAL.....

3,250

250

3,000

**FRANCE****PARIS**

PASTEUR INSTITUTE.....

10,000

10,000

STATE TOTAL.....

10,000

10,000

**GERMANY FED R****BOCHUM**

UNIVERSITY OF THE RUHR.....

15,377

15,377

**GIESSEN**

JUSTUS LIEBIG UNIVERSITY OF GIESSEN.....

3,000

3,000

**GOTTINGEN**MAX PLANCK SOCIETY FOR THE ADVANCEMENT OF SCIENCE-INSTITUTE FOR  
BIOPHYSICAL CHEMISTRY.....

10,443

10,443

MAX PLANCK SOCIETY FOR THE ADVANCEMENT OF SCIENCE-INSTITUTE FOR  
EXPERIMENTAL MEDICINE.....

4,163

4,163

**MULHEIM**

INSTITUTE OF RADIATION CHEMISTRY.....

750

750

STATE TOTAL.....

33,733

33,733

**Table 2.—Summary of NIH Fellowships by Area, Organization, and Activity,  
Fiscal Year 1976 and Transition Quarter—Continued**

Area and organization	Total		Predoctoral fellowship awards		Postdoctoral fellowship awards		Special fellowship awards		Minority institutions fellowship awards		International fellowship awards		Individual research fellowship awards	
	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
<b>ISRAEL</b>														
REHOVOTH														
WEIZMANN INSTITUTE OF SCIENCE	2	29,199									1	6,815	1	22,384
TEL AVIV														
TEL AVIV UNIVERSITY	1	13,774											1	13,774
STATE TOTAL	3	42,973									1	6,815	2	36,158
<b>ITALY</b>														
PISA														
UNIVERSITY OF PISA		4,086												4,086
STATE TOTAL		4,086												4,086
<b>NETHERLANDS</b>														
ROTTERDAM														
ERASMUS UNIVERSITY OF ROTTERDAM	1	13,745											1	13,745
STATE TOTAL	1	13,745											1	13,745
<b>NORWAY</b>														
OSLO														
UNIVERSITY OF OSLO	1	10,800											1	10,800
STATE TOTAL	1	10,800											1	10,800

## SWEDEN

### GOTHENBURG

GOTHENBURG UNIVERSITY

57,845

4

57,845

### LUND

UNIVERSITY OF LUND

23,400

2

23,400

### STOCKHOLM

CAROLINE INSTITUTE

34,323

2

34,323

ROYAL COLLEGE OF GYMNASTICS AND SPORTS

10,000

1

10,000

### UPPSALA

UNIVERSITY OF UPPSALA

41,169

3

40,632

STATE TOTAL

166,737

12

166,200

## SWITZERLAND

### BASEL

UNIVERSITY OF BASEL

27,558

1

27,558

### BERN

UNIVERSITY OF BERN

10,000

1

10,000

### GENEVA

UNIVERSITY OF GENEVA

3,000

3,000

### LAUSANNE

SWISS INSTITUTE FOR EXPERIMENTAL CANCER RESEARCH

23,310

2

23,310

### ZURICH

SWISS FEDERAL INSTITUTE OF TECHNOLOGY

800

800

UNIVERSITY OF ZURICH

13,968

1

13,965

STATE TOTAL

78,636

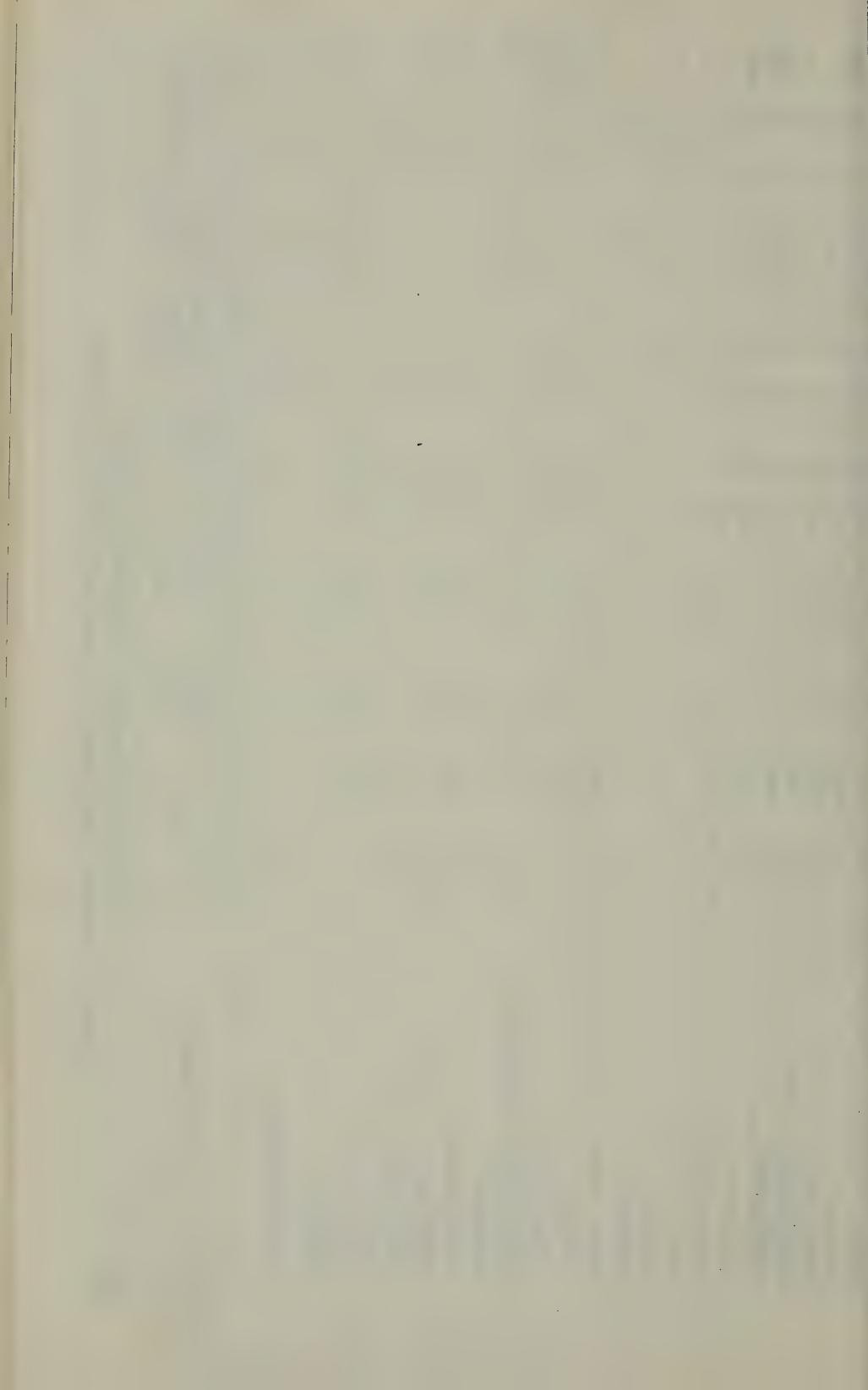
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78,553



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<b>OXFORD</b>	RADCLIFFE INFIRMARY .....	2	21,972															21,972
	UNIVERSITY OF OXFORD .....	4	54,465															54,465
<b>SAINT ANDREWS</b>	UNIVERSITY OF ST. ANDREWS .....	1	16,400															16,400
	STATE TOTAL .....	35	495,741			1	12,200											483,541



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter**

Program director	General area of training	Grant number	Dollars
TOTAL 1,471 GRANTS.....			104,567,275
<b>ALABAMA</b>			
<b>BIRMINGHAM</b>			
UNIVERSITY OF ALABAMA IN BIRMINGHAM      ZIP CODE 35294			
ACTON, RONALD T.....	PATHOLOGY OF MEMBRANES AND ORGANELLES.....	5T22 GM00130-03	27,251
ALFORD, CHARLES A. JR.....	PERINATAL INFECTIONS AND IMMUNITY.....	5T01 HD00413-05	86,265
ANDREOLI, THOMAS E.....	PHYSIOLOGY AND PATHOLOGY OF TRANSPORT PROCESSES.....	5T32 GM07195-02	73,972
CHRISTENSEN, JERRY.....	VISUAL SCIENCES.....	1T32 EY07033-01	22,263
CURTISS, ROY, III.....	INFECTIOUS DISEASES.....	1T32 AI07041-01	55,331
CURTISS, ROY, III.....	MOLECULAR, CELLULAR AND MEDICAL GENETICS.....	5T32 GM07090-02	58,244
CURTISS, ROY, III.....	MOLECULAR CELL BIOLOGY.....	5T32 GM07164-02	63,790
DIETHELM, ARNOLD G.....	CLINICAL SURGERY.....	5T01 GM01924-09	79,445
MACY, JOSIAH, JR.....	COMPUTER AND INFORMATION SCIENCE IN MEDICINE.....	5T01 LM00154-05	113,647
MENAKER, LEWIS.....	DENTAL AND BIOLOGICAL SCIENCE.....	5T01 DE00007-20	24,264
NAVIA, JUAN M.....	NUTRITION AND ORAL HEALTH.....	5T32 DE07020-02	72,275
RODEN, LENNART.....	BIOCHEMISTRY AND IMMUNOLOGY OF JOINTS, BONE AND SKIN.....	5T32 AM07069-02	29,129
STROUD, ROBERT M.....	ALLERGIC AND IMMUNOLOGIC DISEASES AND BASIC IMMUNITY.....	1T32 AI07051-01	54,775
ORGANIZATION TOTAL      13	760,651		
<b>TUSKEGEE INSTITUTE</b>			
TUSKEGEE INSTITUTE      ZIP CODE 36088			
BOWIE, WALTER C.....	HEALTH RELATED SCIENCES.....	5T01 GM02264-03	84,994
ORGANIZATION TOTAL      1	84,994		
<b>UNIVERSITY</b>			
UNIVERSITY OF ALABAMA      ZIP CODE 35486			
ELLIS, NORMAN R.....	MENTAL RETARDATION.....	5T01 HD00124-11	56,305
ORGANIZATION TOTAL      1	56,305		
STATE TOTAL      15	901,950		
<b>ARIZONA</b>			
<b>TEMPE</b>			
ARIZONA STATE UNIVERSITY      ZIP CODE 85281			
WOOLF, CHARLES M.....	GENETICS.....	3T01 GM01433-08S1	1,944
WOOLF, CHARLES M.....	GENETICS.....	5T01 GM01433-09	28,902

NOTE: Grants are listed according to the State or county and city of the component part of the organization professionally responsible for the work (see Technical Note, p. ix). If an organization appears in more than one geographic location or requires a clarifying comment, appropriate annotations have been made in the Appendix.



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training		Grant number	Dollars
ARIZONA—Con.				
ORGANIZATION TOTAL	2	30,846		
TUCSON				
UNIVERSITY OF ARIZONA	ZIP CODE 85721			
BERNSTEIN, HARRIS.....	MOLECULAR AND CELLULAR ASPECTS OF BIOLOGICAL FUNCTION.....		5T32 GM07239-02	39,616
BRESSLER, RUBIN.....	CLINICAL PHARMACOLOGY.....		5T22 GM00071-03	45,059
JOHNSON, PAUL C.....	PHYSIOLOGY.....		5T01 HL05884-06	56,936
MATHEWS, CHRISTOPHER K.....	BIOCHEMISTRY.....		5T01 GM01982-08	51,832
ORGANIZATION TOTAL	4	193,443		
STATE TOTAL	6	224,289		
ARKANSAS				
LITTLE ROCK				
UNIVERSITY OF ARKANSAS MEDICAL SCIENCES CAMPUS	ZIP CODE 72201			
WESTBROOK, KENT C.....	CLINICAL CANCER.....		5T12 CA08163-03	96,878
ORGANIZATION TOTAL	1	96,878		
STATE TOTAL	1	96,878		
CALIFORNIA				
BERKELEY				
CALIFORNIA STATE HEALTH AND WELFARE AGENCY—DEPARTMENT OF HEALTH	ZIP CODE 94704			
LENNETTE, EDWIN H.....	MICROBIOLOGY.....		5T01 AI00457-13	5,129
ORGANIZATION TOTAL	1	5,129		
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT BERKELEY	ZIP CODE 94720			
BRIGGS, GEORGE M.....	EXPERIMENTAL NUTRITIONAL SCIENCES.....		5T01 GM01188-13	53,591
FOGEL, SEYMOUR.....	GENETICS.....		5T32 GM07127-02	85,130
FOSTER, GEORGE M.....	ANTHROPOLOGY.....		5T01 GM01224-13	96,349
KOSHLAND, DANIEL E, JR.....	BIOCHEMISTRY.....		3T01 GM00031-18S1	33,804
KOSHLAND, DANIEL E, JR.....	BIOCHEMISTRY.....		5T01 GM00031-19	245,142
LAWRENCE, JOHN H.....	NUCLEAR MEDICINE.....		5T01 GM01752-10	17,795
LEWIS, EDWIN R.....	BIOMEDICAL ENGINEERING.....		5T01 GM01418-12	9,424
MACEY, ROBERT I.....	PHYSICAL BIOCHEMISTRY.....		3T01 GM01021-13S1	10,228
MACEY, ROBERT I.....	PHYSICAL BIOCHEMISTRY.....		5T01 GM01021-14	77,092
MARG, ELWIN.....	PHYSIOLOGICAL OPTICS.....		3T01 EY00076-04S1	21,853
MARG, ELWIN.....	PHYSIOLOGICAL OPTICS.....		5T01 EY00076-05	74,694
MARGEN, SHELTON.....	HUMAN NUTRITION.....		5T01 AM05511-06	12,569
MEL, HOWARD C.....	BIOPHYSICS.....		3T01 GM00829-14S1	1,711
MEL, HOWARD C.....	BIOPHYSICS.....		5T01 GM00829-15	152,343
MENDELSON, MORTIMER L.....	CELL CYCLE ANALYSIS: NORMAL AND MALIGNANT CELLS.....		1T32 CA09133-01	16,956
MORTIMER, ROBERT K.....	RADIATION BIOPHYSICS.....		1T32 CA09272-01	126,682
MUSSEN, PAUL H.....	DEVELOPMENTAL PSYCHOLOGY.....		5T01 HD00153-08	45,923
NANDI, SATYABRATA.....	EXPERIMENTAL BIOLOGY OF CANCER AND ALLIED AREAS.....		5T01 CA05045-18	13,196
NANDI, SATYABRATA.....	EXPERIMENTAL BIOLOGY OF CANCER AND ALLIED AREAS.....		5T32 CA09041-02	91,348
POSTMAN, LEO J.....	PSYCHOLOGY.....		5T01 GM01207-13	72,496
SCHACHMAN, HOWARD K.....	MOLECULAR BIOLOGY.....		3T01 GM01389-11S1	14,904
SCHACHMAN, HOWARD K.....	MOLECULAR BIOLOGY.....		5T01 GM01389-12	70,499
SHORE, BERNARD.....	NUTRITION IN HEART AND VASCULAR DISEASE.....		5T32 HL07058-02	36,016

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
SMITH, RAY F.....	ENTOMOLOGY AND PARASITOLOGY.....	5T01 AI00218-15	82,848
WERBLIN, FRANK S.....	NEUROBIOLOGY.....	5T32 GM07048-02	46,137
WINKELSTEIN, WARREN, JR.....	CANCER EPIDEMIOLOGY.....	5T01 CA05302-03	82,420
WINKELSTEIN, WARREN, JR.....	MEDICAL GENETICS.....	5T01 GM00008-20	78,642
WOFSY, LEON.....	IMMUNOLOGY.....	5T32 CA09179-02	193,436
ORGANIZATION TOTAL 28	1,863,228		
<b>DAVIS</b>			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT DAVIS ZIP CODE 95616</b>			
CROSS, CARROLL E.....	PULMONARY DISEASES.....	5T32 HL07013-02	78,220
DOI, ROY H.....	BIOCHEMISTRY.....	3T01 GM00119-17S1	9,154
DOI, ROY H.....	BIOCHEMISTRY.....	5T01 GM00119-18	139,060
DUNGWORTH, DONALD L.....	COMPARATIVE PATHOLOGY.....	5T01 GM00537-16	23,648
GESCHWIND, IRVING I.....	PHYSIOLOGY.....	5T01 GM01934-08	53,642
HURLEY, LUCILLE S.....	NUTRITION IN RELATION TO PROBLEMS OF ORAL BIOLOGY.....	5T32 DE07001-02	54,089
INGRAHAM, JOHN L.....	MICROBIOLOGY.....	5T01 GM01041-14	59,914
KILGORE, WENDELL W.....	ENVIRONMENTAL TOXICOLOGY.....	5T01 ES00125-09	71,920
MASON, DEAN T.....	CARDIOVASCULAR MEDICINE.....	5T01 HL05901-06	181,980
OSEBOLD, JOHN W.....	MICROBIOLOGY.....	5T01 GM00762-14	44,119
WELLINGS, SEFTON R.....	COMPARATIVE TUMOR BIOLOGY.....	5T01 CA05245-07	144,451
ORGANIZATION TOTAL 11	860,197		
<b>IRVINE</b>			
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT IRVINE ZIP CODE 92664</b>			
GRANGER, GALE A.....	CARCINOGENESIS.....	5T32 CA09054-02	67,855
SCHNEIDERMAN, HOWARD A.....	DEVELOPMENTAL MECHANISMS UNDERLYING CONGENITAL DEFECTS.....	5T32 HD07029-02	50,597
SYMPHERD, PAUL S.....	REGULATION OF BIOLOGICAL PROCESSES.....	5T32 GM07134-02	52,980
SYMPHERD, PAUL S.....	INFECTIOUS AGENTS AND DISEASE PROCESSES.....	5T32 GM07307-02	46,588
TILLES, JEREMIAH G.....	VIRAL DISEASES.....	5T01 AI00466-03	37,198
WARNER, ROBERT C.....	CELLULAR AND MOLECULAR BIOLOGY.....	5T32 GM07311-02	70,561
ORGANIZATION TOTAL 6	325,779		
<b>LA JOLLA</b>			
<b>SALK INSTITUTE FOR BIOLOGICAL STUDIES ZIP CODE 92037</b>			
COHN, MELVIN.....	ONCOLOGY RESEARCH.....	1T32 CA09254-01	93,732
ORGANIZATION TOTAL 1	93,732		
<b>SCRIPPS CLINIC AND RESEARCH FOUNDATION ZIP CODE 92037</b>			
HUENNEKENS, FRANK M.....	BIOCHEMISTRY.....	5T32 AM07097-02	39,866
MULLER-EBERHARD, HANS J.....	BLOOD SYSTEMS IN COAGULATION AND VESSEL DISEASE.....	1T32 HL07195-01	77,351
SPIZIZEN, JOHN.....	MICROBIOLOGY.....	5T01 GM02293-02	64,259
SPIZIZEN, JOHN.....	MICROBIOLOGY.....	5T01 GM02293-03	73,967
TAN, ENG M.....	ALLERGY AND IMMUNOLOGY.....	5T01 AI00214-15	51,775
VAUGHAN, JOHN H.....	IMMUNOLOGY IN RHEUMATIC DISEASES.....	5T32 AM07144-02	19,529
ORGANIZATION TOTAL 6	326,747		
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN DIEGO ZIP CODE 92037</b>			
BERNSTEIN, EUGENE F.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	5T32 HL07089-02	109,135
BLOOR, COLIN M.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	5T32 HL07104-02	74,054
BRAUDE, ABRAHAM I.....	RESEARCH IN INFECTIOUS DISEASES.....	1T32 AI07036-01	76,068
DEFTOS, LEONARD J.....	DISEASES OF BONE AND CALCIUM METABOLISM.....	5T32 AM07048-02	14,256
DUTTON, RICHARD W.....	CELLULAR IMMUNOLOGY.....	5T01 AI00453-05	66,011
DUTTON, RICHARD W.....	REGULATORY MECHANISMS IN THE IMMUNE RESPONSE.....	5T32 CA09174-02	191,828
GEIDUSCHKE, E PETER.....	CELL AND MOLECULAR BIOLOGY.....	5T32 GM07313-02	221,796
GOULIAN, MEHRAN.....	HEMATOLOGY.....	5T32 HL07107-02	62,400

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
HOUGIE, CECIL.....	HEMATOLOGY.....	5T32 HL07059-02	42,016
KAMEN, MARTIN D.....	PHYSICAL BIOCHEMISTRY.....	3T01 GM01045-13S1	4,186
KARLINER, JOEL S.....	MEDICAL OR PEDIATRIC CARDIOLOGY.....	5T01 HL05846-08	178,244
LEIN, ALLEN.....	MEDICAL SCIENTIST.....	5T32 GM07198-02	72,229
LINDSLEY, DAN L, JR.....	GENETIC MECHANISMS AND REGULATION.....	5T32 GM07240-02	159,316
MASOUREDIS, SERAFEIM P.....	BLOOD BANKING SCIENCES AND RELATED PROGRAMS.....	5T32 HL07119-02	35,951
MAYER, STEVEN E.....	PHARMACOLOGY.....	5T01 GM02267-03	77,224
MOSER, KENNETH M.....	PULMONARY MEDICINE.....	5T32 HL07022-02	40,241
MOSER, KENNETH M.....	PULMONARY MEDICINE.....	5T17 HL07163-02	81,000
NESBITT, MURIEL.....	BASIC AND MEDICAL GENETICS.....	5T32 GM07199-02	82,080
O'BRIEN, JOHN S.....	NEUROBIOLOGY.....	1T32 NS07086-01	77,405
SATO, GORDON H.....	CANCER BIOLOGY AND BIOCHEMISTRY.....	5T01 CA05274-03	96,699
SEEGMILLER, JARVIS E.....	MEDICAL GENETICS.....	5T22 GM00054-03	67,759
SELVERSTON, ALLEN I.....	NEUROBIOLOGY.....	5T32 GM07153-02	73,977
TRAYLOR, TEDDY G.....	HEMOGLOBIN AND BLOOD PROTEIN CHEMISTRY.....	1T32 AM07233-01	131,512
WEST, JOHN B.....	PHYSIOLOGICAL BASIS OF PULMONARY DISEASE.....	3T01 HL05931-04S1	10,870
WEST, JOHN B.....	PHYSIOLOGICAL BASIS OF PULMONARY DISEASE.....	1T32 HL07212-01	56,367
WHEELER, HENRY O.....	GASTROENTEROLOGY.....	1T32 AM07202-01	9,764
YGUERABIDE, JUAN.....	MEMBRANE BIOLOGY IN RELATION TO DISEASE.....	5T32 GM07169-02	92,155
ZETTNER, ALFRED.....	INVESTIGATIVE AND CLINICAL PATHOLOGY.....	5T01 GM02179-02	41,038
ZETTNER, ALFRED.....	INVESTIGATIVE AND CLINICAL PATHOLOGY.....	5T01 GM02179-03	53,112
ZVAIFLER, NATHAN J.....	RHEUMATIC DISEASES.....	5T32 AM07062-02	39,338
ORGANIZATION TOTAL	30	2,338,031	

#### LOMA LINDA

##### LOMA LINDA UNIVERSITY ZIP CODE 92354

JUDKINS, MELVIN P.....	CARDIOVASCULAR MEDICINE.....	5T01 HL06013-03	73,656
KUZMA, JAN W.....	CANCER EPIDEMIOLOGY.....	1T32 CA09175-01	11,464
ORGANIZATION TOTAL	2	85,120	

#### LOS ANGELES

##### CHILDREN'S HOSPITAL OF LOS ANGELES ZIP CODE 90027

HAYS, DANIEL M.....	CLINICAL CANCER-MEDICAL PEDIATRICS.....	5T12 CA08128-10	159,935
ORGANIZATION TOTAL	1	159,935	

##### UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES ZIP CODE 90024

ATKINSON, DANIEL E.....	BIOCHEMISTRY.....	3T01 GM00463-15S1	11,961
ATKINSON, DANIEL E.....	BIOCHEMISTRY.....	5T01 GM00463-16	74,916
BENNETT, LESLIE R.....	NUCLEAR MEDICINE.....	5T01 GM01920-08	36,308
BOYER, PAUL D.....	MOLECULAR BIOLOGY.....	5T01 GM01531-10	77,549
BOYER, PAUL D.....	CELLULAR AND MOLECULAR BIOLOGY.....	5T32 GM07185-02	73,120
BROWN, JOSIAH.....	ENDOCRINOLOGY AND METABOLISM.....	5T32 AM07094-02	30,475
DETELS, ROGER.....	CANCER EPIDEMIOLOGY.....	5T32 CA09142-02	71,583
FAHEY, JOHN L.....	CLINICAL AND FUNDAMENTAL IMMUNOLOGY.....	5T01 AI00431-05	71,724
FAHEY, JOHN L.....	TUMOR IMMUNOLOGY.....	5T32 CA09120-02	192,691
FOX, CHARLES F.....	TUMOR CELL SURFACES AND CHROMOSOMES.....	5T32 CA09056-02	184,592
FOX, CHARLES F.....	STUDY AND EARLY DETECTION OF MEMBRANE DISEASE.....	5T32 GM07011-02	38,909
GOLDBERG, LOUIS J.....	BASIC SCIENCES.....	5T01 DE00089-13	6,152
GORSKI, ROGER A.....	SYSTEMS AND INTEGRATIVE PHYSIOLOGY WITH COGNATE SCIENCES.....	5T32 GM07191-02	78,437
GREENFIELD, MOSES A.....	MEDICAL PHYSICS.....	5T32 CA09092-02	107,147
GRINNELL, ALAN D.....	CELLULAR NEUROPHYSIOLOGY.....	5T01 NS05670-08	96,852
GROSSMAN, MORTON I.....	GASTROENTEROLOGY.....	1T32 AM07180-01	18,790
HONRUBIA, VICENTE.....	DEVELOPMENTAL NEUROLOGY.....	1T32 NS07059-01	43,807
JENDEN, DONALD J.....	PHARMACOLOGY.....	3T01 GM02040-07S1	2,165
JENDEN, DONALD J.....	PHARMACOLOGICAL SCIENCES.....	5T32 GM07304-02	48,622
LONGMIRE, WILLIAM P, JR.....	SURGERY.....	5T01 GM01559-11	110,228

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
MOMMAERTS, WILFRIED F.....	PHYSIOLOGY.....	5T01 GM00448-16	115,648
MORTON, DONALD L.....	SURGICAL ONCOLOGY.....	5T32 CA09010-02	28,194
NIERLICH, DONALD P.....	GENETIC MECHANISMS.....	5T32 GM07104-02	79,354
PEASE, DANIEL C.....	ANATOMICAL SCIENCES.....	3T01 GM00616-15S1	5,966
PEASE, DANIEL C.....	ANATOMICAL SCIENCES.....	5T01 GM00616-16	27,224
ROSS, JOSEPH F.....	HEMATOLOGY AND HEMATOLOGIC ONCOLOGY.....	5T01 HL06020-19	93,366
SMITH, EMIL L.....	BIOCHEMISTRY.....	3T01 GM00364-16S1	8,813
SMITH, EMIL L.....	BIOCHEMISTRY.....	5T01 GM00364-17	80,380
STIEHM, E RICHARD.....	PEDIATRIC ALLERGIC DISEASES.....	5T32 AI07008-02	37,044
STRAATSMA, BRADLEY R.....	VISION RESEARCH.....	5T32 EY07026-01S1	2,052
STRAATSMA, BRADLEY R.....	VISION RESEARCH.....	5T32 EY07026-02	99,611
VAN LANCKER, JULIEN L.....	MECHANISMS OF CARCINOGENESIS.....	5T32 CA09030-02	89,123
WARD, PAUL H.....	OTOLARYNGOLOGY.....	5T01 NS05295-17	3,331
ORGANIZATION TOTAL	33	2,046,134	
<b>UNIVERSITY OF SOUTHERN CALIFORNIA ZIP CODE 90007</b>			
BEKEY, GEORGE A.....	SYSTEMS PHYSIOLOGY AND BIOMEDICAL ENGINEERING.....	5T32 GM07139-02	88,569
BESSMAN, SAMUEL P.....	CARDIOCHEMICAL PHARMACOLOGY.....	5T01 HL05536-14	75,064
GRODINS, FRED S.....	CARDIOPULMONARY BIOMEDICAL ENGINEERING.....	5T32 HL07012-02	70,572
HAMMOND, G DENMAN.....	CLINICAL CANCER.....	5T12 CA08099-11	242,746
HOCHSTEIN, PAUL E.....	INTERDISCIPLINARY CANCER.....	5T01 CA05297-03	175,796
HORTON, RICHARD.....	ENDOCRINE HYPERTENSION AND ENDOCRINOLOGY-METABOLISM.....	5T32 AM07119-02	19,529
QUILLIGAN, EDWARD J.....	MATERNAL-FETAL MEDICINE.....	1T32 HD07086-01	61,293
SLAVKIN, HAROLD C.....	BIOCHEMISTRY.....	5T01 DE00094-15	80,778
SLAVKIN, HAROLD C.....	MULTIDISCIPLINARY PROGRAM IN CRANIOFACIAL DEVELOPMENT.....	5T22 DE00134-03	35,005
SLAVKIN, HAROLD C.....	CRANIOFACIAL BIOLOGY.....	5T32 DE07006-02	145,084
ORGANIZATION TOTAL	10	994,436	
<b>PALO ALTO</b>			
<b>PALO ALTO MEDICAL RESEARCH FOUNDATION ZIP CODE 94301</b>			
REMINGTON, JACK S.....	BIOCHEMISTRY AND PHYSIOLOGY.....	5T01 AI00260-12	32,834
ORGANIZATION TOTAL	1	32,834	
<b>PASADENA</b>			
<b>CALIFORNIA INSTITUTE OF TECHNOLOGY ZIP CODE 91125</b>			
DAVIDSON, NORMAN R.....	BIOCHEMISTRY.....	3T01 GM01262-12S1	20,088
DAVIDSON, NORMAN R.....	BIOCHEMISTRY.....	5T01 GM01262-13	173,443
FENDER, DEREK H.....	BIOLOGICAL SYSTEMS ANALYSIS OF THE VISUAL PROCESS.....	5T01 EY00085-03	25,637
FENDER, DEREK H.....	VISUAL SYSTEM.....	5T32 EY07011-02	38,041
FRIEDLANDER, SHELDON K.....	ENVIRONMENTAL HEALTH ENGINEERING.....	5T01 ES00080-10	39,715
HOROWITZ, NORMAN H.....	BIOLOGICAL SCIENCES.....	3T01 GM00086-18S1	33,480
HOROWITZ, NORMAN H.....	BIOLOGICAL SCIENCES.....	5T01 GM00086-19	274,985
OLDS, JAMES.....	BEHAVIORAL SCIENCES.....	3T01 GM02031-07S1	4,130
OLDS, JAMES.....	BEHAVIORAL SCIENCES.....	5T01 GM02031-08	54,658
ORGANIZATION TOTAL	9	664,177	
<b>SAN FRANCISCO</b>			
<b>INSTITUTES OF MEDICAL SCIENCES ZIP CODE 94120</b>			
SCOTT, ALAN B.....	EYE MOVEMENT DISORDERS.....	5T32 EY07027-02	42,971
ORGANIZATION TOTAL	1	42,971	
<b>UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO ZIP CODE 94143</b>			
BARINGER, J RICHARD.....	NEUROVIROLOGY.....	1T32 NS07073-01	42,202
BISHOP, J MICHAEL.....	THE MOLECULAR ANALYSIS OF TUMOR VIRUSES.....	5T32 CA09043-02	147,590
BLOIS, MARSDEN S, JR.....	MEDICAL INFORMATION SCIENCES.....	5T01 LM00153-05	112,268



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
BLOIS, MARSDEN S. JR.	MEDICAL INFORMATION SCIENCES	5T15 LM07000-02	73,200
CARLSSON, S. ERIK	CARDIOVASCULAR RADIOLOGY	5T01 HL05824-09	5,159
COLERIDGE, JOHN C. G.	CARDIOPULMONARY PHYSIOLOGY	5T01 HL05251-18	353,641
COLERIDGE, JOHN C. G.	HEART AND VASCULAR DISEASES	1T32 HL07192-01	288,493
COMROE, JULIUS H. JR.	PULMONARY MEDICINE	5T17 HL07159-02	189,000
DUNPHY, J. ENGLEBERT	SURGERY	5T01 GM01474-11	72,064
FISKE, MARJORIE	TRAINING PROGRAM IN ADULT DEVELOPMENT AND AGING	5T01 AG00022-09	171,925
FRICK, OSCAR L.	IMMUNOLOGY—ALLERGY	5T22 AI00011-03	34,131
FUKUYAMA, KIMIE	DERMATOLOGY RESEARCH	1T32 AM07175-01	19,297
GANONG, WILLIAM F.	PHYSIOLOGY	5T01 GM00927-14	71,184
GRUMBACH, MELVIN M.	PEDIATRIC ENDOCRINOLOGY	1T32 AM07161-01	9,764
HOLLIDAY, MALCOLM A.	FUNCTION, GROWTH & NUTRITION IN PEDIATRIC NEPHROLOGY	5T01 HD00182-10	52,239
HOYT, WILLIAM F.	OPHTHALMOLOGY AND NEUROLOGY	5T01 EY00083-05	14,467
JORGENSEN, EUGENE C.	PHARMACEUTICAL CHEMISTRY	5T01 GM00728-15	110,062
KAUFMAN, LEON	MEDICAL NUCLEAR PHYSICS	5T32 CA09158-02	11,550
KITTERMAN, JOSEPH A.	PERINATAL INFECTIONS AND IMMUNITY	5T01 HD00397-05	47,083
MARGULIS, ALEXANDER R.	DIAGNOSTIC RADIOLOGY	5T01 GM01272-12	173,638
MELMON, KENNETH L.	CLINICAL PHARMACOLOGY AND PHARMACOKINETICS	5T22 GM00001-03	78,965
MELMON, KENNETH L.	CLINICAL PHARMACOLOGY AND PHARMACOKINETICS	5T01 GM01791-10	85,309
NADEL, JAY A.	LUNG DISEASES—MULTIDISCIPLINARY	1T32 HL07185-01	281,845
OCKNER, ROBERT K.	DIGESTIVE DISEASES AND NUTRITION	5T32 AM07007-02	39,057
OSTLER, HOWARD B.	OCULAR INFLAMMATORY DISEASES	5T01 EY00094-03	84,052
PATT, HARVEY M.	EXPERIMENTAL ONCOLOGY	5T01 CA05303-03	77,558
PHILLIPS, THEODORE L.	RADIATION THERAPY—CANCER	5T01 CA05177-13	156,278
RECTOR, FLOYD C. JR.	ACADEMIC NEPHROLOGY AND ELECTROLYTE METABOLISM	1T32 AM07219-01	22,306
RUTTER, WILLIAM J.	MOLECULAR BIOLOGY OF EUKARYOTIC CELLS AND VIRUSES	1T32 CA09270-01	118,807
RUTTER, WILLIAM J.	BIOCHEMICAL GENETICS OF EUKARYOTES	3T01 GM02197-05S1	7,776
RUTTER, WILLIAM J.	BIOCHEMICAL GENETICS OF EUKARYOTES	5T01 GM02197-06	16,508
SHELDON, GEORGE F.	TRAUMA CENTER	5T32 GM07032-02	21,008
SHOHEI, STEPHEN B.	BLOOD BANKING SCIENCES AND RELATED PROGRAMS	5T32 HL07100-02	81,742
WILSON, CHARLES B.	NEUROLOGICAL SURGERY	5T01 NS05593-08	80,780
ORGANIZATION TOTAL	34	3,150,948	
<b>SANTA BARBARA</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT SANTA BARBARA      ZIP CODE 93106			
HORVATH, STEVEN M.	PHYSIOLOGY OF EXERCISE AND STRESS	5T01 AG00021-08	104,641
ORGANIZATION TOTAL	1	104,641	
<b>STANFORD</b>			
STANFORD UNIVERSITY      ZIP CODE 94305			
BERNFELD, MERTON R.	MOLECULAR PATHOLOGY OF CELL MEMBRANES	5T32 GM07026-02	94,108
COHEN, STANLEY N.	CLINICAL PHARMACOLOGY	5T32 GM07065-02	41,660
CUTLER, ROBERT W.	DEVELOPMENTAL NEUROLOGY	5T32 NS07012-02	75,113
EHRlich, PAUL R.	POPULATION BIOLOGY	3T01 GM00365-14S1	6,723
EHRlich, PAUL R.	POPULATION BIOLOGY	5T01 GM00365-15	53,438
FARQUHAR, JOHN W.	CARDIOVASCULAR DISEASE PREVENTION	5T32 HL07034-02	98,904
GRAY, GARY M.	GASTROENTEROLOGY	5T32 AM07056-02	19,512
GRUMET, FRANK C.	BLOOD BANKING AND TISSUE TYPING	1T32 HL07127-01A1	39,927
HANAWALT, PHILIP	CELLULAR AND MOLECULAR BIOLOGY	5T32 GM07276-02	87,920
HARRISON, DONALD C.	CARDIOVASCULAR DISEASE	5T01 HL05866-07	219,078
KAPLAN, HENRY S.	CLINICAL CANCER—MEDICAL	5T12 CA08122-10	348,543
KENNEDY, DONALD	INTEGRATIVE BIOLOGY	5T32 GM07181-02	98,766
KORN, DAVID	TUMOR BIOLOGY	5T32 CA09151-02	109,323
KORN, DAVID	PATHOLOGY	5T01 GM02236-02	52,855
KORN, DAVID	PATHOLOGY	5T01 GM02236-03	52,067
LARSON, C. PHILIP, JR.	ANESTHESIOLOGY	5T01 GM00862-16	43,238

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>CALIFORNIA—Con.</b>			
LEDERBERG, JOSHUA.....	PHARMACOLOGY.....	5T22 GM00198-03	51,787
LEDERBERG, JOSHUA.....	GENETICS.....	5T01 GM00295-18	117,361
LEHMAN, I ROBERT.....	BIOCHEMISTRY.....	5T01 GM00196-18	153,295
MANSOUR, TAG.....	PHARMACOLOGY.....	5T32 GM07149-02	68,671
MOSES, LINCOLN E.....	MEDICAL GENETICS.....	5T01 GM00025-19	88,091
PARKER, EDWIN B.....	BIOMEDICAL COMMUNICATION AND INFORMATION SCIENCE.....	5T01 LM00135-05	28,641
PAUL, BENJAMIN D.....	SOCIO MEDICAL ANTHROPOLOGY.....	3T01 GM01485-08S1	3,904
PAUL, BENJAMIN D.....	SOCIO MEDICAL ANTHROPOLOGY.....	5T01 GM01485-09	154,780
REAVEN, GERALD M.....	DIABETES, ENDOCRINOLOGY AND METABOLOGY.....	1T32 AM07217-01	9,764
ROBIN, EUGENE D.....	PULMONARY CLINICAL SCIENTIST.....	5T01 HL05929-06	133,932
ROSENBERG, SAUL A.....	INVESTIGATIVE ONCOLOGY.....	5T01 CA05289-03	152,718
ROSENTHAL, A RALPH.....	BASIC SCIENCES.....	5T01 EY00051-09	74,305
RUBINSTEIN, LUCIEN J.....	NEUROPATHOLOGY.....	5T01 NS05500-11	51,483
SCHIMKE, ROBERT T.....	MEDICAL SCIENTIST.....	5T05 GM01922-09	220,101
SCHUBERT, EARL D.....	AUDIOLOGY.....	5T01 NS05419-13	70,581
SIMMONS, F BLAIR.....	OTOLARYNGOLOGY.....	5T01 NS05582-11	67,840
SUNSHINE, PHILIP.....	DEVELOPMENTAL BIOLOGY AND NEONATOLOGY.....	5T01 HD00049-16	144,361
YANOFKY, CHARLES.....	BIOCHEMICAL GENETICS.....	5T01 GM00158-19	116,181
ORGANIZATION TOTAL	34	3,148,971	
<b>TORRANCE</b>			
LOS ANGELES COUNTY HEALTH SERVICES DEPARTMENT—LOS ANGELES COUNTY HARBOR GENERAL HOSPITAL		ZIP CODE 90509	
IMAGAWA, DAVID T.....	PATHOGENESIS AND EPIDEMIOLOGY OF INFECTIOUS DISEASES.....	1T32 AI07014-01	58,177
RIMOIN, DAVID L.....	MEDICAL GENETICS AND BIRTH DEFECTS.....	5T01 HD00417-05	46,105
STEWART, RAY E.....	ORAL-FACIAL GENETICS AND CRANIOFACIAL ANOMALIES.....	5T22 DE00102-03	67,180
WASSERMAN, KARLMAN.....	BIOLOGICAL BASIS OF RESPIRATORY DISEASE.....	5T01 HL05916-06	122,915
ORGANIZATION TOTAL	4	294,377	
STATE TOTAL	213	16,537,387	
<b>COLORADO</b>			
<b>BOULDER</b>			
UNIVERSITY OF COLORADO		ZIP CODE 80302	
MC CLEARN, GERALD E.....	BEHAVIORAL PHARMACOGENETICS.....	5T32 GM07305-02	34,983
SUEOKA, NOBORU.....	MOLECULAR BIOLOGY.....	5T32 GM07135-02	44,457
ORGANIZATION TOTAL	2	79,440	
<b>DENVER</b>			
NATIONAL ASTHMA CENTER		ZIP CODE 80204	
ALEXANDER, A BARNEY.....	RESPIRATORY DISEASES.....	5T32 HL07026-02	38,353
ORGANIZATION TOTAL	1	38,353	
NATIONAL JEWISH HOSPITAL AND RESEARCH CENTER		ZIP CODE 80206	
FARR, RICHARD S.....	ALLERGIC DISEASES.....	5T32 AI00048-02	66,701
ORGANIZATION TOTAL	1	66,701	
UNIVERSITY OF COLORADO MEDICAL CENTER		ZIP CODE 80220	
BATTAGLIA, FREDERICK C.....	PERINATAL MEDICINE.....	5T01 HD00429-03	66,412
CHIDSEY, CHARLES A.....	CLINICAL PHARMACOLOGY.....	5T32 GM07063-02	56,663
CLAMAN, HENRY N.....	ALLERGY AND IMMUNOLOGY.....	5T01 AI00013-18	51,155
CROWLE, ALFRED J.....	CELLULAR IMMUNOLOGY.....	1T32 AI07035-01	33,621
CUMMINGS, DONALD.....	MICROBIOLOGY.....	5T01 GM02219-05	51,134

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>COLORADO—Con.</b>			
EICKHOFF, THEODORE C.....	INFECTIOUS DISEASES.....	1T32 A107029-01	88,483
GROVER, ROBERT F.....	RESPIRATORY AND CIRCULATORY CONTROL MECHANISMS.....	5T01 HL05973-04	60,804
GROVER, ROBERT F.....	RESPIRATION AND CIRCULATION DURING HYPOXIA.....	1T32 HL07171-01	67,611
HENDEE, WILLIAM R.....	MEDICAL PHYSICS.....	5T32 CA09073-02	33,132
JAFEK, BRUCE W.....	OTOLARYNGOLOGY.....	5T01 NS05504-11	31,205
KERN, FRED, JR.....	GASTROINTESTINAL DISEASES.....	5T32 AM07038-02	39,057
KOZLOFF, LLOYD M.....	MICROBIOLOGY.....	3T01 GM02219-04S1	3,730
NORA, JAMES J.....	CARDIOVASCULAR-PULMONARY PEDIATRICS.....	5T01 HL05981-04	67,912
PETTY, THOMAS L.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	5T32 HL07085-02	81,073
PIERCE, G BARRY.....	TUMOR BIOLOGY-DEVELOPMENT AND NEOPLASIA.....	5T32 CA09157-02	59,612
PUCK, THEODORE T.....	BIOPHYSICS.....	5T01 GM00781-18	95,632
SCHRIER, ROBERT W.....	RENAL AND ELECTROLYTE DISEASE.....	5T32 AM07135-02	29,293
VERNAKAKIS, ANTONIA O.....	DEVELOPMENTAL PHARMACOLOGY.....	1T32 HD07072-01	66,540
WALKER, STROTHER H.....	BIOMETRICS.....	5T01 GM02241-02	23,864
WALKER, STROTHER H.....	BIOMETRICS.....	5T01 GM02241-03	29,521
WEINER, NORMAN.....	INFLUENCE OF DRUGS ON REGULATORY MECHANISMS.....	5T01 GM01983-08	99,029
WHITLOCK, DAVID G.....	ANATOMY.....	3T01 GM01981-07S1	2,296
WHITLOCK, DAVID G.....	ANATOMY.....	5T01 GM01981-08	72,000
ORGANIZATION TOTAL 23	1,209,779		
<b>FORT COLLINS</b>			
COLORADO STATE UNIVERSITY ZIP CODE 80521			
BEDFORD, JOEL S.....	RADIATION BIOLOGY BASIC TO TUMOR THERAPY.....	1T32 CA09236-01	109,164
ORGANIZATION TOTAL 1	109,164		
STATE TOTAL 28	1,503,437		
<b>CONNECTICUT</b>			
<b>FARMINGTON</b>			
UNIVERSITY OF CONNECTICUT HEALTH CENTER ZIP CODE 06032			
BECKER, ELMER L.....	BASIC IMMUNOLOGY AND IMMUNOLOGIC CELL INJURY.....	5T01 A100438-05	64,741
BURSTONE, CHARLES J.....	BIOENGINEERING AND ORTHODONTICS.....	5T22 DE00136-03	40,000
COHEN, STANLEY.....	IMMUNOPATHOLOGY OF NEOPLASTIC DISEASES.....	1T32 CA09205-01	59,616
GAY, THOMAS.....	CRANIOFACIAL ANOMALIES.....	5T22 DE00202-03	89,174
KEGELES, S STEPHEN.....	PAIN CONTROL AND HUMAN MOTIVATION.....	1T32 DE07004-01	37,248
WARD, PETER A.....	PATHOGENESIS OF INFLAMMATORY LUNG DISEASES.....	1T32 HL07202-01	59,031
WEINSTEIN, SAM.....	BIOENGINEERING AND ORTHODONTICS.....	1T32 DE07047-01	55,410
ORGANIZATION TOTAL 7	405,220		
<b>NEW HAVEN</b>			
YALE UNIVERSITY ZIP CODE 06520			
ADELBERG, EDWARD A.....	MICROBIOLOGY.....	3T01 GM00275-16S1	1,836
ADELBERG, EDWARD A.....	MICROBIOLOGY.....	5T01 GM00275-17	7,432
BARNETT, RUSSELL J.....	CELL BIOLOGY.....	5T01 GM00105-17	77,984
BERTINO, JOSEPH R.....	ONCOLOGY AND PHARMACOLOGY.....	5T01 CA05138-15	124,114
BERTINO, JOSEPH R.....	MEDICAL ONCOLOGY, HEMATOLOGY, AND PHARMACOLOGY.....	1T32 CA09200-01	111,005
BLACK, FRANCIS L.....	CENTRAL NERVOUS SYSTEM-VIROLOGICAL INFECTIONS.....	5T32 NS07036-02	82,978
CHANDLER, WILLIAM K.....	NEUROPHYSIOLOGY.....	5T01 NS05477-12	77,619
COHEN, LAWRENCE B.....	PHYSIOLOGY.....	5T01 GM01113-14	72,175
COHEN, MELVIN J.....	NEUROBIOLOGY.....	5T01 NS05768-03	62,730
COOPER, JACK R.....	GENERAL PHARMACOLOGY.....	5T32 GM07324-02	60,982
FELIG, PHILIP.....	METABOLIC DISEASES AND DIABETES.....	5T32 AM07058-02	38,922

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>CONNECTICUT—Con.</b>			
FISCHER, JAMES J.....	CANCER—RADIOTHERAPY.....	5T01 CA05094-15	89,223
GALL, JOSEPH G.....	CELL AND DEVELOPMENTAL BIOLOGY.....	5T01 HD00032-13	272,174
GERSHON, RICHARD K.....	INTERDISCIPLINARY IMMUNOLOGY.....	1T32 AI07019-01	75,419
GLASER, GILBERT H.....	NEUROLOGY.....	5T01 NS05030-22	45,145
HSIUNG, GUEN-DJEN G.....	CLINICAL VIROLOGY.....	1T32 AI07018-01	37,060
HUTCHINSON, FRANKLIN.....	MOLECULAR BIOPHYSICS AND BIOCHEMISTRY.....	3T01 GM00711-18S1	20,299
HUTCHINSON, FRANKLIN.....	MOLECULAR BIOPHYSICS AND BIOCHEMISTRY.....	5T01 GM00711-19	223,130
HUTCHINSON, FRANKLIN.....	CELLULAR AND MOLECULAR BIOLOGY.....	5T32 GM07223-02	228,795
JAMIESON, JAMES D.....	MEDICAL SCIENTIST.....	5T05 GM02044-07	162,787
JAMIESON, JAMES D.....	MEDICAL SCIENTIST.....	5T32 GM07205-02	129,191
KANTOR, FRED S.....	ALLERGY AND IMMUNOLOGY.....	5T01 AI00271-11	77,440
KIER, E LEON.....	NEURORADIOLOGY.....	5T01 NS05646-08	21,772
LERNER, AARON B.....	DERMATOLOGY.....	5T32 AM07016-02	29,293
MALAWISTA, STEPHEN E.....	INVESTIGATIVE RHEUMATOLOGY.....	1T32 AM07107-01A1	9,764
MARCHESI, VINCENT T.....	PATHOLOGY OF MEMBRANES.....	5T22 GM00167-03	19,199
MC COLLUM, ROBERT W.....	EPIDEMIOLOGY.....	5T01 GM00005-20	144,062
PRUSOFF, WILLIAM H.....	BIOCHEMICAL ASPECTS OF CANCER CHEMOTHERAPY.....	5T32 CA09085-02	118,427
RITCHIE, J MURDOCH.....	NEUROPHARMACOLOGY.....	5T01 NS05706-05	57,988
ROOT, RICHARD K.....	INFECTIOUS DISEASES MICROBIAL AND IMMUNE MECHANISMS.....	1T32 AI07033-01	79,509
ROSENBERG, LEON E.....	PHARMACOLOGY.....	5T22 GM00077-03	56,604
ROSENBERG, LEON E.....	MEDICAL GENETICS—MOLECULAR AND CLINICAL.....	5T01 HD00198-10	33,478
RUDDLE, FRANK H.....	GENETICS.....	3T01 GM02299-02S1	7,481
RUDDLE, FRANK H.....	GENETICS.....	5T01 GM02299-03	186,846
STOLWIJK, JAN A.....	ENVIRONMENTAL HEALTH SCIENCES.....	5T01 ES00123-08	101,183
TOMITA, TSUNEO.....	VISUAL SCIENCES.....	5T32 EY07000-02	131,364
WARSHAW, JOSEPH B.....	RESEARCH PEDIATRICS.....	5T01 HD00177-10	113,772
WEISSMAN, SHERMAN M.....	MOLECULAR AND ONCOLOGIC VIROLOGY.....	5T32 CA09159-02	127,675
WHITE, COLIN.....	BIOMETRY.....	5T01 GM00047-21	73,543
ORGANIZATION TOTAL	39	3,390,400	
<b>STORRS</b>			
<b>UNIVERSITY OF CONNECTICUT ZIP CODE 06268</b>			
MATTINGLY, IGNATIUS G.....	LANGUAGE AND PSYCHOLOGY.....	5T01 HD00321-04	90,024
ORGANIZATION TOTAL	1	90,024	
STATE TOTAL	47	3,885,644	
<b>DIST OF COL</b>			
<b>WASHINGTON</b>			
<b>GEORGE WASHINGTON UNIVERSITY ZIP CODE 20006</b>			
ARMALY, MANSOUR F.....	OPHTHALMOLOGY.....	5T01 EY00047-10	7,245
ORGANIZATION TOTAL	1	7,245	
<b>GEORGETOWN UNIVERSITY ZIP CODE 20007</b>			
BELLANTI, JOSEPH A.....	DEVELOPMENTAL IMMUNOLOGY.....	5T01 HD00261-08	77,570
LILLENFIELD, LAWRENCE S.....	CARDIOVASCULAR PHYSIOLOGY.....	5T01 HL05527-14	69,829
SAZ, ARTHUR K.....	MICROBIOLOGY, VIROLOGY, MOLECULAR BIOLOGY, IMMUNOLOGY.....	5T01 AI00298-11	79,679
ORGANIZATION TOTAL	3	227,078	
<b>HOWARD UNIVERSITY ZIP CODE 20001</b>			
PAYSEUR, G STEPHON.....	OPHTHALMOLOGY.....	5T01 EY00057-12	47,832
ORGANIZATION TOTAL	1	47,832	
STATE TOTAL	5	282,155	



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>FLORIDA</b>			
<b>GAINESVILLE</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—UNIVERSITY OF FLORIDA      ZIP CODE 32611</b>			
AYOUB, ELIA M .....	INFECTIOUS DISEASES AND CLINICAL IMMUNOLOGY .....	5T01 AI00341-09	94,792
CONTI, RICHARD C .....	MEDICAL CARDIOLOGY .....	5T01 HL05784-09	92,387
EITZMAN, DONALD V .....	GROWTH AND DEVELOPMENTAL PHYSIOLOGY .....	5T01 HD00054-15	67,054
ENNEKING, WILLIAM F .....	INVESTIGATIVE MUSCULOSKELETAL PATHOLOGY .....	5T32 AM07141-02	19,529
GESSNER, IRA H .....	PEDIATRIC CARDIOLOGY .....	5T01 HL05774-09	43,408
GREER, MELVIN .....	NEUROLOGY .....	5T01 NS05281-17	85,922
JAEGER, MARC J .....	RESPIRATORY PHYSIOLOGY .....	5T01 HL05979-04	81,220
KAUFMAN, HERBERT E .....	OPHTHALMOLOGY .....	5T32 EY07012-02	42,941
MC GUIGAN, JAMES E .....	GASTROENTEROLOGY .....	5T01 AM05664-06	21,861
MOHAMMED, M HAMD .....	RESTORATIVE BIOMATERIALS RESEARCH .....	1T32 DE07045-01	16,407
MOORE, PAUL .....	COMMUNICATION SCIENCES—SPEECH PATHOLOGY .....	5T01 NS05475-12	81,697
MORELAND, ALVIN F .....	LABORATORY ANIMAL COMPARATIVE MEDICINE .....	3T32 RR07001-01S1	46,300
RENNERT, OWEN M .....	GENETICS, ENDOCRINOLOGY AND METABOLISM .....	1T32 AM07164-01	9,210
SCHIMPF, ROBERT D .....	NEUROPATHOLOGY .....	5T01 NS05744-05	44,778
SMITH, RICHARD T .....	CELL BIOLOGY AND IMMUNOBIOLOGY OF CANCER .....	5T32 CA09126-02	86,252
ORGANIZATION TOTAL      15	833,758		
<b>MIAMI</b>			
<b>UNIVERSITY OF MIAMI      ZIP CODE 33152</b>			
ANDERSON, DOUGLAS R .....	OPHTHALMOLOGY .....	5T32 EY07021-02	78,707
BASSETT, ARTHUR L .....	CARDIOVASCULAR PHARMACOLOGY .....	1T32 HL07188-01	53,001
BLANK, HARVEY .....	DERMATOLOGY .....	5T32 AM07081-02	37,873
BRICKER, NEAL S .....	NEPHROLOGY .....	1T32 AM07205-01	9,765
JACOBSON, MARCUS .....	DEVELOPMENTAL NEUROSCIENCES .....	5T32 NS07044-02	129,888
WHELAN, WILLIAM J .....	MOLECULAR ENZYMOLOGY .....	5T01 GM02011-08	8,368
YUNIS, ADEL A .....	INTERNAL MEDICINE—HEMATOLOGY .....	5T32 AM07114-02	15,534
ORGANIZATION TOTAL      7	333,136		
<b>MIAMI BEACH</b>			
<b>MOUNT SINAI MEDICAL CENTER      ZIP CODE 33140</b>			
SACKNER, MARVIN A .....	PULMONARY MEDICINE .....	5T01 HL05980-03	47,520
ORGANIZATION TOTAL      1	47,520		
<b>TALLAHASSEE</b>			
<b>STATE UNIVERSITY OF FLORIDA SYSTEM—FLORIDA STATE UNIVERSITY      ZIP CODE 32306</b>			
BEIDLER, LLOYD M .....	SENSORY PHYSIOLOGY .....	5T01 NS05258-18	49,367
BEIDLER, LLOYD M .....	SENSORY PHYSIOLOGY AND BIOPHYSICS .....	5T32 NS07010-02	77,252
LEYSIEFFER, FREDERICK W .....	ENVIRONMENTAL HEALTH .....	5T32 ES07011-02	162,996
ORGANIZATION TOTAL      3	289,615		
STATE TOTAL      26	1,504,029		
<b>GEORGIA</b>			
<b>ATHENS</b>			
<b>UNIVERSITY SYSTEM OF GEORGIA—UNIVERSITY OF GEORGIA      ZIP CODE 30601</b>			
GILES, NORMAN H .....	GENETICS .....	5T32 GM07103-02	64,903
MC GHEE, R BARCLAY .....	COMPARATIVE PARASITOLOGY AND MEDICAL ENTOMOLOGY .....	5T01 AI00315-09	53,948

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>GEORGIA—Con.</b>				
PAYNE, WILLIAM J.		MICROBIOLOGY	5T01 GM01968-08	17,270
ORGANIZATION TOTAL	3	136,121		
<b>ATLANTA</b>				
<b>EMORY UNIVERSITY      ZIP CODE 30322</b>				
FREDERICKSON, EVAN L.		ANESTHESIOLOGY	5T01 GM01508-11	38,355
KARP, HERBERT R.		CLINICAL NEUROLOGY	5T01 NS05071-19	65,855
KOSTYO, JACK L.		PHYSIOLOGY	5T01 GM02156-06	10,830
MORAN, NEIL C.		PHARMACOLOGY	5T01 GM00179-18	82,324
PRUITT, ALBERT		CLINICAL PHARMACOLOGY	5T01 GM01543-15	54,000
SHULMAN, JONAS A.		BACTERIOLOGY AND MYCOLOGY	5T01 AI00447-05	62,314
ZEILER, MICHAEL D.		EXPERIMENTAL PSYCHOLOGY	5T01 HD00208-08	77,272
ORGANIZATION TOTAL	7	390,950		
<b>UNIVERSITY SYSTEM OF GEORGIA—GEORGIA INSTITUTE OF TECHNOLOGY      ZIP CODE 30332</b>				
HOCHMAN, ROBERT F.		DENTAL MATERIALS SCIENCE	5T01 DE00127-14	9,588
HOCHMAN, ROBERT F.		DENTAL MATERIALS SCIENCE	1T32 DE07053-01	58,192
SLAMECKA, VLADIMIR		BIOMEDICAL INFORMATION SCIENCE	1T15 LM07014-01	121,335
ORGANIZATION TOTAL	3	189,115		
<b>AUGUSTA</b>				
<b>UNIVERSITY SYSTEM OF GEORGIA—MEDICAL COLLEGE OF GEORGIA      ZIP CODE 30902</b>				
MAHESH, VIRENDRA B.		ENDOCRINE AND POPULATION ASPECTS OF REPRODUCTIVE BIOLOGY	5T01 HD00112-09	82,379
ORGANIZATION TOTAL	1	82,379		
STATE TOTAL	14	798,565		
<b>HAWAII</b>				
<b>HONOLULU</b>				
<b>UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA      ZIP CODE 96822</b>				
HUNT, JOHN A.		HUMAN GENETICS	5T01 HD00400-03	54,996
ORGANIZATION TOTAL	1	54,996		
STATE TOTAL	1	54,996		
<b>ILLINOIS</b>				
<b>CARBONDALE</b>				
<b>SOUTHERN ILLINOIS UNIVERSITY      ZIP CODE 62901</b>				
SHECHMEISTER, ISAAC I.		MICROBIOLOGY	5T01 DE00144-13	16,779
ORGANIZATION TOTAL	1	16,779		
<b>CHICAGO</b>				
<b>INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH      ZIP CODE 60611</b>				
FRECHETTE, ARTHUR R.		SENIOR FOREIGN DENTAL SCIENTIST PROGRAM	5T01 DE00197-08	50,328
ORGANIZATION TOTAL	1	50,328		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>ILLINOIS—Con.</b>			
<b>NORTHWESTERN UNIVERSITY      ZIP CODE 60611</b>			
BRUNNER, EDWARD A.	ANESTHESIOLOGY	5T01 GM01693-10	13,800
FREINKEL, NORBERT	METABOLOGY	1T32 AM07169-01	15,239
GRAYHACK, JOHN T.	UROLOGY	5T01 AM05543-10	21,492
GREENER, EVAN H.	DENTAL MATERIALS SCIENCE	5T01 DE00125-14	50,750
GREENER, EVAN H.	DENTAL MATERIALS SCIENCE	1T32 DE07042-01	66,694
OKITA, GEORGE T.	PHARMACOLOGY	5T01 GM00162-18	45,044
OKITA, GEORGE T.	PHARMACOLOGY	5T32 GM07263-02	41,604
PATTERSON, ROY	ALLERGY AND IMMUNOLOGY	5T22 AI00013-03	25,321
SLADE, HUTTON D.	MICROBIOLOGY	3T01 GM00724-15S1	6,804
STAMLER, JEREMIAH	CARDIOVASCULAR EPIDEMIOLOGY, BIOSTATISTICS, NUTRITION	5T32 HL07113-02	124,280
ORGANIZATION TOTAL	10	411,028	
<b>RUSH-PRESBYTERIAN-ST. LUKE'S MEDICAL CENTER      ZIP CODE 60612</b>			
TROBAUGH, FRANK E. JR.	HEMATOLOGY	5T01 HL06021-03	61,814
ORGANIZATION TOTAL	1	61,814	
<b>UNIVERSITY OF CHICAGO      ZIP CODE 60637</b>			
BOGUE, DONALD J.	SOCIAL SCIENCE ASPECTS OF FERTILITY AND FAMILY PLANNING	5T01 HD00276-07	108,610
DE GROOT, LESLIE J.	INTEGRATED CLINICAL AND BASIC ENDOCRINOLOGY	5T32 AM07011-02	25,719
DORFMAN, ALBERT	GROWTH AND DEVELOPMENT	5T32 HD07009-02	122,134
EPSTEIN, WOLFGANG	GENETICS AND REGULATION	5T32 GM07197-02	112,214
FITCH, FRANK W.	IMMUNOLOGY	5T01 AI00452-05	85,308
FOZZARD, HARRY A.	MEDICAL CARDIOLOGY	5T01 HL05673-11	215,030
GETZ, GODFREY S.	PATHOBIOLOGY	5T32 GM07190-02	108,021
GOLDBERG, LEON I.	CLINICAL THERAPEUTICS	5T32 GM07019-02	52,216
HASELKORN, ROBERT	BIOPHYSICAL SCIENCES	5T01 GM00780-19	169,277
HELLER, ALFRED	PHARMACOLOGICAL SCIENCES	5T32 GM07151-02	103,430
HUTTENLOCHER, PETER R.	NEUROLOGY	5T01 NS05033-23	49,620
JENSEN, ELWOOD V.	EXPERIMENTAL ONCOLOGY	5T32 CA09183-02	111,413
KIEFF, ELLIOTT D.	INFECTIOUS DISEASES	5T01 AI00449-05	54,421
KIRSTEN, WERNER H.	EXPERIMENTAL AND ACADEMIC PATHOLOGY	5T01 GM00093-19	87,036
MC NEILL, DAVID	DEVELOPMENTAL PSYCHOLINGUISTICS	5T01 HD00419-03	50,483
POKORNY, JOEL M.	ASSESSMENT OF COLOR VISION IN NORMAL/DISEASED EYES	5T32 EY07010-02	32,252
ROIZMAN, BERNARD	VENEREAL DISEASES	5T22 AI00184-03	46,081
ROIZMAN, BERNARD	VIROLOGY	5T01 AI00238-13	101,486
ROSENBERG, IRWIN H.	DIGESTIVE DISEASES	5T32 AM07074-02	19,528
SINGER, RONALD	ANATOMY	5T01 GM00094-18	94,669
STARKEY, DUCAN	DEVELOPMENTAL PSYCHOLINGUISTICS	3T01 HD00419-02S1	3,483
STRAUSS, BERNARD S.	GENETICS	3T01 GM00090-18S1	3,562
STRAUSS, BERNARD S.	GENETICS	5T01 GM00090-19	104,715
STRAUSS, BERNARD S.	MICROBIOLOGY	3T01 GM00603-15S1	420
STRAUSS, BERNARD S.	MICROBIOLOGY	5T01 GM00603-16	13,936
SWIFT, HEWSON H.	BASIC CYTOLOGY	5T01 HD00174-10	136,276
TAYLOR, EDWIN W.	MOLECULAR AND CELLULAR BIOLOGY	5T32 GM07183-02	218,366
TOSTESON, DANIEL C.	MEDICAL SCIENTIST	5T05 GM01939-09	192,012
TOSTESON, DANIEL C.	MEDICAL SCIENTIST	5T32 GM07281-02	339,016
WILSON, HUGH	THEORETICAL BIOLOGY	5T01 GM02037-08	127,368
WISSLER, ROBERT W.	CARDIOVASCULAR PATHOPHYSIOLOGY AND BIOCHEMISTRY	1T32 HL07237-01	62,457
YACHNIN, STANLEY	HEMATOLOGY/ONCOLOGY	5T32 AM07134-02	58,586
ORGANIZATION TOTAL	32	3,009,145	
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER      ZIP CODE 60612</b>			
DRAY, SHELTON	MOLECULAR AND CELLULAR ONCOLOGY	5T01 CA05291-03	101,815
GOLDBERG, MORTON F.	OPHTHALMOLOGY	3T01 EY00024-18S1	6,171
GOLDBERG, MORTON F.	OPHTHALMOLOGY	5T01 EY00024-19	52,891
JACKSON, GEORGE G.	INFECTIOUS DISEASES	5T01 AI00208-15	139,045
MYHUS, LLOYD M.	ACADEMIC SURGERY	5T01 GM01930-08	79,920

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>ILLINOIS—Con.</b>				
ROSEN, KENNETH M.....		CARDIOLOGY.....	5T01 HL05879-07	115,388
SCHULMAN, MARTIN P.....		PHARMACOLOGY.....	3T01 GM00081-17S1	3,351
SCHULMAN, MARTIN P.....		PHARMACOLOGY.....	5T01 GM00081-18	14,677
SCHULMAN, MARTIN P.....		PHARMACOLOGICAL SCIENCES.....	5T32 GM07115-02	28,620
WATERHOUSE, JOHN P.....		PATHOLOGY/BIOCHEMISTRY OF SOFT TISSUE DESTRUCTION.....	5T22 DE00179-03	36,937
ORGANIZATION TOTAL	10	578,815		
<b>EVANSTON</b>				
<b>NORTHWESTERN UNIVERSITY</b>		<b>ZIP CODE 60281</b>		
JACOBS, JOHN E.....		BIOMEDICAL ENGINEERING.....	5T01 GM00874-15	129,192
SHEMIN, DAVID.....		BIOCHEMISTRY.....	3T01 GM00626-15S1	15,004
SHEMIN, DAVID.....		CELLULAR AND MOLECULAR BIOLOGY.....	5T32 GM07291-02	69,019
ORGANIZATION TOTAL	3	213,215		
<b>MAYWOOD</b>				
<b>LOYOLA UNIVERSITY MEDICAL CENTER</b>		<b>ZIP CODE 60153</b>		
KARCZMAR, ALEXANDER G.....		PHARMACOLOGY.....	3T01 GM00077-15S1	8,582
KARCZMAR, ALEXANDER G.....		PHARMACOLOGY.....	5T01 GM00077-16	9,395
MC DONALD, HUGH J.....		CLINICAL CHEMISTRY.....	5T01 GM02122-02	86,663
MC DONALD, HUGH J.....		CLINICAL CHEMISTRY.....	5T01 GM02122-03	69,830
RANDALL, WALTER C.....		PHYSIOLOGY.....	3T01 GM00999-13S1	1,954
TOBIN, JOHN R.....		CARDIOVASCULAR DISEASES.....	5T01 HL05971-04	99,356
TOTO, PATRICK D.....		CLINICAL CANCER-DENTAL.....	5T12 CA08012-11	12,590
ORGANIZATION TOTAL	7	288,370		
<b>URBANA</b>				
<b>UNIVERSITY OF ILLINOIS SYSTEM—UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN</b>		<b>ZIP CODE 61801</b>		
ARNTZEN, CHARLES J.....		CELL BIOLOGY.....	5T01 GM00941-13	53,188
COHEN, LESLIE B.....		NORMAL AND RETARDED DEVELOPMENT.....	5T01 HD00244-08	112,131
DAVIS, CARL L.....		NUTRITION.....	5T01 GM00653-16	65,055
DE MOSS, RALPH D.....		MICROBIOLOGY.....	3T01 GM00510-16S1	15,326
DUCOFF, HOWARD S.....		RADIATION BIOPHYSICS & BIOENGINEERING IN ONCOLOGY.....	5T32 CA09067-02	89,687
DUNN, FLOYD.....		BIOENGINEERING.....	5T01 GM02271-02	38,987
DUNN, FLOYD.....		BIOENGINEERING.....	5T01 GM02271-03	35,403
DZIUK, PHILIP J.....		REPRODUCTIVE BIOLOGY.....	1T32 HD07028-01A1	83,594
EBREY, THOMAS G.....		PHYSIOLOGY AND BIOCHEMISTRY OF VISION.....	5T32 EY07005-02	45,729
EBREY, THOMAS G.....		BIOPHYSICS.....	3T01 GM00720-16S1	6,016
FRIEDMAN, STANLEY.....		PHYSIOLOGY AND TOXICOLOGY OF INSECTS.....	5T01 GM01076-14	45,132
FRIEDMAN, STANLEY.....		COLLABORATIVE PROGRAMS IN PHARMACOLOGY AND TOXICOLOGY.....	5T32 GM07110-02	16,280
HAGER, LOWELL P.....		BIOCHEMISTRY.....	3T01 GM00321-16S1	12,717
HAGER, LOWELL P.....		BIOCHEMISTRY.....	5T01 GM00321-17	9,169
HAGER, LOWELL P.....		CELLULAR AND MOLECULAR BIOLOGY.....	5T32 GM07283-02	343,635
METCALF, ROBERT L.....		ENVIRONMENTAL STUDIES.....	5T32 ES07001-02	90,332
NALBANDOV, ANDREW V.....		ENDOCRINOLOGY AND PHYSIOLOGY OF REPRODUCTION.....	5T01 HD00181-10	46,826
WILLIS, JOHN S.....		SYSTEMS AND INTEGRATIVE BIOLOGY.....	5T32 GM07143-02	71,852
ORGANIZATION TOTAL	18	1,181,059		
STATE TOTAL	83	5,810,553		



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>INDIANA</b>			
<b>BLOOMINGTON</b>			
<b>INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT BLOOMINGTON      ZIP CODE 47401</b>			
FRASER, W DEAN .....	MICROBIOLOGY .....	3T01 GM00503-16S1	5,290
GURD, FRANK R .....	BIOCHEMISTRY .....	5T01 GM01046-15	76,253
PUTNAM, FRANK W .....	MOLECULAR AND CELLULAR BIOLOGY .....	5T32 GM07227-02	101,589
RANDALL, JAMES E .....	PHYSIOLOGY .....	5T01 GM02099-06	9,983
RHOADES, MARCUS M .....	GENETICS .....	3T01 GM00082-17S1	6,496
RHOADES, MARCUS M .....	GENETICS .....	5T01 GM00082-18	109,234
ORGANIZATION TOTAL      6	308,845		
<b>INDIANAPOLIS</b>			
<b>INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS      ZIP CODE 46202</b>			
BAEHNER, ROBERT L .....	IMMUNOLOGIC AND MORPHOLOGIC STUDY OF PHAGOCYTES .....	1T32 AM07193-01	19,932
BIXLER, DAVID .....	ORAL-FACIAL GENETICS .....	5T22 DE00007-03	73,089
BIXLER, DAVID .....	ORAL-FACIAL GENETICS .....	1T32 DE07043-01	72,445
DALY, WALTER J .....	CARDIOPULMONARY AND CARDIOVASCULAR MEDICINE .....	5T01 HL05363-16	88,755
FISCH, CHARLES .....	CARDIOVASCULAR MEDICINE .....	1T32 HL07182-01	78,707
FORNEY, ROBERT B .....	TOXICOLOGY .....	5T01 GM01089-13	17,056
FORNEY, ROBERT B .....	TOXICOLOGY .....	5T32 GM07097-02	33,071
MERRITT, A DONALD .....	MEDICAL GENETICS .....	5T22 GM00008-03	30,382
MERRITT, A DONALD .....	MEDICAL GENETICS .....	5T01 GM01056-14	84,264
MULLER, JANS .....	NEUROPATHOLOGY .....	5T01 NS05450-13	23,550
PALMER, CATHERINE G .....	DENTAL GENETICS .....	5T01 DE00119-14	59,703
SAWYER, WILLIAM D .....	VENEREAL DISEASE .....	5T22 AI00030-03	66,789
ORGANIZATION TOTAL      12	647,743		
<b>NOTRE DAME</b>			
<b>UNIVERSITY OF NOTRE DAME      ZIP CODE 46556</b>			
BORKOWSKI, JOHN G .....	MENTAL RETARDATION .....	5T01 HD00329-03	51,726
POLLARD, MORRIS .....	TUMOR BIOLOGY IN GERM-FREE ANIMALS .....	5T32 CA09021-02	15,876
WEINSTEIN, PAUL P .....	EXPERIMENTAL PARASITOLOGY AND VECTOR BIOLOGY .....	1T32 AI07030-01	77,775
ORGANIZATION TOTAL      3	145,377		
<b>WEST LAFAYETTE</b>			
<b>PURDUE UNIVERSITY      ZIP CODE 47907</b>			
ALTMAN, JOSEPH .....	RETARDATION OF NEURAL AND BEHAVIORAL DEVELOPMENT .....	5T01 HD00427-03	91,131
CHRISTIAN, JOHN E .....	ENVIRONMENTAL TOXICOLOGY .....	5T01 ES00071-10	167,939
MIYA, TOM S .....	PHARMACOLOGY AND TOXICOLOGY .....	5T32 GM07095-02	53,416
PAK, WILLIAM L .....	VISUAL PHYSIOLOGY AND CHEMISTRY .....	5T32 EY07008-02	57,112
PAK, WILLIAM L .....	BIOPHYSICS .....	5T01 GM00779-18	578
TESSMAN, IRWIN .....	MOLECULAR MECHANISMS OF CELL FUNCTIONS .....	5T32 GM07211-02	98,583
UMBARGER, H EDWIN .....	CELL BIOLOGY .....	5T01 GM01392-12	9,376
UMBARGER, H EDWIN .....	REGULATION OF GENE EXPRESSION .....	5T32 GM07076-02	47,770
ORGANIZATION TOTAL      8	525,905		
STATE TOTAL      29	1,627,870		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
IOWA			
IOWA CITY			
UNIVERSITY OF IOWA	ZIP CODE 52242		
ABBOUD, FRANCOIS M.	CARDIOVASCULAR DISEASES	5T32 HL07007-02	86,548
ABBOUD, FRANCOIS M.	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES	5T32 HL07121-02	153,271
BERG, JOHN W.	CANCER EPIDEMIOLOGY	5T32 CA09000-02	18,098
BERG, JOHN W.	CANCER EPIDEMIOLOGY	5T32 CA09027-02	12,425
CHALKLEY, ROGER	MOLECULAR BIOLOGY OF TUMOR CELLS	5T32 CA09119-02	115,397
CHRISTENSEN, JAMES	GASTROENTEROLOGY	5T32 AM07072-02	5,272
CONWAY, THOMAS W.	GENETICS	5T32 GM07091-02	42,520
FELLOWS, ROBERT E.	NEUROBIOLOGY	5T01 NS05748-05	54,414
GRANNER, DARYL K.	DIABETES AND ENDOCRINOLOGY	5T32 AM07018-02	19,473
KESSEL, RICHARD G.	DEVELOPMENTAL BIOLOGY	5T01 HD00152-11	41,501
LONG, JOHN P.	PHARMACOLOGY	5T01 GM00141-19	29,380
LONG, JOHN P.	PHARMACOLOGICAL SCIENCES	5T32 GM07069-02	104,303
MACKENZIE, IAN	BASIC RESEARCH IN PERIODONTOLOGY	1T32 DE07007-01	37,151
MENNINGER, JOHN R.	CELLULAR AND MOLECULAR BIOLOGY	5T32 GM07228-02	91,772
OSBORNE, JAMES W.	BIOMEDICAL RADIOLOGY	5T32 CA09125-02	66,275
PONSETI, IGNACIO V.	OSTEOARTHRITIS	5T32 AM07075-02	7,828
ROBERTS, ROBERT J.	CLINICAL PHARMACOLOGY	5T32 GM07013-02	36,248
VESTLING, CARL S.	BIOCHEMISTRY	3T01 GM00550-15S1	5,581
WILLIAMS, TERENCE H.	ANATOMICAL SCIENCES	5T01 GM00148-18	29,970
ORGANIZATION TOTAL	19	957,427	
STATE TOTAL	19	957,427	
KANSAS			
KANSAS CITY			
UNIVERSITY OF KANSAS	ZIP CODE 66103		
GRANTHAM, JARED J.	IN VITRO STUDIES OF ISOLATED KIDNEY TUBULE PHYSIOLOGY	5T32 AM07065-02	19,493
RUTH, WILLIAM E.	PULMONARY MEDICINE	5T01 HL05991-03	32,186
SCARPELLI, DANTE G.	PATHOLOGY	5T01 GM01783-10	13,432
WALASZEK, EDWARD J.	PHARMACOLOGICAL SCIENCES	5T32 GM07044-02	46,709
ORGANIZATION TOTAL	4	111,820	
LAWRENCE			
UNIVERSITY OF KANSAS	ZIP CODE 66045		
GIRARDEAU, FREDERIC L.	MENTAL RETARDATION AND OTHER DEVELOPMENTAL DISABILITIES	1T32 HD07066-01	149,998
HOROWITZ, FRANCES D.	DEVELOPMENT AND CHILD PSYCHOLOGY	5T01 HD00247-08	70,266
MITSCHER, LESTER A.	MEDICINAL CHEMISTRY	5T01 GM01341-11	124,689
PARETSKY, DAVID	MICROBIOLOGY	3T01 GM00703-15S1	2,744
STERNSON, LARRY A.	CLINICAL DRUG ANALYSIS OF ANTICANCER AGENTS	1T32 CA09242-01	46,228
ORGANIZATION TOTAL	5	393,925	
MANHATTAN			
KANSAS STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE	ZIP CODE 66506		
PITTINGER, THAD H.	CELLULAR AND DEVELOPMENTAL BIOLOGY	5T01 HD00422-03	95,220
ORGANIZATION TOTAL	1	95,220	
STATE TOTAL	10	600,965	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>KENTUCKY</b>				
<b>LEXINGTON</b>				
<b>UNIVERSITY OF KENTUCKY</b>		<b>ZIP CODE 40506</b>		
MARUYAMA, YOSH.....		RADIATION ONCOLOGY.....	1T32 CA09040-01	34,915
SURAWICZ, BORYS.....		MEDICAL CARDIOLOGY.....	5T01 HL05598-12	76,380
ORGANIZATION TOTAL	2	111,295		
STATE TOTAL	2	111,295		
<b>LOUISIANA</b>				
<b>COVINGTON</b>				
<b>TULANE UNIVERSITY</b>		<b>ZIP CODE 70433</b>		
ROBERTS, JAMES A.....		UROLOGY.....	1T32 AM07212-01	9,018
ORGANIZATION TOTAL	1	9,018		
<b>NEW ORLEANS</b>				
<b>LOUISIANA STATE UNIVERSITY SYSTEM—LOUISIANA STATE UNIVERSITY MEDICAL CENTER AT NEW ORLEANS</b>		<b>ZIP CODE 70119</b>		
SPITZER, JOHN J.....		METABOLIC AND MICROBIAL STUDIES IN TRAUMA AND BURNS.....	5T32 GM07029-02	39,057
SPITZER, JOHN J.....		CARDIOVASCULAR DYNAMICS AND METABOLISM.....	5T32 HL07098-02	107,042
ORGANIZATION TOTAL	2	146,099		
<b>TULANE UNIVERSITY</b>		<b>ZIP CODE 70118</b>		
FISHER, JAMES W.....		PHARMACOLOGICAL SCIENCES.....	5T32 GM07177-02	62,711
FISHER, JAMES W.....		HEMATOPHARMACOLOGY.....	5T01 HL05969-04	138,890
FRIEDMAN, LORRAINE.....		MEDICAL MYCOLOGY.....	5T01 AI00003-18	49,908
KREMENTZ, EDWARD T.....		SURGICAL ONCOLOGY.....	5T01 CA05108-15	57,943
ORIHIEL, THOMAS C.....		PARASITOLOGY AND MEDICAL ENTOMOLOGY.....	5T01 AI00002-16	69,605
YATES, ROBERT D.....		ANATOMY.....	5T01 GM00793-16	17,968
ZISKIND, MORTON M.....		CLINICAL PULMONARY PHYSIOLOGY AND PULMONARY DISEASES.....	5T01 HL05839-08	99,177
ORGANIZATION TOTAL	7	496,202		
STATE TOTAL	10	651,319		
<b>MAINE</b>				
<b>BAR HARBOR</b>				
<b>JACKSON LABORATORY</b>		<b>ZIP CODE 04809</b>		
WHITTEN, WESLEY K.....		REPRODUCTIVE PHYSIOLOGY.....	5T01 HD00395-04	7,426
ORGANIZATION TOTAL	1	7,426		
STATE TOTAL	1	7,426		
<b>MARYLAND</b>				
<b>BALTIMORE</b>				
<b>JOHNS HOPKINS UNIVERSITY</b>		<b>ZIP CODE 21218</b>		
AUGUST, J THOMAS.....		PHARMACOLOGY.....	5T01 GM01183-13	80,160

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>MARYLAND—Con.</b>			
BALL, WILMOT C. JR.	PULMONARY DISEASES AND PHYSIOLOGY	5T01 HL05885-06	82,836
BANG, FREDERIK B.	PARASITOLOGY AND MEDICAL ENTOMOLOGY	5T01 AI00020-19	83,243
BEER, MICHAEL	CELLULAR AND MOLECULAR BIOPHYSICS	5T32 GM07231-02	152,778
BOYER, SAMUEL H.	MEDICAL GENETICS	5T22 GM00145-02	61,399
BOYER, SAMUEL H.	MEDICAL GENETICS	5T22 GM00145-03	49,407
CONLEY, C. LOCKARD	HEMATOLOGY	5T32 HL07143-02	117,948
GANN, DONALD S.	HORMONAL AND CARDIOVASCULAR RESPONSE TO INJURY	5T32 GM07031-02	37,853
GANN, DONALD S.	BIOMEDICAL ENGINEERING	5T32 GM07057-02	51,920
GORDIS, LEON	CARDIOVASCULAR EPIDEMIOLOGY	5T32 HL07024-02	96,059
GREEN, LAWRENCE W.	BEHAVIORAL RESEARCH IN CARDIOVASCULAR RISK REDUCTION	1T32 HL07180-01	49,290
GURTNER, GAIL H.	PULMONARY MEDICINE	5T17 HL07137-02	52,373
GURTNER, GAIL H.	PULMONARY DISEASES	1T32 HL07199-01	252,220
HARRINGTON, WILLIAM F.	CHEMICAL BIOLOGY	5T01 GM00057-19	244,088
HENDRIX, THOMAS R.	DIGESTIVE DISEASES	1T32 AM07192-01	18,317
HUANG, RU-CHIH C.	CELL BIOLOGY	5T01 AG00027-06	91,629
JOHNSON, RICHARD T.	NEUROVIROLOGY	5T32 NS07000-02	112,717
KIDD, B. S. LANGFORD	PEDIATRIC CARDIOLOGY	5T01 HL06005-03	118,344
LENNARZ, WILLIAM J.	BIOCHEMISTRY	3T01 GM00184-17S1	9,936
LENNARZ, WILLIAM J.	BIOCHEMISTRY	5T01 GM00184-18	170,576
LIETMAN, PAUL S.	CLINICAL PHARMACOLOGY	5T22 GM00182-03	62,167
LILIENTHAL, ABRAHAM M.	CANCER EPIDEMIOLOGY	5T32 CA09002-02	95,194
MARGOLIS, SIMEON	ENDOCRINOLOGY, DIABETES AND METABOLOGY	5T32 AM07109-02	7,537
MAUMENESE, A. EDWARD	OPHTHALMOLOGY	5T01 EY00025-18	112,709
MIGEON, CLAUDE J.	PEDIATRIC ENDOCRINOLOGY AND METABOLISM	5T32 AM07116-02	19,475
MOUNTCASTLE, VERNON B.	NEUROPHYSIOLOGY—CENTRAL AND CELLULAR	5T01 NS05235-19	832
NATHANS, DANIEL	VIRAL CARCINOGENESIS	5T32 CA09139-02	95,897
NATHANSON, NEAL	NEUROVIROLOGY	1T32 NS07077-01	37,282
NORMAN, PHILIP S.	BASIC AND CLINICAL IMMUNOLOGY	1T32 AI07056-01	120,517
RILEY, RICHARD L.	CARDIOPULMONARY AND BEHAVIORAL PHYSIOLOGY	5T01 HL05453-16	129,225
RUBIN, RICHARD	BEHAVIORAL SCIENCES	5T01 GM02191-06	23,619
RUBIN, ROBERT J.	ENVIRONMENTAL TOXICOLOGY	5T01 ES00034-14	99,645
SACHS, MURRAY B.	AUDITORY PROCESSES	5T32 NS07049-02	61,395
SETO, DEXTER S.	INFECTIOUS DISEASES—PEDIATRIC	5T01 AI00461-04	73,536
STRANDBERG, JOHN D.	LABORATORY ANIMAL MEDICINE	3T01 RR05007-08S1	56,938
TALALAY, PAUL	MEDICAL SCIENTIST	5T32 GM07309-02	141,975
TALAMO, RICHARD C.	PEDIATRIC ALLERGY AND IMMUNOLOGY	5T32 AI07007-02	35,816
TS'0, PAUL O.	MOLECULAR/CELLULAR STUDIES OF CHEMICAL CARCINOGENESIS	5T32 CA09110-02	109,176
WALKER, W. GORDON	NUTRITIONAL AND METABOLIC ASPECTS OF RENAL DISEASE	5T32 AM07145-02	14,294
WEISFELD, MYRON L.	PATHOPHYSIOLOGY OF MYOCARDIAL DISEASES	1T32 HL07227-01	49,331
WHITE, ROBERT I. JR.	CARDIOVASCULAR RADIOLOGY	5T01 HL05970-04	59,529
ZUIDEMA, GEORGE D.	SURGERY	5T01 GM01541-11	75,865
ORGANIZATION TOTAL	42	3,415,047	
<b>MARYLAND MEDICAL-LEGAL FOUNDATION ZIP CODE 21201</b>			
FISHER, RUSSELL S.	FORENSIC PATHOLOGY AND TOXICOLOGY	5T01 GM01218-20	32,161
ORGANIZATION TOTAL	1	32,161	
<b>UNIVERSITY OF MARYLAND SYSTEM—UNIVERSITY OF MARYLAND AT BALTIMORE ZIP CODE 21201</b>			
BARRACLOUGH, CHARLES A.	PHYSIOLOGY	3T01 GM01075-13S1	7,065
BARRACLOUGH, CHARLES A.	REPRODUCTIVE ENDOCRINOLOGY	5T01 HD00435-03	67,851
SHAY, DONALD E.	DENTAL MICROBIOLOGY	5T01 DE00088-15	58,284
WISSEMAN, CHARLES L. JR.	VIROLOGY AND RICKETTSIOLOGY	5T01 AI00016-18	47,863
ORGANIZATION TOTAL	4	181,063	
STATE TOTAL	47	3,628,271	



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>MASSACHUSETTS</b>			
<b>AMHERST</b>			
UNIVERSITY OF MASSACHUSETTS SYSTEM—UNIVERSITY OF MASSACHUSETTS AT AMHERST		ZIP CODE 01002	
BLACK, DONALD L.....	MAMMALIAN REPRODUCTION.....	5T01 HD00204-08	48,936
HONIGBERG, BRONISLAW M.....	PARASITOLOGY AND MEDICAL ENTOMOLOGY.....	5T01 AI00226-14	56,401
ORGANIZATION TOTAL           2	105,337		
<b>BOSTON</b>			
AFFILIATED HOSPITALS CENTER—PETER BENT BRIGHAM HOSPITAL		ZIP CODE 02115	
COTRAN, RAMZI S.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	5T32 HL07066-02	82,582
INGRAM, ROLAND H, JR.....	RESPIRATORY MEDICINE.....	5T32 HL07010-02	82,257
TRIER, JERRY S.....	ALIMENTOLOGY.....	5T32 AM07121-02	20,160
WILLIAMS, GORDON H.....	HYPERTENSION.....	1T32 HL07236-01	81,073
ORGANIZATION TOTAL           4	266,072		
AFFILIATED HOSPITALS CENTER—ROBERT BRECK BRIGHAM HOSPITAL		ZIP CODE 02120	
AUSTEN, K FRANK.....	IMMUNOLOGIC BASIS OF RESISTANCE AND HYPERSENSITIVITY.....	5T01 AI00366-08	92,234
AUSTEN, K FRANK.....	MECHANISMS OF ARTHRITIC AND DERMATOLOGIC DISORDERS.....	5T32 AM07031-02	38,969
ORGANIZATION TOTAL           2	131,203		
BETH ISRAEL HOSPITAL		ZIP CODE 02215	
ABELMANN, WALTER H.....	MEDICAL CARDIOLOGY.....	5T01 HL05909-06	101,518
CRUMPACKER, CLYDE S, II.....	INFECTIOUS DISEASES.....	5T01 AI00350-10	99,644
FREIMAN, DAVID G.....	EXPERIMENTAL PATHOLOGY.....	5T01 GM00568-15	11,988
GLICKMAN, ROBERT M.....	GASTROENTEROLOGY.....	1T32 AM07183-01	19,529
ROBINSON, STEPHEN H.....	HEMATOLOGY.....	5T32 AM07026-02	30,491
SALZMAN, EDWIN W.....	CARDIOVASCULAR SURGERY.....	5T01 HL05422-17	39,447
SILEN, WILLIAM.....	ACADEMIC SURGERY.....	5T01 GM02019-08	92,785
ORGANIZATION TOTAL           7	395,402		
BOSTON BIOMEDICAL RESEARCH INSTITUTE		ZIP CODE 02114	
GERGELY, JOHN.....	ENERGY METABOLISM IN MUSCLE.....	5T01 HL05811-09	73,242
ORGANIZATION TOTAL           1	73,242		
BOSTON UNIVERSITY		ZIP CODE 02215	
BRODY, JEROME S.....	PULMONARY BIOCHEMISTRY AND CELL BIOLOGY.....	5T32 HL07035-02	125,592
COHEN, ALAN S.....	RHEUMATOLOGY.....	5T32 AM07014-02	39,057
EGDAHL, RICHARD H.....	ACADEMIC SURGERY.....	5T01 GM01498-11	128,004
FRANZBLAU, CARL.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	5T32 HL07052-02	48,059
GAENSLER, EDWARD A.....	RESPIRATORY DISEASE.....	5T01 HL05562-14	52,682
HOOD, WILLIAM B, JR.....	BASIC SCIENCE CARDIOVASCULOLOGY.....	1T32 HL07224-01	117,732
LEIBOWITZ, HOWARD M.....	OPHTHALMOLOGY.....	5T01 EY00042-11	56,800
LEVINSKY, NORMAN G.....	NEPHROLOGY.....	5T32 AM07053-02	31,293
MELBY, JAMES C.....	ENDOCRINE AND METABOLIC RESEARCH.....	1T32 AM07201-01	9,764
PETERS, ALAN.....	ANATOMY.....	5T01 GM01979-07	42,058
SINEX, F MAROTT.....	BIOCHEMISTRY OF AGING.....	5T01 AG00020-08	91,211
SMALL, DONALD M.....	LIPID BIOPHYSICS OF NORMAL AND PATHOLOGICAL MEMBRANES.....	5T22 GM00176-02	79,488
SMALL, DONALD M.....	LIPID BIOPHYSICS OF NORMAL AND PATHOLOGICAL MEMBRANES.....	5T22 GM00176-03	53,568
ORGANIZATION TOTAL           13	875,308		
CHILDREN'S HOSPITAL MEDICAL CENTER		ZIP CODE 02115	
NADAS, ALEXANDER S.....	PEDIATRIC CARDIOLOGY.....	5T01 HL05855-07	155,239
NATHAN, DAVID G.....	HEMATOLOGY.....	5T32 HL07146-02	96,187
SHELANSKI, MICHAEL L.....	DEVELOPMENTAL NEUROLOGY.....	5T32 NS07017-02	258,171
ORGANIZATION TOTAL           3	509,597		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>MASSACHUSETTS—Con.</b>			
<b>EYE RESEARCH INSTITUTE OF RETINA FOUNDATION ZIP CODE 02114</b>			
DOHLMAN, CLAES H.....	PHYSIOLOGY AND BIOCHEMISTRY OF CORNEAL DISEASE.....	5T32 EY07018-02	42,109
ORGANIZATION TOTAL 1	42,109		
<b>HARVARD UNIVERSITY ZIP CODE 02138</b>			
ABRAMS, HERBERT L.....	DIAGNOSTIC RADIOLOGY.....	5T01 GM01910-08	151,200
ABRAMS, HERBERT L.....	CLINICAL CARDIOVASCULAR RADIOLOGY.....	5T01 HL05832-08	67,392
BARLOW, CHARLES F.....	NEUROLOGY AND CHILD NEUROLOGY.....	5T01 NS05185-17	104,128
BECKWITH, JONATHAN R.....	GENE EXPRESSION REGULATION IN PROKARYOTES & EUKARYOTES.....	5T32 GM07196-02	44,114
BENACERRAF, BARUJ.....	IMMUNOLOGY.....	5T32 CA09130-02	96,716
BJARNGARD, BENGT E.....	MEDICAL RADIOLOGICAL PHYSICS.....	5T32 CA09088-02	70,096
BUCKLEY, HELEN R.....	MICROBIOLOGY-MEDICAL MYCOLOGY AND IMMUNOLOGY.....	5T01 AI00441-04	54,150
BUNN, H FRANKLIN.....	HEMATOLOGY.....	5T32 HL07142-02	62,433
COOMS, ALBERT H.....	IMMUNOLOGY.....	5T32 CA09141-02	53,226
ERBE, RICHARD W.....	GENETICS.....	5T01 GM02249-04	46,102
FISCHBACH, GERALD D.....	DEVELOPMENTAL NEUROBIOLOGY.....	5T32 NS07009-02	107,389
FISHER, CHARLES M.....	NEUROLOGY.....	5T01 NS05075-22	159,937
GERALD, PARK S.....	MEDICAL GENETICS.....	5T22 GM00156-02	47,519
GERALD, PARK S.....	MEDICAL GENETICS.....	5T22 GM00156-03	30,420
GESCHWIND, NORMAN.....	SENSORY PHYSIOLOGY AND BIOPHYSICS.....	5T32 NS07011-02	77,857
GEYER, ROBERT P.....	NUTRITION IN CARDIOVASCULAR DISEASES.....	5T32 HL07064-02	102,761
GOLDBERG, IRVING H.....	PHARMACOLOGICAL SCIENCES.....	5T32 GM07306-02	91,705
GOLDHABER, PAUL.....	PERIODONTOLOGY AND ORAL MEDICINE-CLINICAL.....	5T01 DE00111-12	152,488
GOLDHABER, PAUL.....	PERIODONTIA.....	5T32 DE07010-02	81,697
HUANG, ALICE S.....	VIRUS-HOST INTERACTIONS IN CANCER.....	5T32 CA09031-02	126,606
HUTCHISON, GEORGE B.....	CANCER EPIDEMIOLOGY.....	5T32 CA09001-02	48,645
JONES, T CARL.....	VETERINARY AND COMPARATIVE PATHOLOGY.....	5T32 RR07000-02	66,623
KARNOVSKY, MORRIS.....	CELLULAR AND DEVELOPMENTAL BIOLOGY.....	5T32 GM07226-02	140,805
LITTLE, JOHN B.....	RADIATION BIOLOGY.....	5T32 CA09078-02	160,050
LOWN, BERNARD.....	CLINICAL AND COMMUNITY CARDIOLOGY.....	5T01 HL05242-18	132,732
MEAD, JERE.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	5T32 HL07118-02	140,336
MOORREES, COENRAAD F.....	RESEARCH IN CRANIOFACIAL ANOMALIES.....	1T32 DE07008-01	63,403
MURRAY, EDWARD S.....	RICKETTSIOLOGY AND VIROLOGY.....	5T01 AI00014-18	85,119
PALAY, SANFORD L.....	NEUROANATOMY.....	5T01 NS05591-10	59,148
PERLMAN, ROBERT.....	PHYSIOLOGY.....	5T01 GM00919-15	37,182
POTTER, DAVID D.....	NEUROBIOLOGY.....	5T01 NS05731-05	48,625
SHKLAR, GERALD.....	ORAL CANCER-CLINICAL.....	5T12 CA08159-03	41,007
SMITH, THOMAS W.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	5T32 HL07049-02	159,113
SOLOMON, ARTHUR K.....	BIOPHYSICS.....	5T01 GM00782-18	134,219
SPEIZER, FRANK E.....	CLINICAL EPIDEMIOLOGY OF HEART AND LUNG DISEASE.....	5T01 HL05998-03	150,468
STARE, FREDERICK J.....	EXPERIMENTAL, MEDICAL, AND PUBLIC HEALTH NUTRITION.....	5T01 GM00333-17	100,000
SWARTZ, MORTON N.....	INFECTIOUS DISEASE AND BASIC MICROBIOLOGICAL MECHANISMS.....	1T32 AI07061-01	35,713
SWEENEY, EDWARD A.....	PEDIATRIC DENTISTRY-CLINICAL.....	5T01 DE00112-13	9,903
VALLEE, BERT L.....	MEDICAL SCIENTIST.....	5T05 GM02220-02	104,706
VALLEE, BERT L.....	MEDICAL SCIENTIST.....	5T05 GM02220-03	167,954
WELLER, THOMAS H.....	TROPICAL MEDICINE.....	5T01 AI00177-13	101,280
WIESEL, TORSTEN N.....	BASIC NEUROBIOLOGICAL SCIENCES.....	5T01 EY00082-05	109,382
WILSON, T HASTINGS.....	SYSTEMS AND INTEGRATIVE BIOLOGY.....	5T32 GM07258-02	21,814
ORGANIZATION TOTAL 43	3,846,163		
<b>MASSACHUSETTS EYE AND EAR INFIRMARY ZIP CODE 02114</b>			
DOHLMAN, CLAES H.....	OPHTHALMOLOGY.....	5T01 EY00089-03	125,774
ORGANIZATION TOTAL 1	125,774		
<b>MASSACHUSETTS GENERAL HOSPITAL ZIP CODE 02114</b>			
ALPERT, NATHANIEL M.....	RADIOLOGICAL PHYSICS.....	5T32 CA09076-02	71,812
BLOCH, KURT J.....	IMMUNOLOGY AND IMMUNOPATHOLOGY.....	1T32 AI07040-01	40,169
BURKE, JOHN F.....	RESEARCH IN BURNS AND TRAUMA.....	5T32 GM07035-02	55,360

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>MASSACHUSETTS—Con.</b>				
ERBE, RICHARD W.		DEVELOPMENTAL MEDICINE.....	1T32 HD07092-01	94,740
HABER, EDGAR		CARDIOLOGY—MULTIDISCIPLINARY.....	1T32 HL07208-01	78,345
ISSELBACHER, KURT J.		GASTROINTESTINAL DISEASE.....	1T32 AM07191-01	19,851
KITZ, RICHARD J.		ANESTHESIOLOGY.....	5T01 GM01273-13	105,961
LEVINE, BARRY W.		PULMONARY MEDICINE.....	5T01 HL05767-07	96,620
POTTS, JOHN T., JR.		ENDOCRINOLOGY AND METABOLISM.....	5T32 AM07028-02	58,421
RICHARDSON, EDWARD P., JR.		NEUROPATHOLOGY.....	1T32 NS07069-01	19,710
ROBBINS, LAURENCE L.		DIAGNOSTIC RADIOLOGY.....	5T01 GM01339-10	98,920
RUSSELL, PAUL S.		IMMUNOGENETICS, TRANSPLANTATION, AND TUMOR IMMUNOLOGY.....	1T32 AI07027-01	41,787
SWARTZ, MORTON N.		INFECTIOUS DISEASE AND IMMUNOLOGY.....	5T01 AI00215-15	91,181
TAVERAS, JUAN M.		NEURORADIOLOGY.....	5T01 NS05734-05	28,365
ORGANIZATION TOTAL	14	901,242		
<b>NEW ENGLAND MEDICAL CENTER HOSPITAL ZIP CODE 02111</b>				
COHEN, JORDAN J.		RENAL AND ELECTROLYTE PHYSIOLOGY.....	1T32 AM07078-01	19,529
FANBURG, BARRY L.		MULTIDISCIPLINARY RESPIRATORY DISEASES.....	5T32 HL07053-02	41,769
KAPLAN, MARSHALL M.		BIOCHEMISTRY AND IMMUNOLOGY OF DIGESTIVE DISEASES.....	1T32 AM07024-01A1	9,862
MECHELES, THOMAS F.		CHEMOTHERAPY OF CHILDHOOD MALIGNANCIES.....	5T32 CA09077-02	32,718
REICHLIN, SEYMOUR		CLINICAL AND BASIC NEUROENDOCRINOLOGY.....	5T32 AM07039-02	36,754
SCHWARTZ, BERNARD		VISUAL SCIENCES.....	5T01 EY00054-08	66,870
ORGANIZATION TOTAL	6	207,502		
<b>NORTHEASTERN UNIVERSITY ZIP CODE 02115</b>				
ARMINGTON, JOHN C.		CORRELATIVE METHODS FOR STUDING VISUAL FUNCTION.....	1T32 EY07036-01	38,947
ORGANIZATION TOTAL	1	38,947		
<b>SIDNEY FARBER CANCER INSTITUTE ZIP CODE 02115</b>				
FREI, EMIL, III		CANCER CHEMOTHERAPY.....	5T32 CA09172-02	208,764
ORGANIZATION TOTAL	1	208,764		
<b>ST. ELIZABETH'S HOSPITAL OF BOSTON ZIP CODE 02135</b>				
EDBE, SHIRLEY N.		HEMATOLOGY.....	5T01 HL05600-12	94,028
ORGANIZATION TOTAL	1	94,028		
<b>TUFTS UNIVERSITY ZIP CODE 02111</b>				
LESKOWITZ, SIDNEY		IMMUNOLOGIC ASPECTS OF DISEASE.....	5T01 AI00436-05	69,334
PARK, JAMES T.		MOLECULAR BIOLOGY OF BASIC CELL FUNCTIONS.....	5T32 GM07310-02	59,277
WALLACH, DONALD F.		MEMBRANE BIOLOGY AND MEMBRANE PATHOLOGY.....	5T32 GM07027-02	60,509
ORGANIZATION TOTAL	3	189,120		
<b>TUFTS-NEW ENGLAND MEDICAL CENTER ZIP CODE 02111</b>				
MUNZENRIDER, JOHN E.		RADIATION ONCOLOGY.....	5T32 CA09045-02	114,999
ORGANIZATION TOTAL	1	114,999		
<b>CAMBRIDGE</b>				
<b>HARVARD UNIVERSITY ZIP CODE 02138</b>				
BLOCH, KONRAD E.		CHEMISTRY.....	3T01 GM00700-15S1	10,622
DOWLING, JOHN E.		MULTIBIOLOGICAL SCIENCES.....	3T01 GM00036-18S1	27,810
DOWLING, JOHN E.		MULTIBIOLOGICAL SCIENCES.....	5T01 GM00036-19	142,677
GUIDOTTI, A GUIDO		BIOCHEMISTRY AND MOLECULAR BIOLOGY.....	3T01 GM00138-18S1	20,898
GUIDOTTI, A GUIDO		BIOCHEMISTRY AND MOLECULAR BIOLOGY.....	5T01 GM00138-19	194,603
JENKINS, FARISH A., JR.		BIOLOGY OF THE MUSCULOSKELETAL SYSTEM.....	5T32 GM07117-02	43,724
KAFATOS, FOTIS C.		DEVELOPMENTAL BIOLOGY.....	5T01 HD000415-05	130,411
ORGANIZATION TOTAL	7	570,745		
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY ZIP CODE 02139</b>				
BROWN, GENE M.		BIOLOGICAL SCIENCES.....	5T32 GM07287-02	407,575



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>MASSACHUSETTS—Con.</b>			
BUCHI, GEORGE H.....	CARCINOGENESIS AND DRUG DEVELOPMENT.....	5T32 CA09112-02	273,556
LETTVIN, JEROME Y.....	PHYSIOLOGY OF VISION.....	5T01 EY00090-03	87,963
LURIA, SALVADOR E.....	MICROBIOLOGY.....	3T01 GM00602-16S1	5,000
LURIA, SALVADOR E.....	MICROBIOLOGY.....	5T01 GM00602-17	10,294
MILLER, SANFORD A.....	ORAL SCIENCE, NUTRITION AND METABOLISM.....	5T22 DE00049-03	20,520
MILLER, SANFORD A.....	ORAL SCIENCE, BIOCHEMISTRY & METABOLISM.....	5T01 DE00105-14	139,927
MUNRO, HAMISH N.....	BASIC NUTRITION.....	5T32 AM07095-02	29,585
MUNRO, HAMISH N.....	NUTRITION.....	3T01 GM01337-10S1	5,292
PERMAN, SHELTON.....	MULTIDISCIPLINARY CELL BIOLOGY.....	3T01 GM00710-15S1	2,771
PERMAN, SHELTON.....	MULTIDISCIPLINARY CELL BIOLOGY.....	5T01 GM00710-16	32,069
ROBBINS, PHILLIPS W.....	BIOCHEMISTRY.....	3T01 GM00515-15S1	15,988
ROBBINS, PHILLIPS W.....	BIOCHEMISTRY.....	5T01 GM00515-16	15,046
SCRIMSHAW, KEVIN S.....	CLINICAL NUTRITION FOR PHYSICIANS.....	1T32 AM07070-01	26,207
SHAPIRO, ASCHER H.....	BIOMEDICAL ENGINEERING.....	3T01 GM02136-06S1	1,322
SHAPIRO, ASCHER H.....	BIOMEDICAL ENGINEERING.....	5T01 GM02136-07	68,604
SIEBERT, WILLIAM M.....	COMMUNICATIONS BIOENGINEERING.....	5T01 GM01555-10	13,840
SIEBERT, WILLIAM M.....	SYSTEM AND INTEGRATIVE BIOLOGY.....	5T32 GM07301-02	114,470
STEVENS, KENNETH M.....	SPEECH SCIENCES.....	5T32 NS07040-02	55,728
TEUBER, HANS-LUKAS.....	PSYCHOBIOLOGY.....	3T01 GM01064-14S1	7,533
TEUBER, HANS-LUKAS.....	PSYCHOBIOLOGY.....	5T01 GM01064-15	132,061
WAUGH, DAVID F.....	BIOPHYSICS.....	5T01 GM00778-20	124,520
WOGAN, GERALD N.....	ENVIRONMENTAL AND FOOD TOXICOLOGY.....	5T32 ES07020-02	144,157
ORGANIZATION TOTAL	23	1,734,028	
<b>WALTHAM</b>			
<b>BRANDEIS UNIVERSITY ZIP CODE 02154</b>			
DYBWAD, GUNNAR.....	MENTAL RETARDATION.....	5T01 HD00146-08	109,539
GIBBS, MARTIN.....	MICROBIOLOGY.....	5T01 GM01586-10	45,950
HALVORSON, HARLYN O.....	GENETIC AND BIOCHEMICAL MECHANISMS OF REGULATION.....	5T32 GM07122-02	55,362
LEVINE, LAWRENCE.....	BIOCHEMISTRY.....	3T01 GM00212-17S1	22,616
LEVINE, LAWRENCE.....	BIOCHEMISTRY.....	5T01 GM00212-18	172,448
ORGANIZATION TOTAL	5	405,915	
<b>EDWIN KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION ZIP CODE 02154</b>			
MILUNSKY, AUBREY.....	MEDICAL GENETICS.....	5T32 GM07015-02	51,300
ORGANIZATION TOTAL	1	51,300	
<b>WOODS HOLE</b>			
<b>MARINE BIOLOGICAL LABORATORY ZIP CODE 02543</b>			
PORTER, KEITH R.....	PHYSIOLOGY AND MOLECULAR BIOLOGY.....	5T01 GM00265-17	90,160
ORGANIZATION TOTAL	1	90,160	
STATE TOTAL	141	10,976,957	
<b>MICHIGAN</b>			
<b>ANN ARBOR</b>			
<b>UNIVERSITY OF MICHIGAN ZIP CODE 48104</b>			
ALPERN, MATHEW.....	VISION RESEARCH.....	3T32 EY07022-01S1	11,320
ALPERN, MATHEW.....	VISION RESEARCH.....	5T32 EY07022-02	77,652
EVERY, JAMES K.....	DENTISTRY.....	5T01 DE00013-19	69,315
BEIERWALTES, WILLIAM M.....	NUCLEAR MEDICINE.....	5T32 CA09015-02	83,003
BERNSTEIN, ISADORE A.....	ENVIRONMENTAL BIOLOGY: EPIDERMAL NEO- AND HYPERPLASIA.....	1T32 AM07236-01	9,764



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>MICHIGAN—Con.</b>				
BOLE, GILES G. JR.		ARTHRITIS RESEARCH SCIENTISTS	1T32 AM07080-01A1	9,662
BURCKHALTER, JOSEPH H.		MEDICINAL CHEMISTRY	5T01 GM02010-08	53,234
COHEN, BENNETT J.		LABORATORY ANIMAL SCIENCE	5T01 RR05001-14	69,128
COOMBS, CLYDE H.		MATHEMATICAL PSYCHOLOGY	5T01 GM01231-13	69,586
COON, MINOR J.		BIOCHEMISTRY	3T01 GM00187-17S1	39,678
COON, MINOR J.		BIOCHEMISTRY	5T01 GM00187-18	137,076
CRAIG, ROBERT G.		RESTORATIVE DENTAL MATERIALS	5T01 DE00181-11	55,904
CRAIG, ROBERT G.		RESTORATIVE DENTAL MATERIALS	1T32 DE07057-01	90,749
EDMONSON, GLENN V.		BIOMEDICAL ENGINEERING	3T01 GM01289-12S1	18,036
EDMONSON, GLENN V.		BIOMEDICAL ENGINEERING	5T01 GM01289-13	129,553
HAGEN, JOHN W.		DEVELOPMENTAL PSYCHOLOGY	5T01 HD00149-10	106,297
HAWKINS, JOSEPH E. JR.		PHYSIOLOGICAL ACOUSTICS	5T01 NS05679-06	17,129
HIGUCHI, WILLIAM I.		PHYSICAL PHARMACEUTICAL CHEMISTRY	5T01 DE00204-10	39,267
JACQUEZ, JOHN A.		PHYSIOLOGY	5T01 GM00353-17	16,360
JACQUEZ, JOHN A.		SYSTEMS AND INTEGRATIVE BIOLOGY	5T32 GM07106-02	92,761
LA DU, BERT		PHARMACOLOGY	5T01 GM00198-18	97,195
LEE, RONALD D.		ECONOMIC DEMOGRAPHY	1T32 HD07060-01	114,328
LEVINE, MYRON		MOLECULAR AND CELL BIOLOGY-HEALTH SCIENCES	5T32 GM07315-02	101,424
MIDGLEY, A REES		REPRODUCTIVE ENDOCRINOLOGY	5T32 HD07048-02	94,685
MOYERS, ROBERT E.		CRANIOFACIAL ANOMALIES	5T22 DE00193-03	33,547
NEEL, JAMES V.		GENETICS	5T01 GM00071-19	168,949
NEEL, JAMES V.		GENETICS	5T32 GM07123-02	76,039
NEIDHARDT, FREDERICK C.		MICROBIOLOGY	3T01 GM02204-05S1	4,860
NEIDHARDT, FREDERICK C.		MICROBIOLOGY	5T01 GM02204-06	10,069
RHODIN, JOHANNES A.		ANATOMICAL SCIENCES	3T01 GM00312-15S1	10,090
RHODIN, JOHANNES A.		ANATOMICAL SCIENCES	5T01 GM00312-16	31,660
SCHORK, MICHAEL A.		HEART AND VASCULAR DISEASES-BIOSTATISTICAL	1T32 HL07082-01A1	21,170
STRIFFLER, DAVID F.		ORAL EPIDEMIOLOGY	5T01 DE00287-08	34,483
ORGANIZATION TOTAL	33	1,993,973		
<b>DETROIT</b>				
WAYNE STATE UNIVERSITY	ZIP CODE 48202			
LERNER, A MARTIN		VIROLOGY AND INFECTIOUS DISEASES	5T01 AI00261-13	55,137
MARKS, BERNARD H.		PHARMACOLOGY	5T32 GM07176-02	29,494
ORGANIZATION TOTAL	2	84,631		
<b>EAST LANSING</b>				
MICHIGAN STATE UNIVERSITY	ZIP CODE 48823			
BARKER, ROBERT		BIOCHEMISTRY	3T01 GM01091-13S1	17,172
BARKER, ROBERT		BIOCHEMISTRY	5T01 GM01091-14	94,493
BRODY, THEODORE M.		PHARMACOLOGY	5T01 GM01761-10	62,270
JOHNSON, JOHN I. JR.		BIOPHYSICS	3T01 GM01422-11S1	325
MICHELAKIS, ANDREW M.		CLINICAL PHARMACOLOGY	5T32 GM07096-02	57,596
SADOFF, HAROLD L.		MICROBIOLOGY	5T01 GM01911-09	52,789
SCOTT, JERRY B.		CARDIOVASCULAR PHYSIOLOGY AND PATHOPHYSIOLOGY	5T01 HL05873-07	98,603
THOMAS, J W.		NUTRITION	5T01 GM01818-08	97,985
ORGANIZATION TOTAL	8	481,233		
STATE TOTAL	43	2,559,837		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>MINNESOTA</b>			
<b>MINNEAPOLIS</b>			
<b>UNIVERSITY OF MINNESOTA</b>	<b>ZIP CODE 55455</b>		
ACKERMAN, EUGENE.....	HEALTH COMPUTER SCIENCES.....	5T01 LM00160-03	118,273
BEVIS, RICHARD R.....	DENTISTRY.....	5T01 DE00005-16	22,341
BEVIS, RICHARD R.....	DENTISTRY—CLINICAL.....	5T01 DE00143-13	57,052
BLACKBURN, HENRY.....	PREVENTION OF CARDIOVASCULAR DISEASES.....	1T32 HL07036-01A1	41,600
CARPENTER, ANNA M.....	DIABETES RESEARCH.....	1T32 AM07196-01	41,905
COHM, JAY M.....	MULTIDISCIPLINARY CARDIOVASCULAR RESEARCH.....	1T32 HL07184-01	89,621
GOLD, LAWRENCE H.....	NEURORADIOLOGY.....	5T01 NS05422-11	10,577
GOLDBERG, NELSON D.....	CELL MEMBRANCE AND BIOLOGICAL CONTROL.....	5T22 GM00201-03	33,342
GOLTZ, ROBERT W.....	ACADEMIC DERMATOLOGY.....	1T32 AM07165-01	10,130
HARRIS, JOHN E.....	OPHTHALMOLOGY.....	5T01 EY00027-18	46,531
JACOB, HARRY S.....	HEMOGLOBIN AND CELL MEMBRANE RESEARCH.....	1T32 HL07062-01A1	62,860
KIELSBERG, MARCUS O.....	BIOMETRY OF CARDIOVASCULAR CLINICAL TRIALS.....	5T32 HL07023-02	35,304
KRIVIT, WILLIAM.....	HEMATOLOGY.....	5T32 HL07145-02	40,932
KROMENBERG, RICHARD S.....	MULTIDISCIPLINARY RESEARCH FELLOWSHIP AWARD.....	1T32 HL07009-01A1	19,677
LORBER, VICTOR.....	CARDIOVASCULAR PHYSIOLOGY.....	3T01 HL05138-19S1	500
LUCAS, RUSSELL V, JR.....	PEDIATRIC CARDIOLOGY—CLINICAL.....	5T01 HL05996-03	101,269
MAJARIAN, JOHN S.....	IMMUNOLOGY AND ITS RELATION TO SURGERY.....	5T32 CA09024-02	33,449
PICK, HERBERT L, JR.....	HUMAN LEARNING.....	5T01 HD00098-12	159,681
PLAGEMANN, PETER G.....	MICROBIOLOGY—CANCER.....	5T32 CA09138-02	120,917
POPPEL, RICHARD E.....	PHYSIOLOGY.....	5T01 GM00572-16	8,667
QUIE, PAUL G.....	PEDIATRIC INFECTIOUS DISEASES.....	1T32 AI07054-01	56,643
SCHACHTELE, CHARLES F.....	DENTISTRY.....	5T32 DE07014-02	136,507
SHIDEMAN, FREDERICK E.....	PHARMACOLOGY AND TOXICOLOGY.....	5T01 GM01117-14	212,344
SMITHBERG, MORRIS.....	ANATOMICAL SCIENCES.....	5T01 GM00114-19	27,971
VAN PILSUM, JOHN F.....	BIOCHEMISTRY.....	5T01 GM00157-17	7,068
VERNIER, ROBERT L.....	PEDIATRIC NEPHROLOGY.....	5T32 AM07087-02	20,505
WANNAMAKER, LEWIS W.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	5T32 HL07116-02	98,761
WATSON, DENNIS W.....	MICROBIOLOGY.....	3T01 GM00966-14S1	8,748
WATSON, DENNIS W.....	MICROBIOLOGY.....	5T01 GM00966-15	49,040
WEAVER, LAWRENCE C.....	PHARMACEUTICAL SCIENCE.....	3T01 GM02064-05S1	3,370
WILSON, IVAN D.....	DIGESTIVE AND LIVER DISEASES.....	1T32 AM07177-01	10,410
YUNIS, JORGE J.....	MEDICAL GENETICS.....	5T22 GM00025-03	49,950
ORGANIZATION TOTAL	32	1,735,945	
<b>ROCHESTER</b>			
<b>AMERICAN ACADEMY OF OPHTHALMOLOGY AND OTOLARYNGOLOGY</b>	<b>ZIP CODE 55901</b>		
ZIMMERMAN, LORENZ E.....	OPHTHALMIC PATHOLOGY.....	5T01 EY00032-15	80,000
ORGANIZATION TOTAL	1	80,000	
<b>WAYO FOUNDATION</b>	<b>ZIP CODE 55901</b>		
ARNAUD, CLAUDE D.....	ENDOCRINOLOGY AND METABOLISM.....	1T32 AM07147-01A1	9,764
DARLEY, FREDERIC L.....	SPEECH PATHOLOGY.....	5T01 NS05446-13	31,431
GLEICH, GERALD J.....	ALLERGIC DISEASES.....	1T32 AI07047-01	19,489
HYATT, ROBERT E.....	LUNG DISEASES.....	1T32 HL07222-01	37,430
KNOX, FRANKLYN G.....	KIDNEY DISEASES.....	5T32 AM07013-02	39,057
LAMBERT, EDWARD H.....	NEUROPHYSIOLOGY.....	5T01 NS05279-17	33,245
MANN, KENNETH G.....	BLOOD BANKING SCIENCES AND RELATING PROGRAMS.....	5T32 HL07069-02	53,950
MC DUFFIE, FREDERIC C.....	ARTHRITIS.....	5T32 AM07034-02	16,117
SUMMERSKILL, WILLIAM H.....	DIGESTIVE DISEASES—MULTIDISCIPLINARY.....	1T32 AM07198-01	19,529
TANCREDI, ROBERT G.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	5T32 HL07111-02	112,735
TOMASI, THOMAS B, JR.....	TUMOR IMMUNOLOGY.....	5T32 CA09127-02	119,811
WHISNANT, JACK P.....	ACADEMIC NEUROLOGY.....	5T01 NS05182-18	100,374
ORGANIZATION TOTAL	12	592,932	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>MINNESOTA—Con.</b>			
<b>SAINT PAUL</b>			
<b>UNITED HOSPITALS</b>	<b>ZIP CODE 55102</b>		
EDWARDS, JESSE E.....	CARDIOVASCULAR PATHOLOGY.....	5T01 HL05570-14	20,355
ORGANIZATION TOTAL	1 20,355		
<b>UNIVERSITY OF MINNESOTA</b>	<b>ZIP CODE 55455</b>		
BLOOMFIELD, VICTOR A.....	CHEMICAL BASES OF CELL AND MOLECULAR BIOLOGY.....	5T32 GM07323-02	108,041
FORRO, FREDERICK, JR.....	GENETICS AND CELL BIOLOGY.....	5T01 GM01156-14	96,981
FORRO, FREDERICK, JR.....	GENETIC MECHANISMS AND REGULATION.....	5T32 GM07094-02	24,187
TESTER, JOHN R.....	VERTEBRATE BEHAVIOR AND ECOLOGY.....	5T01 GM01779-10	102,095
WEBER, ALVIN F.....	VETERINARY ANATOMY.....	5T01 GM00386-17	37,141
WOLD, FINN.....	BIOPHYSICAL SCIENCE & GENERAL BIOCHEMISTRY.....	5T01 GM00345-17	9,152
ORGANIZATION TOTAL	6 377,597		
STATE TOTAL	52 2,806,829		
<b>MISSISSIPPI</b>			
<b>JACKSON</b>			
<b>UNIVERSITY OF MISSISSIPPI MEDICAL CENTER</b>	<b>ZIP CODE 39216</b>		
GUYTON, ARTHUR C.....	PHYSIOLOGY.....	5T01 GM00316-17	13,014
GUYTON, ARTHUR C.....	CARDIOVASCULAR PHYSIOLOGY.....	5T01 HL05184-18	84,274
ORGANIZATION TOTAL	2 97,288		
<b>UNIVERSITY</b>			
<b>UNIVERSITY OF MISSISSIPPI</b>	<b>ZIP CODE 38677</b>		
GILMORE, W. FRANKLIN.....	PHARMACEUTICAL SCIENCES.....	5T32 GM07099-02	39,351
ORGANIZATION TOTAL	1 39,351		
STATE TOTAL	3 136,639		
<b>MISSOURI</b>			
<b>COLUMBIA</b>			
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT COLUMBIA</b>	<b>ZIP CODE 65201</b>		
DAVIS, JAMES O.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	5T32 HL07094-02	82,912
LINDBERG, DONALD A.....	MEDICAL INFORMATION SCIENCE.....	1T15 LM07006-01	80,734
LINDBERG, DONALD A.....	MEDICAL INFORMATION SCIENCE.....	5T15 LM07006-02	160,391
MIDDLETON, CHARLES C.....	LABORATORY ANIMAL MEDICINE.....	3T01 RRO5006-08S1	43,512
MUSACCHIA, X J.....	CARDIOVASCULAR CONTROL IN ALTERED METABOLIC STATES.....	1T32 HL07187-01	32,548
ORGANIZATION TOTAL	5 400,097		
<b>KANSAS CITY</b>			
<b>UNIVERSITY OF MISSOURI SYSTEM—UNIVERSITY OF MISSOURI AT KANSAS CITY</b>	<b>ZIP CODE 64110</b>		
PETERSON, WARREN A.....	ADULT DEVELOPMENT AND AGING.....	5T01 AG00018-09	185,190
ORGANIZATION TOTAL	1 185,190		

**Table 3.—NIH Training Grants, by Area, Organization, and Program  
Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>MISSOURI—Con.</b>				
<b>SAINT LOUIS</b>				
<b>JEWISH HOSPITAL OF ST. LOUIS</b>		<b>ZIP CODE 63110</b>		
LUBOWITZ, HERBERT		CARDIOVASCULAR-COAGULATION PROBLEMS IN NEPHROLOGY	5T01 HL06008-03	69,625
OLIVER, G CHARLES		ACADEMIC CARDIOLOGY	5T01 HL06011-03	37,960
ORGANIZATION TOTAL	2	107,585		
<b>ST. LOUIS UNIVERSITY</b>		<b>ZIP CODE 63103</b>		
OLSON, ROBERT E		BIOCHEMISTRY	3T01 GM00446-16S1	15,876
OLSON, ROBERT E		MULTIDISCIPLINARY HEART AND VASCULAR DISEASES	5T32 HL07050-02	195,468
ORGANIZATION TOTAL	2	211,344		
<b>UNIVERSITY CITY</b>				
<b>WASHINGTON UNIVERSITY</b>		<b>ZIP CODE 63130</b>		
ALPERS, DAVID H		CLINIC/LABORATORY-ACADEMIC GASTROENTEROLOGY	5T32 AM07130-02	18,790
AVIOLI, LOUIS V		MINERAL AND SKELETAL METABOLISM	5T32 AM07033-02	27,962
BALLINGER, WALTER F, II		SURGERY	5T01 GM00371-16	76,802
BAUER, WALTER C		TUMOR BIOLOGY-MULTIRESOURCE PROGRAM	5T32 CA09118-02	204,600
BRADSHAW, RALPH A		BIOCHEMISTRY	3T01 GM01311-11S1	16,164
BRADSHAW, RALPH A		CELLULAR AND MOLECULAR BIOLOGY	5T32 GM07067-02	156,547
COWAN, W MAXWELL		VISION RESEARCH	5T01 EY00092-03	128,243
DAUGHADAY, WILLIAM H		DIABETES AND RELATED METABOLIC DISEASES	5T32 AM07120-02	16,866
DAVIE, JOSEPH M		IMMUNOLOGY AND MEMBRANES	5T32 GM07157-02	89,985
ELIASSON, SVEN G		BASIC NEUROLOGICAL SCIENCES	5T01 NS05378-15	43,102
GLASER, LUIS		MEDICAL SCIENTIST	5T05 GM02016-08	310,089
GLASER, LUIS		MEDICAL SCIENTIST	5T32 GM07200-02	156,780
GOLDRING, SIDNEY		NEUROLOGICAL SURGERY	5T01 NS05580-10	57,274
HUNT, CARLTON C		SENSORY PHYSIOLOGY AND BIOPHYSICS	1T32 NS07057-01	76,720
KLAHR, SAUL D		RENAL DISEASES	5T32 AM07126-02	13,648
KOBAYASHI, GEORGE S		FUNGAL DISEASES	1T32 AI07015-01	33,939
LACY, PAUL E		ENVIRONMENTAL PATHOBIOLOGY	5T01 ES00128-09	43,502
LACY, PAUL E		PATHOLOGY	5T01 GM00897-16	108,479
LOWRY, OLIVER H		BIOCHEMICAL PHARMACOLOGY	5T01 GM00096-18	47,609
MAJERUS, PHILIP W		HEMATOLOGY	5T32 HL07088-02	119,540
MEDOFF, GERALD		INFECTIOUS DISEASES	5T01 AI00459-03	43,623
OGURA, JOSEPH H		OTOLARYNGOLOGY	5T01 NS05190-18	94,658
PARKER, CHARLES W		ALLERGY AND IMMUNOLOGY	5T32 AI00112-02	61,128
PICKARD, WILLIAM F		ELECTRICAL ENGINEERING	5T01 GM01827-08	52,856
PRENSKY, ARTHUR L		DEVELOPMENTAL NEUROLOGY	5T32 NS07027-02	85,752
RASKAS, HESCHEL J		MOLECULAR VIROLOGY	5T32 CA09129-02	106,076
SANDEL, THOMAS T		BEHAVIORAL PHYSIOLOGY AND PSYCHOPHYSICS	5T01 GM01900-08	95,740
SHERMAN, LAURENCE A		BLOOD BANKING	5T32 HL07038-02	82,761
SLY, WILLIAM S		MEDICAL GENETICS	5T01 GM01511-10	72,157
SOBEL, BURTON E		MULTIDISCIPLINARY HEART AND VASCULAR DISEASES	5T32 HL07081-02	186,895
WIEST, WALTER G		REPRODUCTIVE BIOLOGY	5T01 HD00379-03	68,527
ORGANIZATION TOTAL	31	2,696,814		
STATE TOTAL	41	3,601,030		
<b>NEW HAMPSHIRE</b>				
<b>HANOVER</b>				
<b>DARTMOUTH COLLEGE</b>		<b>ZIP CODE 03755</b>		
TENNEY, STEPHEN M		CARDIORESPIRATORY PHYSIOLOGY	5T01 HL05322-16	96,516



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>NEW HAMPSHIRE—Con.</b>				
ORGANIZATION TOTAL	1	96,516		
STATE TOTAL	1	96,516		
<b>NEW JERSEY</b>				
<b>NEWARK</b>				
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY		ZIP CODE 07103		
REGAN, TIMOTHY J.		MEDICAL CARDIOLOGY	5T01 HL05510-14	79,906
ORGANIZATION TOTAL	1	79,906		
<b>NEW BRUNSWICK</b>				
RUTGERS UNIVERSITY		ZIP CODE 08903		
ABOU-SABE, MORAD A.		GENETICS	5T32 GM07129-02	55,589
ORGANIZATION TOTAL	1	55,589		
<b>PISCATAWAY</b>				
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY—RUTGERS MEDICAL SCHOOL		ZIP CODE 08854		
SCHLESINGER, R. WALTER		VIRAL AND CELLULAR GENOME FUNCTIONS IN CANCER	5T32 CA09069-02	151,677
ORGANIZATION TOTAL	1	151,677		
<b>PRINCETON</b>				
PRINCETON UNIVERSITY		ZIP CODE 08540		
BONNER, JOHN T.		PHYSIOLOGY	3T01 GM00457-15S1	6,156
BONNER, JOHN T.		PHYSIOLOGY	5T01 GM00457-16	9,157
BONNER, JOHN T.		CELLULAR AND MOLECULAR BIOLOGY	5T32 GM07312-02	124,302
BONNER, JOHN T.		REPRODUCTION AND POPULATION	3T01 HD00348-04S1	11,502
BONNER, JOHN T.		REPRODUCTION AND POPULATION	5T01 HD00348-05	102,504
COALE, ANSLEY J.		DEMOGRAPHY	5T01 HD00110-09	60,295
FRESCO, JACQUES R.		BIOCHEMISTRY	3T01 GM00962-14S1	10,692
FRESCO, JACQUES R.		BIOCHEMISTRY	5T01 GM00962-15	78,912
LEVINE, ARNOLD J.		CANCER	5T32 CA09167-02	379,499
WEVER, ERNEST G.		SENSORY PSYCHOLOGY	5T01 NS05308-17	27,822
ORGANIZATION TOTAL	10	810,841		
STATE TOTAL	13	1,098,013		
<b>NEW MEXICO</b>				
<b>ALBUQUERQUE</b>				
UNIVERSITY OF NEW MEXICO		ZIP CODE 87131		
WILLIAMS, RALPH C. JR.		IMMUNE MECHANISMS IN THE CONNECTIVE TISSUE DISEASES	1T32 AM07173-01	12,151
ORGANIZATION TOTAL	1	12,151		
STATE TOTAL	1	12,151		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK</b>			
<b>ALBANY</b>			
<b>NEW YORK STATE DEPARTMENT OF HEALTH ZIP CODE 12237</b>			
DODDS, W. JEAN.....	COMPARATIVE HEMOSTASIS.....	1T32 HL07173-01	19,993
ORGANIZATION TOTAL 1	19,993		
<b>UNION COLLEGE AND UNIVERSITY SYSTEM—ALBANY MEDICAL COLLEGE ZIP CODE 12208</b>			
COULSTON, FREDERICK.....	COMPARATIVE ENVIRONMENTAL TOXICOLOGY.....	5T01 ES00103-10	27,354
LEE, KYU T.....	CARDIOVASCULAR DISEASE RESEARCH.....	1T32 HL07194-01	75,447
REINECKE, ROBERT D.....	ACADEMIC OPHTHALMOLOGY.....	1T32 EY07037-01	50,873
SABA, THOMAS M.....	TRAUMATOLOGY.....	5T32 GM07033-02	73,776
THOMAS, WILBUR A.....	EXPERIMENTAL PATHOLOGY.....	3T01 GM00477-15S1	1,801
ORGANIZATION TOTAL 5	229,251		
<b>BUFFALO</b>			
<b>NEW YORK STATE DEPARTMENT OF HEALTH—ROSWELL PARK MEMORIAL INSTITUTE ZIP CODE 14263</b>			
GRAHAM, SAXON.....	MEDICAL SOCIOLOGY, EPIDEMIOLOGY AND CANCER CONTROL.....	5T32 CA09051-02	49,896
HIGBY, DONALD J.....	CANCER CHEMOTHERAPY.....	5T32 CA09108-02	76,369
HOLYOKE, EDWARD D.....	SURGICAL ONCOLOGY.....	5T01 CA05270-03	42,532
MIHICH, ENRICO.....	DRUG DEVELOPMENT AND CANCER THERAPEUTICS.....	5T32 CA09072-02	65,057
MIRAND, EDWIN A.....	CANCER.....	5T01 CA05016-20	86,035
PAIGEN, KENNETH.....	MAMMALIAN BIOCHEMICAL GENETICS.....	5T32 GM07093-02	32,341
ORGANIZATION TOTAL 6	346,230		
<b>STATE UNIVERSITY OF NEW YORK AT BUFFALO ZIP CODE 14214</b>			
CHAUDHRY, ANAND P.....	EXPERIMENTAL PATHOLOGY.....	5T22 DE00141-03	32,257
CHAUDHRY, ANAND P.....	EXPERIMENTAL PATHOLOGY.....	5T01 DE00223-08	71,120
GENCO, ROBERT J.....	IMMUNOLOGY AND PERIODONTOLOGY.....	5T22 DE00173-03	160,893
GENCO, ROBERT J.....	PERIODONTAL DISEASES.....	5T32 DE07034-02	224,029
MILGROM, FELIX.....	IMMUNOLOGY.....	5T01 AI00442-05	77,423
MURRAY, DANIEL.....	PHARMACEUTICAL SCIENCES.....	5T01 GM00555-14	19,008
MURRAY, DANIEL.....	PHARMACOLOGICAL SCIENCES.....	5T32 GM07145-02	69,363
NOELL, WERNER K.....	EYE PHYSIOLOGY AND BIOCHEMISTRY.....	5T32 EY07019-02	105,673
RENNIE, DONALD W.....	PHYSIOLOGY.....	5T01 GM00341-17	14,249
SCHWARTZ, MICHAEL A.....	PHARMACEUTICAL SCIENCES.....	3T01 GM00555-13S1	6,739
SOLO, ALAN J.....	DEVELOPMENT OF ANTICANCER DRUGS.....	5T32 CA09166-02	90,779
ZELEN, MARVIN.....	BIOMETRY AND CANCER.....	1T32 CA09170-01	37,323
ZOBEL, RICHARD C.....	BIOPHYSICS.....	5T01 GM00718-17	9,491
ORGANIZATION TOTAL 13	918,347		
<b>ITHACA</b>			
<b>CORNELL UNIVERSITY ZIP CODE 14850</b>			
EDELSTEIN, STUART J.....	BIOCHEMISTRY.....	3T01 GM00824-14S1	14,904
EDELSTEIN, STUART J.....	BIOCHEMISTRY.....	5T01 GM00824-15	103,435
EDELSTEIN, STUART J.....	CELLULAR AND MOLECULAR BIOLOGY.....	5T32 GM07273-02	68,885
FEDERER, WALTER T.....	BIOMETRY, STATISTICS & PROBABILITY.....	3T01 GM00392-16S1	5,305
FINK, GERALD R.....	GENETICS.....	5T01 GM01035-14	59,664
GIBSON, ELEANOR J.....	COGNITIVE DEVELOPMENT IN EARLY CHILDHOOD.....	3T01 HD00381-05S1	1,249
HAMMES, GORDON G.....	MOLECULAR BIOPHYSICS.....	5T01 GM00834-15	187,254
MELTZER, LEO.....	SOCIAL PSYCHOLOGY AND PERSONALITY.....	5T01 GM01941-08	94,572
NESHEIM, WALDEN C.....	NUTRITION.....	1T32 AM07158-01	14,131
POND, WILSON G.....	NUTRITION.....	3T01 GM01221-12S1	17,880
POND, WILSON G.....	NUTRITION.....	5T01 GM01221-13	133,744
SMITH, ROBERT J.....	ANTHROPOLOGY.....	5T01 GM01256-13	11,552
STYCOS, J. MAYONE.....	POPULATION.....	5T01 HD00191-10	104,067

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>				
WASSERMAN, ROBERT H.		PHYSICAL PRINCIPLES IN BIOLOGICAL RESEARCH	5T01 DE00090-15	19,619
WILKINSON, CHRISTOPHER F.		ENVIRONMENTAL TOXICOLOGY	5T01 ES00098-10	63,148
ORGANIZATION TOTAL	15	899,409		
<b>NEW YORK</b>				
<b>CITY UNIVERSITY OF NEW YORK—GRADUATE SCHOOL AND UNIVERSITY CENTER</b>		<b>ZIP CODE 10036</b>		
GLICK, JOSEPH A.		HUMAN DEVELOPMENT	5T01 HD00231-08	84,495
ORGANIZATION TOTAL	1	84,495		
<b>CITY UNIVERSITY OF NEW YORK—MOUNT SINAI SCHOOL OF MEDICINE</b>		<b>ZIP CODE 10029</b>		
BEATTIE, DIANA S.		PATHOBIOLOGY OF MEMBRANES AND THEIR FUNCTIONS	5T32 GM07036-02	50,432
FERRY, ANDREW P.		MULTIDISCIPLINARY EYE DISEASES	5T32 EY07014-02	73,271
HIRSCHHORN, KURT		MEDICAL GENETICS	5T22 GM00020-03	20,258
HIRSCHHORN, KURT		HUMAN GENETICS	5T01 HD00210-10	92,660
HODES, HORACE L.		INFECTIOUS DISEASES/HOST IMMUNE DEFENSES	5T01 AI00445-05	25,814
HOLLAND, JAMES F.		CHEMOTHERAPY AND CHEMOIMMUNOTHERAPY	5T32 CA09102-02	108,948
KILBOURNE, EDWIN D.		MEDICAL MICROBIOLOGY AND IMMUNOLOGY	5T01 AI00439-03	63,504
MITTAG, THOMAS W.		BIOMEDICAL SCIENCES—PHARMACOLOGY	5T32 GM07163-02	46,291
ROSENFELD, RICHARD E.		HEMATOLOGY	5T01 HL05488-14	56,034
RUBIN, EMANUEL		EXPERIMENTAL PATHOLOGY	5T01 GM00115-18	32,940
SAFIR, ARAM		COMPUTERS AND MEDICINE	1T15 LM07008-01	113,340
SAFIR, ARAM		COMPUTERS AND MEDICINE	5T15 LM07008-02	172,514
STEIGMAN, ALEX J.		PEDIATRICS	5T01 HD00243-07	27,669
ORGANIZATION TOTAL	13	883,675		
<b>COLUMBIA UNIVERSITY</b>		<b>ZIP CODE 10027</b>		
BALAZS, ENDRE A.		OPHTHALMOLOGY	5T32 EY07002-02	92,328
BEHRMAN, RICHARD E.		PERINATAL MEDICINE AND RESEARCH	5T32 HD07017-02	118,206
BEYCHOK, SHERMAN		CELLULAR AND DEVELOPMENTAL BIOLOGY	3T01 GM02087-05S1	9,379
BEYCHOK, SHERMAN		CELLULAR AND MOLECULAR BIOLOGY	5T32 GM07216-02	118,079
BIGGER, JOHN T. JR.		CARDIOVASCULOGY	5T01 HL05864-08	120,474
BRASEL, JO ANNE		GROWTH AND DEVELOPMENT	5T32 HD07000-02	113,245
BUTLER, VINCENT P. JR.		CLINICAL IMMUNOLOGY	5T01 AI00440-05	40,189
CALDWELL, PETER R. B.		MECHANISMS OF LUNG INJURY AND RESPIRATORY FAILURE	5T32 HL07018-02	55,480
CARPENTER, MALCOLM B.		NEUROANATOMY	5T01 NS05242-18	37,667
CHIEN, SHU		RHEOLOGY IN CARDIOVASCULAR DISEASES	5T32 HL07114-02	91,605
GERSHON, MICHAEL D.		NEUROBIOLOGY	1T32 NS07062-01	78,487
GERSONY, WELTON M.		PEDIATRIC CARDIOLOGY	3T01 HL05389-15S1	863
GREENBAUM, LOWELL M.		MEDICAL SCIENTIST	5T05 GM02042-08	146,696
GREENBAUM, LOWELL M.		PHARMACOLOGICAL SCIENCES	5T32 GM07182-02	102,312
HARBER, LEONARD C.		PHOTOBIOLOGIC & ENVIRONMENTAL FACTORS IN SKIN DISEASE	1T32 AM07171-01	9,395
HILAL, SADEK		NEURORADIOLOGY	5T01 NS05298-17	72,219
JAGIELLO, GEORGIANA M.		GENETIC AND HORMONE CONTROL OF GAMETOGENESIS	1T32 HD07093-01	52,963
KING, DONALD W.		PATHOLOGY AND PATHOBIOLOGY	3T01 GM02050-07S1	3,340
KING, DONALD W.		PATHOLOGY AND PATHOBIOLOGY	5T01 GM02050-08	104,966
KING, DONALD W.		PATHOBIOLOGY	5T32 GM07161-02	96,903
KROOTH, ROBERT S.		MEDICAL GENETICS	5T22 GM00142-03	62,624
KROOTH, ROBERT S.		GENETICS, DEVELOPMENT AND NUTRITION	5T32 GM07088-02	80,727
LEVINTHAL, CYRUS		BIOPHYSICS	3T01 GM02012-07S1	5,940
LIEBERMAN, SEYMOUR		BIOCHEMISTRY OF REPRODUCTIVE ENDOCRINOLOGY	1T32 HD07061-01	31,317
MELLINS, ROBERT B.		PEDIATRIC PULMONARY DISEASE	5T01 HL06012-03	108,216
NOBACK, CHARLES R.		ANATOMICAL SCIENCES	5T01 GM00256-15	52,439
RIFKIND, RICHARD A.		HEMATOLOGY	5T32 HL07148-02	115,142
ROSSI, HARALD H.		RADIATION BIOPHYSICS	5T32 CA09053-02	5,461
SCHACHTER, DAVID		PHYSIOLOGY	5T01 GM00257-18	28,246
SRINIVASAN, P. R.		BIOCHEMISTRY	5T01 GM00255-18	16,520
STEIN, ZENA A.		EPIDEMIOLOGY OF MENTAL RETARDATION RESEARCH	1T32 HD07040-01	149,473

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>				
WINICK, MYRON		NUTRITION	5T01 AM05168-19	46,686
WINTERS, ROBERT W.		PEDIATRIC NEPHROLOGY, ALLIED FIELDS & RENAL IMMUNOLOGY	5T01 HD00440-03	107,433
ORGANIZATION TOTAL	33	2,275,020		
<b>COMMUNITY BLOOD COUNCIL OF GREATER NEW YORK ZIP CODE 10021</b>				
HIRSCH, ROBERT L.		HEMATOLOGY	5T01 HL06000-03	106,488
ORGANIZATION TOTAL	1	106,488		
<b>CORNELL UNIVERSITY MEDICAL CENTER ZIP CODE 10021</b>				
BEARN, ALEXANDER G.		BIOMEDICAL SCIENCES	5T05 GM02243-02	44,195
BEARN, ALEXANDER G.		BIOMEDICAL SCIENCES	5T05 GM02243-03	91,886
BRISCOE, WILLIAM A.		PULMONARY DISEASES	1T32 HL07233-01	38,800
BROOKS, DANA C.		ANATOMICAL SCIENCES	3T01 GM00895-16S1	2,916
BROOKS, DANA C.		ANATOMICAL SCIENCES	5T01 GM00895-17	21,211
ELLIS, JOHN T.		PATHOLOGY	5T01 GM00078-18	43,738
GREIF, ROGER L.		PHYSIOLOGY	5T01 GM01737-08	33,796
HARSANYI, ZSOLT		GENETICS	5T01 GM01918-08	61,148
JAVITT, NORMAN B.		GASTROENTEROLOGY	5T32 AM07142-02	12,433
LEWY, JOHN E.		DEVELOPMENTAL NEPHROLOGY	5T01 HD00383-03	52,235
MEISTER, ALTON		BIOCHEMISTRY	3T01 GM01803-07S1	3,923
NACHMAN, RALPH L.		HEMATOLOGY	5T32 HL07029-02	75,748
ROBERTS, RICHARD B.		INFECTIOUS DISEASES	5T01 AI00465-03	48,335
SOS, THOMAS A.		CARDIOVASCULAR RADIOLOGY	5T01 HL05966-04	23,384
WINDHAGER, ERICH E.		RENAL FUNCTION IN HEALTH AND DISEASE	1T32 AM07152-01	9,765
ORGANIZATION TOTAL	15	563,513		
<b>HOSPITAL FOR JOINT DISEASES AND MEDICAL CENTER ZIP CODE 10035</b>				
HOLLANDER, VINCENT P.		TUMOR AND SKELETOMUSCULAR ENDOCRINOLOGY	5T01 CA05215-08	50,703
ORGANIZATION TOTAL	1	50,703		
<b>MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES ZIP CODE 10021</b>				
BEATTIE, EDWARD J. JR.		CLINICAL CANCER—MEDICAL	5T12 CA08131-10	227,985
LEPLEY, JAMES B.		CLINICAL CANCER—DENTAL	5T12 CA08155-05	26,364
SCHWARTZ, MORTON K.		CANCER	5T01 CA05110-15	196,596
ORGANIZATION TOTAL	3	450,945		
<b>MONTEFIORE HOSPITAL AND MEDICAL CENTER ZIP CODE 10467</b>				
SPAET, THEODORE H.		HEMATOLOGY	5T32 HL07080-02	59,917
SURKS, MARTIN I.		INVESTIGATIVE ENDOCRINOLOGY	5T32 AM07004-02	18,494
ORGANIZATION TOTAL	2	78,411		
<b>NEW YORK UNIVERSITY ZIP CODE 10003</b>				
COX, RODY P.		BIOMETRY	5T22 GM00047-03	32,399
COX, RODY P.		BASIC MEDICAL SCIENCES	5T05 GM01668-13	230,299
COX, RODY P.		MEDICAL SCIENTIST	5T32 GM07308-02	181,541
DEFENDI, VITTORIO		CANCER	5T32 CA09161-02	276,031
DEFENDI, VITTORIO		PATHOLOGY	5T01 GM00127-20	43,823
FRANKLIN, EDWARD C.		ARTHRITIS	1T32 AM07176-01	9,247
KAUFMAN, LLOYD		VISION RESEARCH	5T32 EY07003-02	56,991
KOPF, ALFRED W.		IMMUNOLOGY, MICROBIOLOGY, DERMATOPATHOLOGY	1T32 AM07190-01	9,247
LAWRENCE, H. SHERWOOD		CELLULAR IMMUNOLOGY	5T01 AI00005-17	67,536
MC FALL, ELIZABETH		MICROBIOLOGY	3T01 GM01290-12S1	7,591
MC FALL, ELIZABETH		MICROBIOLOGY	5T01 GM01290-13	57,360
SABATINI, DAVID D.		CELLULAR AND MOLECULAR BIOLOGY	5T32 GM07238-02	64,800
SILBER, ROBERT		HEMATOLOGY	5T32 HL07151-02	127,462
VANDERBERG, JEROME P.		PARASITOLOGY	5T01 AI00361-07	40,261
ZADUNAISKY, JOSE A.		PHYSIOLOGY AND BIOCHEMISTRY OF THE EYE	5T32 EY07009-02	94,593
ORGANIZATION TOTAL	15	1,299,181		



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>			
<b>ROCKEFELLER UNIVERSITY      ZIP CODE 10021</b>			
CHOPPIN, PURNELL W.	MECHANISMS IN VIRUS INFECTION AND TRANSFORMATION	1T32 CA09256-01	133,743
MC CARTY, MACLYN	BASIC PATHOBIOLOGY	5T32 GM07245-02	98,369
PPAFFMANN, CARL	PSYCHOBIOLOGY OF BEHAVIOR	3T01 GM01789-09S1	11,556
PPAFFMANN, CARL	PSYCHOBIOLOGY OF BEHAVIOR	5T01 GM01789-10	237,143
ORGANIZATION TOTAL	4	480,811	
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH      ZIP CODE 10021</b>			
CHOI, YONG S.	IMMUNOLOGY RESEARCH	1T32 CA09149-01	180,009
HUTCHISON, DORRIS J.	CANCER	5T32 CA09055-02	120,723
ORGANIZATION TOTAL	2	300,732	
<b>STATE UNIVERSITY OF NEW YORK—DOWNSTATE MEDICAL CENTER      ZIP CODE 11203</b>			
AMASSIAN, VAHE E.	NEUROPHYSIOLOGY	5T01 NS05773-03	70,757
FURCHGOTT, ROBERT F.	PHARMACOLOGY	5T01 GM00163-19	57,552
ORGANIZATION TOTAL	2	128,309	
<b>YESHIVA UNIVERSITY      ZIP CODE 10033</b>			
ARIAS, IRWIN M.	GASTROENTEROLOGY-HEPATOLOGY RESEARCH	1T32 AM07218-01	19,529
AUGUST, J THOMAS	VIRAL ONCOLOGY & TUMOR BIOLOGY	5T32 CA09060-02	208,995
BARNETT, HENRY L.	HUMAN DEVELOPMENTAL BIOLOGY	5T32 HD07053-02	139,970
BAUM, STEPHEN G.	MEDICAL SCIENTIST	5T05 GM01674-13	285,284
BAUM, STEPHEN G.	MEDICAL SCIENTIST	5T32 GM07288-02	170,165
EDER, HOWARD A.	LIPID METABOLISM	5T01 HL05273-18	64,291
GLUECKSOHN-WAELSCH, SALOME	GENETICS	3T01 GM00110-13S1	9,720
GLUECKSOHN-WAELSCH, SALOME	GENETICS	5T01 GM00110-14	23,638
GOLDFISCHER, SIDNEY L.	PATHOBIOLOGY OF CONNECTIVE TISSUE	5T32 GM07168-02	36,938
HAYS, RICHARD M.	NEPHROLOGY—MULTIDISCIPLINARY	5T32 AM07089-02	29,243
HORWITZ, SUSAN B.	PHARMACOLOGICAL SCIENCES	5T32 GM07260-02	60,020
HURWITZ, JERARD	CELL AND MOLECULAR BIOLOGY	3T01 GM02209-04S1	14,171
HURWITZ, JERARD	CELL AND MOLECULAR BIOLOGY	5T01 GM02209-05	136,951
KLINGER, HAROLD P.	MEDICAL GENETICS	5T32 GM07001-02	52,992
LEVENSON, STANLEY M.	TRAUMA AND BURNS	5T32 GM07038-02	20,368
LILLY, FRANK	IMMUNOLOGY AND IMMUNOONCOLOGY	5T32 CA09173-02	288,205
MARMUR, JULIUS	GENETICS AND BIOCHEMISTRY OF CELLULAR REGULATION	5T32 GM07128-02	88,410
RAPIN, ISABELLE	PEDIATRIC NEUROLOGY	5T01 NS05325-17	110,815
ROMNEY, SEYMOUR L.	CANCER—GYNECOLOGY	5T01 CA05120-15	81,240
SCARPELLI, EMILE M.	MULTIDISCIPLINARY RESPIRATORY DISEASES	5T32 HL07060-02	118,751
SCHUEER, JAMES	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES	5T32 HL07071-02	159,343
SPITZER, ADRIAN	DEVELOPMENTAL RENAL AND ELECTROLYTE PHYSIOLOGY	1T32 AM07110-01	9,765
STEIGBIGEL, NEAL H.	MICROBIOLOGY AND IMMUNOLOGY	5T01 AI00405-06	94,462
TERRY, ROBERT D.	SENILE DEMENTIA—BIOLOGICAL AND BEHAVIORAL	5T32 AG00004-02	87,122
TERRY, ROBERT D.	NEUROPATHOLOGY	5T01 NS05275-17	79,791
ORGANIZATION TOTAL	25	2,390,179	
<b>ROCHESTER</b>			
<b>EASTMAN DENTAL CENTER      ZIP CODE 14605</b>			
ZANDER, HELMUT A.	PERIODONTOLOGY	5T22 DE00019-03	72,408
ORGANIZATION TOTAL	1	72,408	
<b>UNIVERSITY OF ROCHESTER      ZIP CODE 14627</b>			
ABOOD, LEO G.	NEUROCHEMISTRY	5T01 NS05750-03	37,599
BROWN, JOHN L.	VISUAL SCIENCES	5T01 EY00086-03	68,584
CHRISTENSEN, J ROGER	MICROBIOLOGY	3T01 GM00592-15S1	5,581
CHRISTENSEN, J ROGER	MICROBIOLOGY	5T01 GM00592-16	80,909
CLARKSON, THOMAS W.	TOXICOLOGY	3T01 GM01781-09S1	19,051
CLARKSON, THOMAS W.	TOXICOLOGY	5T01 GM01781-10	95,317

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>			
DI STEFANO, VICTOR.....	PHARMACOLOGY.....	5T01 GM00032-17	10,497
DI STEFANO, VICTOR.....	PHARMACOLOGICAL SCIENCES.....	5T32 GM07141-02	116,841
GROSS, PAUL R.....	CELLULAR AND MOLECULAR BIOLOGY.....	5T32 GM07230-02	115,978
HOROWICZ, PAUL.....	PHYSIOLOGY.....	3T01 GM00394-16S1	9,872
HOROWICZ, PAUL.....	SYSTEMS & INTEGRATIVE BIOLOGY.....	5T32 GM07136-02	44,485
HYDE, RICHARD W.....	PULMONARY DISEASES AND PHYSIOLOGY.....	5T01 HL05958-04	70,152
HYDE, RICHARD W.....	PULMONARY DISEASES—MULTIDISCIPLINARY.....	1T32 HL07216-01	10,947
JOHANSEN, ERLING.....	BASIC DENTAL SCIENCES.....	5T01 DE00003-20	204,885
KNIGGE, KARL M.....	ANATOMICAL SCIENCES.....	5T01 GM01782-08	54,394
LEDDY, JOHN P.....	ALLERGY, IMMUNOLOGY AND INFECTIOUS DISEASES.....	5T01 AI00028-18	111,860
LICHTMAN, MARSHALL A.....	HEMATOLOGY.....	5T32 HL07152-02	42,389
RICHTER, GOETZ W.....	PATHOLOGY.....	5T01 GM00133-20	34,964
RUBIN, PHILIP.....	RADIATION THERAPY, PHYSICS AND BIOLOGY.....	5T01 CA05102-15	80,726
SAMEROFF, ARNOLD J.....	DEVELOPMENTAL PSYCHOLOGY.....	5T01 HD00259-09	71,492
SELANDER, ROBERT K.....	GENETICS.....	3T01 GM00658-15S1	17,496
SELANDER, ROBERT K.....	GENETICS.....	5T01 GM00658-16	18,928
SPAR, IRVING L.....	BIOPHYSICS.....	3T01 GM01088-13S1	3,314
WEED, ROBERT I.....	CLINICAL INVESTIGATION.....	5T07 AM01004-12	17,414
YOUNG DONALD A.....	INVESTIGATIVE ENDOCRINOLOGY AND METABOLISM.....	5T32 AM07092-02	38,948
YOUNG, FRANK E.....	VENEREAL DISEASE.....	5T32 AI00137-02	32,112
YOUNG, FRANK E.....	MEDICAL SCIENTIST.....	5T05 GM02263-04	160,800
YOUNG, FRANK E.....	GENETICS AND REGULATION.....	5T32 GM07102-02	145,169
YU, PAUL N.....	MEDICAL CARDIOLOGY.....	5T01 HL05500-14	144,670
ORGANIZATION TOTAL	29	1,865,374	
<b>STONY BROOK</b>			
STATE UNIVERSITY OF NEW YORK AT STONY BROOK      ZIP CODE 11794			
IMOUYE, MASAYORI.....	MOLECULAR BIOLOGY.....	5T32 GM07212-02	81,328
KATES, JOSEPH R.....	VIRAL ONCOLOGY.....	5T32 CA09176-02	193,020
WITKOVSKY, PAUL.....	SENSORY TRANSDUCTION AND NEURAL PROCESSING IN VISION.....	1T32 EY07039-01	35,507
ORGANIZATION TOTAL	3	309,855	
<b>SYRACUSE</b>			
STATE UNIVERSITY OF NEW YORK—UPSTATE MEDICAL CENTER      ZIP CODE 13210			
GILBERT, ROBERT.....	PULMONARY DISEASES.....	5T01 HL05954-03	61,564
STREETEN, DAVID H.....	ENDOCRINOLOGY.....	5T32 AM07146-02	15,898
WEINER, IRWIN M.....	PHARMACOLOGY.....	5T01 GM00293-17	15,146
WEINER, IRWIN M.....	PHARMACOLOGICAL SCIENCES.....	5T32 GM07066-02	23,978
ORGANIZATION TOTAL	4	116,586	
SYRACUSE UNIVERSITY      ZIP CODE 13210			
MEYER, WILLIAM J.....	DEVELOPMENTAL PSYCHOLOGY—DEVELOPMENT AND AGING.....	5T01 AG00014-10	103,966
ORGANIZATION TOTAL	1	103,966	
<b>TROY</b>			
RENSSELAER POLYTECHNIC INSTITUTE      ZIP CODE 12181			
KATZ, J LAWRENCE.....	BIOPHYSICS AND CRYSTALLOGRAPHY.....	5T01 DE00117-13	100,711
KATZ, J LAWRENCE.....	DENTAL MATERIALS.....	1T32 DE07054-01	55,424
ORGANIZATION TOTAL	2	156,135	
<b>UPTON</b>			
ASSOCIATED UNIVERSITIES—BROOKHAVEN NATIONAL LABORATORY      ZIP CODE 11973			
SETLOW, RICHARD B.....	ENVIRONMENTAL AND GENETIC FACTORS IN NEOPLASIA.....	5T32 CA09121-02	121,836

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>NEW YORK—Con.</b>				
ORGANIZATION TOTAL	1	121,836		
STATE TOTAL	198	14,251,852		
<b>NORTH CAROLINA</b>				
<b>CHAPEL HILL</b>				
UNIVERSITY OF NORTH CAROLINA SYSTEM—UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL			ZIP CODE 27514	
BROMBERG, PHILIP A		RESPIRATORY DISEASES—MULTIDISCIPLINARY	5T32 HL07106-02	80,329
DAVIS, C E		CARDIOVASCULAR DISEASE—STATISTICS AND EPIDEMIOLOGY	5T32 HL07005-02	80,356
GOTTSCALK, CARL W		KIDNEY AND MEMBRANE PHYSIOLOGY AND DISEASE	5T32 AM07047-02	20,758
GRAHAM, JOHN B		MEDICAL GENETICS	5T22 GM00006-03	34,350
GRAHAM, JOHN B		GENETICS	5T01 GM00685-16	33,222
GRAHAM, JOHN B		GENETICS	5T32 GM07092-02	85,926
GRAHAM, JOHN B		GENETICS	5T32 GM07121-02	66,788
GREGG, JOHN M		MECHANISMS AND CONTROL OF CRANIOFACIAL PAIN	1T32 DE07018-01A1	32,924
GRISHAM, JOE W		ENVIRONMENTAL PATHOLOGY	5T32 ES07017-02	72,676
GRISHAM, JOE W		PATHOLOGY	5T01 GM00092-18	44,572
HALL, THOMAS L		POPULATION	5T01 HD00193-08	148,371
MANIRE, G PHILIP		TUMOR BIOLOGY	5T32 CA09057-02	50,354
MANIRE, G PHILIP		MICROBIOLOGY	3T01 GM01138-13S1	10,692
MANIRE, G PHILIP		MICROBIOLOGY	5T01 GM01138-14	62,688
PAGANO, JOSEPH S		BASIC MECHANISMS OF VIRAL AND CHEMICAL CARCINOGENESIS	5T32 CA09156-02	130,215
PIANTADOSI, CLAUDE		MEDICINAL CHEMISTRY	5T01 GM01770-08	14,933
ROBERTS, HAROLD R		HEMATOLOGY	5T32 HL07149-02	57,107
SILVERMAN, MYRON S		BASIC SCIENCES	5T01 DE00288-05	64,405
SPARLING, PHILIP F		VENEREAL DISEASES	5T32 AI07001-02	36,072
STEDMAN, DONALD J		MENTAL RETARDATION	5T01 HD00424-03	100,478
STOVER, BETSY J		PHARMACOLOGICAL SCIENCES	5T32 GM07040-02	49,497
TYROLER, HERMAN A		CARDIOVASCULAR EPIDEMIOLOGY AND STATISTICS	5T32 HL07055-02	91,096
VAN WYK, JUDSON J		ENDOCRINOLOGY AND METABOLISM	5T32 AM07129-02	19,486
WELLS, H BRADLEY		POPULATION STATISTICS	5T01 HD00371-05	69,954
ORGANIZATION TOTAL	24	1,457,249		
<b>DURHAM</b>				
DUKE UNIVERSITY			ZIP CODE 27706	
AMOS, DENNIS B		TUMOR IMMUNOLOGY AND IMMUNOGENETICS	5T32 CA09058-02	149,692
APPEL, STANLEY H		BIOLOGICAL APPROACHES TO DEMENTIA	5T32 AG00007-02	73,980
APPEL, STANLEY H		BEHAVIORAL SCIENCES	5T01 GM01238-13	51,933
BUCKLEY, REBECCA H		STUDIES OF MECHANISMS LEADING TO THE ATOPIC RESPONSE	5T22 AI00135-03	67,363
FRIDOVICH, IRWIN		BIOCHEMISTRY	5T01 GM00233-17	25,839
GOLDSMITH, LOWELL A		DERMATOLOGY	5T32 AM07093-02	24,801
GRIFFITH, JOHN F		MENTAL RETARDATION	5T01 HD00205-09	87,041
GROSS, SAMSON R		GENETICS	5T01 GM02007-08	89,112
HILL, ROBERT L		MULTIDISCIPLINARY BASIC MEDICAL SCIENCES	5T05 GM01678-11	177,944
HILL, ROBERT L		MEDICAL SCIENTIST	5T32 GM07171-02	152,865
HILL, ROBERT L		ORGANIZATION AND FUNCTIONS OF CELLULAR STRUCTURES	5T32 GM07184-02	262,811
JOKLIK, WOLFGANG K		VIRAL ONCOLOGY	5T32 CA09111-02	250,340
JOKLIK, WOLFGANG K		MICROBIOLOGY	5T01 GM01019-14	4,953
KINNEY, THOMAS D		EXPERIMENTAL PATHOLOGY	5T01 GM00726-16	38,063
LEBOVITZ, HAROLD E		ENDOCRINOLOGY AND DIABETES	5T32 AM07012-02	38,893
MADDOX, GEORGE I		BEHAVIOR & PHYSIOLOGY IN AGING	1T32 AG00029-01	118,460
MENZEL, DANIEL B		TRANSFORMATION AND BIOLOGICAL EFFECTS OF TOXICANTS	5T32 ES07002-02	155,078
MOORE, JOHN W		BIOLOGICAL SYSTEMS	5T32 GM07046-02	52,516

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>NORTH CAROLINA—Con.</b>			
MYERS, GEORGE C.....	DEMOGRAPHY AND ECOLOGY.....	ST01 GM01291-13	132,963
NARAHASHI, TOSHIO.....	PHARMACOLOGICAL SCIENCES.....	ST32 GM07105-02	104,245
ROBERTSON, J DAVID.....	EXPERIMENTAL PATHOLOGY.....	ST22 GM00100-03	79,020
ROBINSON, ROSCOE R.....	NEPHROLOGY.....	ST01 HL05848-08	132,435
ROSATI, ROBERT A.....	BIOMEDICAL COMMUNICATIONS.....	ST15 LM07003-02	93,585
ROSSE, WENDELL F.....	BLOOD BANKING SCIENCES AND RELATED PROGRAMS.....	ST32 HL07057-02	78,184
RUNDLES, RALPH WAYNE.....	CANCER CHEMOTHERAPY AND HEMATOLOGY.....	ST01 CA05042-18	96,214
SABISTON, DAVID C, JR.....	SURGERY.....	ST01 GM01709-11	117,234
SALZANO, JOHN V.....	PHYSIOLOGY AND PHARMACOLOGY.....	ST01 GM00929-15	129,954
TYOR, MALCOLM P.....	DIGESTIVE DISEASES.....	1T32 AM07166-01	19,529
WALLACE, ANDREW G.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	ST32 HL07101-02	251,567
WOLBARSH, MYRON L.....	BIOMEDICAL ENGINEERING.....	ST01 GM02286-03	31,856
WYNGAARDEN, JAMES B.....	METABOLIC AND RHEUMATIC DISEASES.....	ST32 AM07015-02	7,276
ORGANIZATION TOTAL	31	3,095,746	
<b>RALEIGH</b>			
UNIVERSITY OF NORTH CAROLINA SYSTEM—NORTH CAROLINA STATE UNIVERSITY AT RALEIGH		ZIP CODE 27607	
GUTHRIE, FRANK E.....	MOLECULAR AND ENVIRONMENTAL TOXICOLOGY.....	ST01 ES00083-10	30,095
SCANDALIOS, JOHN G.....	GENETICS.....	ST01 GM00296-16	30,952
ORGANIZATION TOTAL	2	61,047	
<b>WINSTON-SALEM</b>			
WARE FOREST UNIVERSITY		ZIP CODE 27109	
CLARKSON, THOMAS B.....	LABORATORY ANIMAL CARE PROGRAM.....	ST01 RR05000-17	41,093
HARRILL, JAMES A.....	OTOLARYNGOLOGY.....	ST01 NS05199-19	41,190
MYRVIK, QUENTIN N.....	MULTIDISCIPLINARY RESPIRATORY DISEASES.....	ST32 HL07117-02	59,055
RAPELA, CARLOS E.....	CARDIOVASCULAR PHYSIOLOGY.....	ST01 HL05392-17	130,915
ST CLAIR, RICHARD W.....	MULTIDISCIPLINARY HEART AND VASCULAR DISEASES.....	ST32 HL07115-02	106,657
ORGANIZATION TOTAL	5	378,910	
STATE TOTAL	62	4,992,952	
<b>NORTH DAKOTA</b>			
<b>GRAND FORKS</b>			
UNIVERSITY OF NORTH DAKOTA		ZIP CODE 58201	
BRUMLEVE, STANLEY J.....	MAMMALIAN RESPIRATORY NORMAL, AND PATHOLOGIC PHYSIOLOGY.....	ST01 HL05939-03	58,640
FISCHER, ROBERT G.....	MICROBIOLOGY.....	ST01 GM01097-13	27,631
ORGANIZATION TOTAL	2	86,271	
STATE TOTAL	2	86,271	
<b>OHIO</b>			
<b>CINCINNATI</b>			
CHILDREN'S HOSPITAL MEDICAL CENTER		ZIP CODE 45229	
LAMPKIN, BEATRICE C.....	PEDIATRIC HEMATOLOGY.....	ST01 CA05196-10	30,981
WEST, CLARK D.....	PEDIATRIC NEPHROLOGY RESEARCH.....	1T32 AM07051-01A1	9,469
ORGANIZATION TOTAL	2	40,450	



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>OHIO—Con.</b>				
<b>UNIVERSITY OF CINCINNATI      ZIP CODE 45221</b>				
HAMMOND, PAUL B.....		TOXICOLOGY.....	5T01 ES00127-09	100,726
LICHSTEIN, HERMAN C.....		MICROBIOLOGY.....	3T01 GM01255-12S1	1,944
ORGANIZATION TOTAL	2	102,670		
<b>CLEVELAND</b>				
<b>CASE WESTERN RESERVE UNIVERSITY      ZIP CODE 44106</b>				
CARTER, JOHN R.....		PATHOBIOLOGY.....	5T01 GM01784-10	125,780
CHESTER, EDWARD H.....		RESPIRATORY MEDICINE.....	5T01 HL05987-03	33,788
COOPER, CECIL.....		MEDICAL SCIENTIST.....	5T32 GM07250-02	142,059
HEIPLE, KINGSBURY G.....		APPLIED MUSCULOSKELETAL BIOMECHANICS.....	1T32 AM07188-01	10,260
HOLDEN, WILLIAM D.....		GENERAL SURGERY.....	5T01 GM01588-10	62,577
KEAN, EDWARD L.....		VISUAL SCIENCES—MULTIDISCIPLINARY.....	5T32 EY07006-02	17,416
KOHN, ROBERT R.....		AGING OF MAMMALIAN TISSUES.....	5T01 AG00026-06	48,649
KRAMPITZ, L O.....		MICROBIOLOGY.....	5T01 GM00171-18	144,590
KRAMPITZ, L O.....		CELLULAR AND MOLECULAR BIOLOGY.....	5T32 GM07225-02	50,437
LAKE, ROBIN B.....		COMPUTER TECHNOLOGY IN HEALTH SCIENCES.....	5T15 LM07001-02	112,725
LIEBMAN, JEROME.....		PEDIATRIC CARDIOLOGY—CLINICAL.....	5T01 HL05803-08	64,368
MACINTYRE, M NEIL.....		ANATOMICAL SCIENCES.....	5T01 GM00820-15	104,531
MATTHEWS, LEROY W.....		PEDIATRIC PULMONARY DISEASES.....	5T01 HL06009-03	85,320
PLONSEY, ROBERT.....		BIOMEDICAL ENGINEERING.....	3T01 GM01090-13S1	10,260
PLONSEY, ROBERT.....		BIOMEDICAL ENGINEERING.....	5T01 GM01090-14	135,908
RATNOFF, OSCAR D.....		HEMATOLOGY.....	5T32 HL07147-02	58,389
ROSENBERG, GEORGE S.....		GERONTOLOGY—SOCIAL.....	5T01 AG00011-10	74,933
ROTHCHILD, IRVING.....		BIOLOGY OF HUMAN REPRODUCTION.....	5T01 HD00024-13	72,018
SINGER, MARCUS.....		DEVELOPMENTAL BIOLOGY.....	5T01 HD00020-15	134,839
STEINBERG, ARTHUR G.....		MEDICAL GENETICS.....	5T32 GM07004-02	45,684
THOMPSON, WILMER L.....		CLINICAL PHARMACOLOGY.....	5T32 GM07022-02	53,573
UTTER, MERTON F.....		BIOCHEMISTRY.....	3T01 GM00035-18S1	22,356
UTTER, MERTON F.....		BIOCHEMISTRY.....	5T01 GM00035-19	163,549
WARREN, KENNETH S.....		GEOGRAPHIC MEDICINE RESEARCH.....	1T32 AI07024-01	24,395
ORGANIZATION TOTAL	24	1,798,404		
<b>CLEVELAND CLINIC HOSPITAL      ZIP CODE 44106</b>				
KHAIRALLAH, PHILIP A.....		BIOCHEMISTRY.....	5T01 HL05126-19	61,830
ORGANIZATION TOTAL	1	61,830		
<b>COLUMBUS</b>				
<b>OHIO STATE UNIVERSITY      ZIP CODE 43210</b>				
ALLEN, JAMES M.....		BIOCHEMICAL NEUROPATHOLOGY.....	1T32 NS07091-01	36,427
ALLISON, MORGAN L.....		DENTAL ANESTHESIOLOGY.....	5T01 DE00291-05	74,639
BALCERZAK, STANLEY P.....		ONCOLOGY.....	5T32 CA09155-02	118,948
BALCERZAK, STANLEY P.....		HEMATOLOGY.....	5T32 HL07141-02	59,605
COLE, CLARENCE R.....		COMPARATIVE PATHOLOGY.....	5T01 GM01052-14	41,861
FERRIS, THOMAS F.....		RENAL DISEASES.....	5T01 HL05975-04	71,211
GRUENER, HANNS-DIETER F.....		CLINICAL CHEMISTRY.....	5T01 GM01805-09	42,595
HUNT, WILLIAM E.....		NEUROLOGICAL SURGERY.....	5T01 NS05529-11	58,776
TASSAVA, ROY A.....		DEVELOPMENTAL BIOLOGY—INTERDISCIPLINARY.....	5T01 HD00431-03	51,016
TRZEBIATOWSKI, GREGORY L.....		BIOMEDICAL COMPUTING AND INFORMATION PROCESSING.....	5T01 LM00159-02	88,319
WARREN, JAMES V.....		CARDIOVASCULOLOGY.....	5T01 HL05968-04	131,667
WITIAK, DONALD T.....		MEDICINAL CHEMISTRY.....	5T01 GM01949-08	58,963
ORGANIZATION TOTAL	12	834,027		
STATE TOTAL	41	2,837,381		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training		Grant number	Dollars
OKLAHOMA				
OKLAHOMA CITY				
OKLAHOMA MEDICAL RESEARCH FOUNDATION      ZIP CODE 73104				
BRADFORD, REAGAN H .....	MEDICAL CARDIOLOGY .....		ST01 HL05403-16	64,963
ORGANIZATION TOTAL      1	64,963			
UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER      ZIP CODE 73190				
BASTA, LOTFY L .....	CARDIOVASCULOLOGY .....		ST01 HL05406-17	83,484
COUNIHAN, DONALD .....	OROFACIAL CLEFTS .....		ST01 DE00263-05	11,397
ROGERS, ROBERT M .....	PULMONARY DISEASES .....		ST17 HL07155-02	75,600
ROGERS, ROBERT M .....	PULMONARY DISEASES—MULTIDISCIPLINARY .....		IT32 HL07210-01	28,750
TAYLOR, FLETCHER B, JR .....	HEMATOLOGY .....		IT32 HL07207-01	38,335
ORGANIZATION TOTAL      5	237,566			
STATE TOTAL      6	302,529			
OREGON				
CORVALLIS				
OREGON STATE HIGHER EDUCATION SYSTEM—OREGON STATE UNIVERSITY      ZIP CODE 97331				
CALVIN, LYLE D .....	BIOMETRY .....		ST01 GM01736-10	69,081
FRYER, J L .....	MICROBIOLOGY .....		ST01 GM00704-14	23,960
WEBER, LAVERN J .....	COMPARATIVE PHARMACOLOGY AND TOXICOLOGY .....		ST32 GM07148-02	22,465
ORGANIZATION TOTAL      3	115,506			
EUGENE				
OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON      ZIP CODE 97403				
HOYLE, GRAHAM .....	PHYSIOLOGY .....		3T01 GM00336-15S1	7,794
VON HIPPEL, PETER H .....	MOLECULAR BIOLOGY .....		3T01 GM00715-17S1	25,434
VON HIPPEL, PETER H .....	MOLECULAR BIOLOGY .....		ST01 GM00715-18	127,212
WICKELGREN, WAYNE A .....	HUMAN EXPERIMENTAL PSYCHOLOGY .....		3T01 GM02165-02S1	2,443
WICKELGREN, WAYNE A .....	HUMAN EXPERIMENTAL PSYCHOLOGY .....		ST01 GM02165-03	70,451
WITANEN, WAYNE A .....	SYSTEMS AND INTEGRATIVE BIOLOGY .....		ST32 GM07257-02	60,518
WOLFE, RAYMOND G, JR .....	BIOCHEMISTRY .....		3T01 GM00444-16S1	4,199
ORGANIZATION TOTAL      7	298,051			
PORTLAND				
OREGON STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF OREGON HEALTH SCIENCES CENTER      ZIP CODE 97201				
BROOKHART, JOHN M .....	PHYSIOLOGY .....		ST01 GM00538-16	10,141
DOTTER, CHARLES T .....	ANGIOGRAPHY AND CARDIOVASCULAR RADIOGRAPHY .....		ST01 HL05828-08	49,609
JONES, RICHARD T .....	BIOCHEMISTRY .....		3T01 GM01200-12S1	3,564
KLOSTER, FRANK E .....	MEDICAL CARDIOLOGY .....		ST01 HL05791-09	150,321
SWAN, KENNETH C .....	OPHTHALMOLOGY .....		ST01 EY00006-22	40,871
WUEPPER, KIRK D .....	MULTIDISCIPLINARY DERMATOLOGY .....		IT32 AM07153-01	9,764
ORGANIZATION TOTAL      6	264,270			
STATE TOTAL      16	677,827			

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>PENNSYLVANIA</b>			
<b>HERSHEY</b>			
<b>PENNSYLVANIA STATE UNIVERSITY MILTON S. HERSHEY MEDICAL CENTER      ZIP CODE 17033</b>			
MORGAN, HOWARD E.....	CELLULAR BIOLOGY-HEART.....	1T32 HL07223-01	77,112
ORGANIZATION TOTAL      1	77,112		
<b>PHILADELPHIA</b>			
<b>CHILDREN'S HOSPITAL OF PHILADELPHIA      ZIP CODE 19104</b>			
SCHWARTZ, ELIAS.....	HEMATOLOGY.....	5T32 HL07150-02	39,057
SEGAL, STANTON.....	MEMBRANE RESEARCH.....	5T32 GM07025-02	52,272
SEGAL, STANTON.....	PEDIATRICS.....	5T01 HD00215-10	77,960
ORGANIZATION TOTAL      3	169,289		
<b>DREXEL UNIVERSITY      ZIP CODE 19104</b>			
BEARD, RICHARD B.....	BIOMEDICAL ENGINEERING.....	5T01 DE00199-10	89,225
BEARD, RICHARD B.....	BIOMEDICAL ENGINEERING.....	3T01 HL05417-15S1	284
BEARD, RICHARD B.....	BIOMEDICAL ENGINEERING.....	5T01 HL05417-16	142,258
ORGANIZATION TOTAL      3	231,767		
<b>HANNEWMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA      ZIP CODE 19102</b>			
DEVLIN, THOMAS M.....	CLINICAL BIOCHEMISTRY.....	3T01 GM02198-02S1	2,320
DEVLIN, THOMAS M.....	CLINICAL BIOCHEMISTRY.....	5T01 GM02198-03	69,240
ORGANIZATION TOTAL      2	71,560		
<b>INSTITUTE FOR CANCER RESEARCH      ZIP CODE 19111</b>			
TALBOT, TIMOTHY R. JR.....	CANCER RESEARCH.....	5T32 CA00935-02	262,454
ORGANIZATION TOTAL      1	262,454		
<b>MEDICAL COLLEGE OF PENNSYLVANIA      ZIP CODE 19129</b>			
MARSH, JULIAN B.....	PHYSIOLOGY.....	5T01 GM02008-08	16,919
ORGANIZATION TOTAL      1	16,919		
<b>ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN      ZIP CODE 19133</b>			
GROVER, WARREN D.....	NEUROLOGY.....	5T01 NS10072-03	43,059
ORGANIZATION TOTAL      1	43,059		
<b>TEMPLE UNIVERSITY      ZIP CODE 19122</b>			
KUNDEL, HAROLD L.....	DIAGNOSTIC RADIOLOGY.....	5T01 GM01702-11	84,771
SHERRY, SOL.....	THROMBOSIS, COAGULATION AND FIBRINOLYSIS.....	5T01 HL05976-04	42,532
SHOCKMAN, GERALD D.....	MICROBIOLOGY.....	3T01 GM00983-13S1	8,748
SHOCKMAN, GERALD D.....	MICROBIOLOGY.....	5T01 GM00983-14	46,488
SPANN, JAMES F. JR.....	CARDIOLOGY.....	1T32 HL07198-01	40,093
ORGANIZATION TOTAL      5	222,632		
<b>THOMAS JEFFERSON UNIVERSITY      ZIP CODE 19107</b>			
BRENT, ROBERT L.....	DEVELOPMENTAL BIOLOGY.....	1T32 HD07075-01	64,104
ERSLEV, ALLAN J.....	HEMATOLOGY.....	5T32 AM07084-02	39,649
KRAMER, SIMON.....	RADIATION THERAPY.....	5T32 CA09137-02	33,303
LIBERTI, PAUL A.....	IMMUNOCHEMISTRY AND IMMUNOBIOLOGY.....	1T32 AI07043-01	35,076
ORGANIZATION TOTAL      4	172,132		
<b>UNIVERSITY OF PENNSYLVANIA      ZIP CODE 19174</b>			
BAUM, STANLEY.....	NUCLEAR MEDICINE.....	5T01 GM01762-09	40,003
BRIGHTON, CARL T.....	BONE AND CARTILAGE RESEARCH.....	1T32 AM07132-01A1	19,529
BRINSTER, RALPH L.....	VETERINARY MEDICINE.....	5T01 GM02051-08	193,859
BRINSTER, RALPH L.....	REPRODUCTIVE PHYSIOLOGY.....	5T01 HD00239-08	75,044
BROBECK, JOHN R.....	PHYSIOLOGY.....	3T01 GM00205-17S1	5,508

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>PENNSYLVANIA—Con.</b>			
BROBECK, JOHN R	PHYSIOLOGY	5T01 GM00205-18	63,940
COHEN, SIDNEY	GASTROENTEROLOGY	5T32 AM07066-02	40,832
COOPER, RICHARD A	HEMATOLOGY	5T01 HL06019-14	102,287
FERGUSON, JAMES J, JR	MEDICAL SCIENTIST	5T05 GM02046-08	195,983
FERGUSON, JAMES J, JR	MEDICAL SCIENTIST	5T32 GM07170-02	176,193
FISHMAN, ALFRED P	MULTIDISCIPLINARY RESPIRATORY DISEASES	5T32 HL07000-02	83,811
FITTS, WILLIAM T, JR	SURGERY	5T01 GM01540-11	65,094
FORSTER, ROBERT E	PULMONARY PHYSIOLOGY	5T32 HL07027-02	79,891
GOLDBERG, MARTIN	RENAL PATHOPHYSIOLOGY IN CARDIAC AND RENAL DISEASE	5T32 AM07006-02	30,624
HOLTZER, HOWARD	CELL AND MOLECULAR BIOLOGY	5T32 GM07229-02	235,988
HOLTZER, HOWARD	CELL DIFFERENTIATION	5T01 HD00030-14	103,043
HURVICH, LEO M	PSYCHOPHYSICS AND PHYSIOLOGY OF VISION	1T32 EY07035-01	130,059
KALLENBACH, NEVILLE R	GENETICS	5T32 GM07071-02	52,526
KARE, MORLEY R	SENSORY PHYSIOLOGY AND BIOPHYSICS	1T32 NS07068-01	67,611
KLINMAN, NORMAN R	THE IMMUNOBIOLOGY OF NORMAL AND NEOPLASTIC LYMPHOCYTES	5T32 CA09140-02	373,975
KOELLE, GEORGE B	PHARMACOLOGICAL SCIENCES	5T32 GM07302-02	92,284
KOROSTOFF, EDWARD	DENTISTRY—MATERIALS	5T01 DE00104-14	145,300
KRITCHEVSKY, DAVID	MOLECULAR BIOLOGY	5T01 GM00694-16	5,707
LASH, JAMES W	ANALYSIS OF DEVELOPMENT	1T32 HD07067-01	78,761
MARSHAK, ROBERT R	CANCER—MULTIDISCIPLINARY	5T01 CA05097-15	79,013
MELLMAN, WILLIAM J	MEDICAL GENETICS	5T22 GM00053-03	40,993
PEACHEY, LEE D	DEVELOPMENTAL BIOLOGY	5T01 GM00849-15	33,798
ROSNER, BURTON S	PHYSIOLOGICAL PSYCHOLOGY	5T01 GM01036-15	55,479
SCHEIE, HAROLD G	OPHTHALMOLOGY	5T01 EY00049-10	56,457
SHIP, IRWIN I	SOFT TISSUE DISEASES	5T32 DE07036-02	117,252
SNOW, JAMES B, JR	OTOLARYNGOLOGY	5T01 NS05769-03	115,926
SOMLYO, ANDREW P	PATHOLOGY	5T32 GM00092-02	155,479
SOULSBY, ERNEST J	IMMUNOLOGY OF HOST PARASITE RELATIONSHIPS	1T32 AI07050-01	48,574
SPRAGUE, JAMES M	ANATOMICAL SCIENCES	3T01 GM00281-17S1	7,776
SPRAGUE, JAMES M	ANATOMICAL SCIENCES	5T01 GM00281-18	116,194
STELLAR, ELIOT	BEHAVIORAL & NEUROLOGICAL SCIENCES	5T01 GM01994-08	102,534
VAN DE WALLE, ETIENNE	DEMOGRAPHY	5T01 HD00192-10	40,993
WEISS, LEON P	EXPERIMENTAL HEMATOLOGY AND CELL BIOLOGY	1T32 AM07185-01	19,932
WOLLMAN, HARRY	DENTAL PAIN CONTROL	1T32 DE07009-01A1	32,355
WOLLMAN, HARRY	ANESTHESIOLOGY	5T01 GM00215-19	203,807
YANOFF, MYRON	OPHTHALMIC PATHOLOGY	5T01 EY00079-05	54,900
ZWEIMAN, BURTON	ALLERGY AND IMMUNOLOGIC DISEASES	1T32 AI07031-01	58,420
ORGANIZATION TOTAL	42	3,797,736	
<b>WILLS EYE HOSPITAL ZIP CODE 19130</b>			
SERY, THEODORE W	INFECTIONS AND IMMUNOLOGICAL RESPONSE IN OCULAR DISEASE	5T01 EY00084-05	47,336
ORGANIZATION TOTAL	1	47,336	
<b>WISTAR INSTITUTE OF ANATOMY AND BIOLOGY ZIP CODE 19104</b>			
KOPROWSKI, HILARY	BASIC CANCER RESEARCH	1T32 CA09171-01	219,876
ORGANIZATION TOTAL	1	219,876	
<b>PITTSBURGH</b>			
<b>ALLEGHENY GENERAL HOSPITAL ZIP CODE 15212</b>			
LESHER, SAMUEL W	RADIATION BIOLOGY AND CANCER	5T01 CA05224-08	37,460
ORGANIZATION TOTAL	1	37,460	
<b>CARNEGIE-MELLON UNIVERSITY ZIP CODE 15213</b>			
REICHERT, THOMAS A	BIOMEDICAL ENGINEERING	3T01 GM01455-10S1	5,616
REICHERT, THOMAS A	BIOMEDICAL ENGINEERING	5T01 GM01455-11	72,400
ORGANIZATION TOTAL	2	78,016	



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>PENNSYLVANIA—Con.</b>				
<b>EYE AND EAR HOSPITAL OF PITTSBURGH</b>		<b>ZIP CODE 15213</b>		
BROWN, STUART I.....		OCULAR CONNECTIVE TISSUES.....	1T32 EY07032-01	34,027
ORGANIZATION TOTAL	1	34,027		
<b>WAGEE-WOMEN'S HOSPITAL</b>		<b>ZIP CODE 15213</b>		
HAYASHI, T. TERRY.....		REPRODUCTION AND NEONATOLOGY.....	5T01 HD00227-08	28,985
ORGANIZATION TOTAL	1	28,985		
<b>UNIVERSITY OF PITTSBURGH</b>		<b>ZIP CODE 15260</b>		
BENTLEY, RONALD.....		BIOCHEMISTRY.....	5T01 GM00149-18	55,240
FIELD, JAMES B.....		ENDOCRINOLOGY AND METABOLISM.....	5T01 AM05047-21	16,481
FIELD, JAMES B.....		DIABETES AND ENDOCRINOLOGY.....	5T32 AM07052-02	18,642
GILL, THOMAS J, III.....		PATHOLOGY.....	5T01 GM00135-20	63,288
KULLER, LEWIS H.....		CARDIOVASCULAR EPIDEMIOLOGY.....	5T32 HL07011-02	91,751
LESTER, ROGER.....		LIVER METABOLISM AND INTESTINAL TRANSPORT.....	5T32 AM07138-02	18,358
MURDAUGH, HERSCHEL V. JR.....		KIDNEY IN HEALTH AND DISEASE.....	5T01 HL05905-06	75,600
OLIVER, THOMAS K, JR.....		ACADEMIC PEDIATRICS.....	3T01 HD00062-14S1	6,519
OLIVER, THOMAS K, JR.....		ACADEMIC PEDIATRICS.....	5T01 HD00062-15	124,763
SPRECHER, RAYMOND L.....		PHARMACOLOGY-DENTAL.....	5T01 DE00213-07	30,000
ORGANIZATION TOTAL	10	500,642		
<b>UNIVERSITY PARK</b>				
<b>PENNSYLVANIA STATE UNIVERSITY</b>		<b>ZIP CODE 16802</b>		
BAKER, PAUL T.....		ANTHROPOLOGY-HUMAN BIOLOGICAL ADAPTABILITY.....	5T01 GM01748-08	104,054
TAYLOR, CHARLES.....		GERONTOLOGY-INTERDISCIPLINARY.....	5T01 AG00019-10	93,584
TAYLOR, WILLIAM D.....		BIOPHYSICS.....	3T01 GM01015-14S1	3,888
TAYLOR, WILLIAM D.....		BIOPHYSICS.....	5T01 GM01015-15	46,032
ZIMMERMAN, LEONARD N.....		MICROBIOLOGY.....	3T01 GM00512-15S1	4,821
ORGANIZATION TOTAL	5	252,379		
STATE TOTAL	85	6,263,381		
<b>RHODE ISLAND</b>				
<b>PROVIDENCE</b>				
<b>BROWN UNIVERSITY</b>		<b>ZIP CODE 02912</b>		
FAIN, JOHN N.....		DIABETES, ENDOCRINOLOGY, AND METABOLOGY.....	1T32 AM07187-01	9,807
GOLDSTEIN, SIDNEY.....		POPULATION CHANGE, DISTRIBUTION, AND MODERNIZATION.....	1T32 HD07069-01	74,732
RIGGS, LORRIN A.....		VISUAL PSYCHOPHYSIOLOGY.....	1T32 EY07029-01	29,970
ORGANIZATION TOTAL	3	114,509		
STATE TOTAL	3	114,509		
<b>SOUTH CAROLINA</b>				
<b>CHARLESTON</b>				
<b>MEDICAL UNIVERSITY OF SOUTH CAROLINA</b>		<b>ZIP CODE 29401</b>		
GAFFNEY, THOMAS E.....		CLINICAL PHARMACOLOGY.....	5T22 GM00038-03	39,659
ORGANIZATION TOTAL	1	39,659		
STATE TOTAL	1	39,659		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>TENNESSEE</b>			
<b>KNOXVILLE</b>			
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE AT KNOXVILLE      ZIP CODE 37918</b>			
BILLEN, DANIEL.....	CARCINOGENESIS.....	5T32 CA09104-02	25,280
BILLEN, DANIEL.....	MULTIDISCIPLINARY BIOLOGICAL SCIENCES.....	5T01 GM01974-08	146,523
KENNEY, FRANCIS T.....	CARCINOGENESIS.....	5T01 CA05296-03	130,194
STULBERG, MELVIN P.....	MOLECULAR CELLULAR AGING.....	1T32 AG00028-01	73,994
ORGANIZATION TOTAL      4	375,991		
<b>MEMPHIS</b>			
<b>ST. JUDE CHILDREN'S RESEARCH HOSPITAL      ZIP CODE 38101</b>			
MAUER, ALVIN M.....	CANCER—MULTIDISCIPLINARY.....	5T01 CA05176-13	222,554
MAUER, ALVIN M.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08151-07	100,594
ORGANIZATION TOTAL      2	323,148		
<b>UNIVERSITY OF TENNESSEE SYSTEM—UNIVERSITY OF TENNESSEE CENTER FOR THE HEALTH SCIENCES      ZIP CODE 38163</b>			
MASI, ALFONSE T.....	ARTHRITIS.....	5T01 AM05055-21	27,797
ROBERTSON, G GORDON.....	ANATOMICAL SCIENCES.....	3T01 GM00202-17S1	3,672
ROBERTSON, G GORDON.....	ANATOMICAL SCIENCES.....	5T01 GM00202-18	81,672
ORGANIZATION TOTAL      3	113,141		
<b>NASHVILLE</b>			
<b>GEORGE PEABODY COLLEGE FOR TEACHERS      ZIP CODE 37203</b>			
ODOM-BROOKS, PENELOPE.....	MENTAL RETARDATION—BEHAVIORAL.....	5T32 HD07045-02	122,170
ORGANIZATION TOTAL      1	122,170		
<b>VANDERBILT UNIVERSITY      ZIP CODE 37240</b>			
BASS, ALLAN D.....	PHARMACOLOGY.....	5T01 GM00058-18	78,142
BRIGHT, KENNETH L.....	RESPIRATORY DISEASES—MULTIDISCIPLINARY.....	5T32 HL07123-02	38,169
BROQUIST, HARRY P.....	NUTRITION AND GASTROENTEROLOGY.....	5T32 AM07083-02	31,596
CROFFORD, OSCAR B.....	DIABETES AND ENDOCRINOLOGY.....	5T32 AM07061-02	21,384
ELLIOTT, JAMES H.....	VISUAL SCIENCES.....	1T32 EY07007-01A1	65,134
KAPLAN, ALBERT S.....	REGULATION OF CELL AND VIRUS GROWTH.....	5T01 CA05295-03	93,902
KRANTZ, SANFORD B.....	HEMATOLOGY.....	1T32 AM07186-01	38,833
LEQUIRE, VIRGIL S.....	PATHOLOGY.....	5T01 GM00290-15	2,918
NEAL, ROBERT A.....	ENVIRONMENTAL TOXICOLOGY.....	5T32 ES07028-02	57,753
OATES, JOHN A.....	CLINICAL PHARMACOLOGY.....	5T22 GM00113-03	73,663
PUETT, J DAVID.....	REPRODUCTIVE BIOLOGY, BIOCHEMISTRY, AND ENDOCRINOLOGY.....	5T32 HD07043-02	86,347
SCOTT, H WILLIAM, JR.....	SURGERY.....	5T01 GM01742-10	101,976
TOUSTER, OSCAR.....	CELLULAR—MOLECULAR BIOLOGY.....	5T32 GM07319-02	169,902
ORGANIZATION TOTAL      13	859,719		
<b>OAK RIDGE</b>			
<b>OAK RIDGE ASSOCIATED UNIVERSITIES      ZIP CODE 37830</b>			
ANDREWS, GOULD A.....	CANCER—INTERDISCIPLINARY.....	5T01 CA05287-03	58,299
ORGANIZATION TOTAL      1	58,299		
STATE TOTAL      24	1,852,468		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>TEXAS</b>			
<b>AUSTIN</b>			
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS AT AUSTIN		ZIP CODE 78712	
GOUGH, PHILIP B.....	PSYCHOLINGUISTICS.....	3T01 HD00439-02S1	1,296
GOUGH, PHILIP B.....	PSYCHOLINGUISTICS.....	5T01 HD00439-03	44,547
HARDESTY, BOYD A.....	MEMBRANE CHANGES IN CARCINOGENESIS.....	5T32 CA09182-02	164,201
JUDD, BURKE H.....	GENETIC MECHANISMS AND THE REGULATION OF GENE ACTIVITY.....	5T32 GM07126-02	103,017
WAGNER, ROBERT P.....	GENETICS & CELL BIOLOGY.....	3T01 GM00337-16S1	8,588
ORGANIZATION TOTAL	5	321,649	
<b>COLLEGE STATION</b>			
TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY SYSTEM—TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY		ZIP CODE 77843	
BRIDGES, CHARLES H.....	VETERINARY PATHOLOGY.....	5T01 GM01232-13	16,136
ORGANIZATION TOTAL	1	16,136	
<b>DALLAS</b>			
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS		ZIP CODE 75235	
COMBES, BURTON.....	GASTROENTEROLOGY AND LIVER DISEASE.....	5T32 AM07100-02	24,294
DIETSCHY, JOHN M.....	MEMBRANE TRANSPORT IN HEALTH AND IN VARIOUS DISEASES.....	5T22 GM00034-03	57,743
FOSTER, DANIEL W.....	METABOLOGY.....	5T01 CA05200-10	34,911
GOLDSTEIN, JOSEPH L.....	MEDICAL GENETICS.....	5T22 GM00021-03	27,699
JOHNSON, ROBERT L. JR.....	CARDIOPULMONARY PHYSIOLOGY AND PATHOPHYSIOLOGY.....	5T01 HL05812-08	192,444
KOKKO, JUHA P.....	BIOCHEMICAL ORIENTATION OF CARDIOVASCULAR INVESTIGATION.....	5T01 HL05469-16	118,082
MACDONALD, PAUL C.....	PHYSIOLOGY OF REPRODUCTION.....	5T01 HD00256-08	116,822
MC CANN, SAMUEL M.....	NEUROENDOCRINOLOGY.....	1T32 HD07062-01	84,971
NELSON, JOHN D.....	PEDIATRIC INFECTIOUS DISEASE AND IMMUNOLOGY.....	5T01 AI00337-10	55,321
STREILEIN, J WAYNE.....	CANCER IMMUNOLOGY.....	5T32 CA09082-02	149,247
WEISS, GEORGE B.....	PHARMACOLOGY.....	5T32 GM07062-02	31,612
ZIFF, MORRIS.....	RHEUMATOLOGY.....	5T32 AM07055-02	19,529
ORGANIZATION TOTAL	12	912,675	
<b>GALVESTON</b>			
UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON		ZIP CODE 77550	
BOWMAN, BARBARA H.....	GENETICS—MECHANISMS AND REGULATION.....	5T32 GM07204-02	39,335
HILD, WALTHER J.....	ANATOMY.....	5T01 GM00459-16	17,415
REMMERS, JOHN E.....	RESPIRATORY DISEASES.....	1T32 HL07217-01	39,254
ORGANIZATION TOTAL	3	96,004	
<b>HOUSTON</b>			
BAYLOR COLLEGE OF MEDICINE		ZIP CODE 77025	
BUSCH, HARRIS.....	CANCER CHEMOTHERAPY.....	5T01 CA05154-14	125,507
CASKEY, CHARLES T.....	MEDICAL GENETICS.....	5T22 GM00081-03	40,938
DE BAKEY, MICHAEL E.....	ACADEMIC SURGERY.....	5T01 GM01965-08	44,648
HORNING, EVAN C.....	ANALYTICAL METHODS FOR HUMAN STUDIES.....	5T01 GM02055-08	36,520
KNOX, JOHN M.....	VENEREOLOGY.....	5T01 AI00462-03	39,788
LANE, MONTAGUE.....	CLINICAL CANCER—MEDICAL.....	5T12 CA08017-10	215,375
MARTIN, R RUSSELL.....	INFECTIOUS DISEASES.....	5T01 AI00446-05	44,456
O'MALLEY, BERT W.....	REPRODUCTIVE BIOLOGY; REGULATORY MECHANISMS.....	5T01 HD00444-03	68,014
SCHWARTZ, ARNOLD.....	CARDIOVASCULAR BIOLOGY.....	1T32 HL07219-01	96,558
TRENTIN, JOHN J.....	CANCER.....	5T01 CA05021-20	81,503
VON NOORDEN, GUNTER K.....	VISUAL SCIENCES.....	5T32 EY07001-02	36,097
WILLIAMS, ROBERT P.....	PUBLIC HEALTH AND MEDICAL LABORATORY MICROBIOLOGY.....	3T01 AI00374-05S2	667
ORGANIZATION TOTAL	12	830,071	

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>TEXAS—Con.</b>			
<b>RICE UNIVERSITY ZIP CODE 77001</b>			
STEWART, CHARLES R .....	DEVELOPMENTAL GENETICS.....	5T01 GM02221-02	35,361
STEWART, CHARLES R .....	DEVELOPMENTAL GENETICS.....	5T01 GM02221-03	46,935
ORGANIZATION TOTAL 2	82,296		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON ZIP CODE 77025</b>			
LEVY, BARNET M .....	EXPERIMENTAL PERIODONTOLOGY/IMMUNOLOGY; BIOCHEMISTRY .....	5T22 DE00035-03	51,721
LEVY, BARNET M .....	EXPERIMENTAL PERIODONTOLOGY/IMMUNOLOGY; BIOCHEMISTRY .....	1T32 DE07029-01	82,444
SHAW, MARGERY W .....	MEDICAL GENETICS .....	5T22 GM00143-03	55,319
SHAW, MARGERY W .....	MEDICAL GENETICS .....	5T01 GM02237-03	41,443
SPEHLING, HARRY G .....	SENSORY NEURAL SCIENCES .....	5T32 EY07024-02	65,885
ORGANIZATION TOTAL 5	296,812		
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS SYSTEM CANCER CENTER ZIP CODE 77025</b>			
FREIREICH, EMIL J .....	CLINICAL PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS .....	1T32 CA09189-01	206,258
SHULLENBERGER, C C .....	CANCER CHEMOTHERAPY .....	5T32 CA09163-02	160,580
VAN EYS, JAN .....	PEDIATRIC HEMATOLOGY-ONCOLOGY .....	5T32 CA09070-02	55,433
ORGANIZATION TOTAL 3	422,271		
<b>SAN ANTONIO</b>			
<b>UNIVERSITY OF TEXAS SYSTEM—UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO ZIP CODE 78204</b>			
JOHANSON, WALDEMAR G, JR .....	LUNG DISEASES-MULTIDISCIPLINARY .....	1T32 HL07221-01	32,696
MC GUIRE, WILLIAM L .....	MECHANISMS OF BREAST CANCER GROWTH AND REGRESSION.....	5T32 CA09042-02	36,986
MC NAY, JOHN L, JR .....	CLINICAL PHARMACOLOGY .....	5T32 GM07014-02	60,361
STEIN, JAY H .....	ACADEMIC NEPHROLOGY .....	5T32 AM07103-02	58,533
ORGANIZATION TOTAL 4	188,576		
STATE TOTAL 47	3,166,490		
<b>UTAH</b>			
<b>LOGAN</b>			
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UTAH STATE UNIVERSITY ZIP CODE 84322</b>			
GARDNER, ELDON J .....	GENETICS.....	5T01 GM01029-14	32,877
ORGANIZATION TOTAL 1	32,877		
<b>SALT LAKE CITY</b>			
<b>LATTER-DAY SAINTS HOSPITAL SYSTEM—LATTER-DAY SAINTS HOSPITAL ZIP CODE 84143</b>			
WARNER, HOMER R .....	BIO MEDICAL ENGINEERING.....	5T01 HL05521-14	46,649
ORGANIZATION TOTAL 1	46,649		
<b>UTAH STATE HIGHER EDUCATION SYSTEM—UNIVERSITY OF UTAH ZIP CODE 84112</b>			
BROOM, ARTHUR D .....	CANCER CHEMOTHERAPY .....	5T01 CA05209-09	18,649
CARTWRIGHT, GEORGE E .....	HEMATOLOGY .....	5T32 AM07115-02	39,725
DETHLEFSEN, LYLE A .....	RADIATION BIOLOGY AND EXPERIMENTAL ONCOLOGY .....	5T32 CA09097-02	39,177
EYZAGUIRRE, CARLOS E .....	NEUROPHYSIOLOGY .....	5T01 NS05244-17	20,992
GIBB, JAMES W .....	BIOCHEMICAL TOXICOLOGY .....	5T32 GM07265-02	34,867
GLASGOW, LOWELL A .....	INFECTIOUS DISEASES .....	1T32 AI07011-01	59,031
KUIDA, HIROSHI .....	CLINICAL CARDIOLOGY .....	5T01 HL05967-04	83,395
STEVENS, WALTER .....	ANATOMY .....	5T01 GM00958-15	29,841
WOODBURY, DIXON M .....	PHARMACOLOGY .....	5T01 GM00153-18	158,439
ORGANIZATION TOTAL 9	484,116		



**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director		General area of training	Grant number	Dollars
<b>UTAH—Con.</b>				
STATE TOTAL	11	563,642		
<b>VERMONT</b>				
<b>BURLINGTON</b>				
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE		ZIP CODE 05401		
ALPERT, NORMAN R.		PHYSIOLOGY AND BIOPHYSICS	3T01 GM00439-15S1	4,136
ALPERT, NORMAN R.		PHYSIOLOGY AND BIOPHYSICS	5T01 GM00439-16	36,264
CRAIGHEAD, JOHN E.		RESPIRATORY DISEASES	1T32 HL07206-01	90,629
GREEN, GARETH M.		RESPIRATORY DISEASES	5T01 HL05990-04	50,050
PARSONS, RODNEY L.		CARDIOVASOLOGY—MULTIDISCIPLINARY	5T32 HL07073-02	68,504
TABAKIN, BURTON S.		MEDICAL CARDIOLOGY—CARDIOPULMONARY PHYSIOLOGY	5T01 HL05286-17	97,643
ORGANIZATION TOTAL	6	347,226		
STATE TOTAL	6	347,226		
<b>VIRGINIA</b>				
<b>CHARLOTTESVILLE</b>				
UNIVERSITY OF VIRGINIA		ZIP CODE 22903		
ATTINGER, ERNST O.		BIOMEDICAL ENGINEERING	5T01 GM01919-08	89,762
BASS, NORMAN H.		DEVELOPMENTAL NEUROLOGY	1T32 NS07013-01A1	61,248
BERNE, ROBERT M.		CARDIOVASCULAR PHYSIOLOGY	5T01 HL05815-09	159,182
DAVIS, JOHN S., IV.		IMMUNOPATHOLOGY OF RHEUMATIC DISEASES	1T32 AM07156-01	8,775
JOHNS, THOMAS R., II.		NEUROLOGY	5T01 NS05120-21	132,579
KADNER, ROBERT J.		GENETIC CONTROL OF BIOLOGICAL REGULATORY SYSTEMS	5T32 GM07082-02	33,168
KOMP, DIANE M.		PEDIATRIC ONCOLOGY	1T32 CA09147-01	42,016
KONIGSBERG, IRWIN R.		DEVELOPMENTAL BIOLOGY	5T01 HD00430-03	46,242
LANGMAN, JAN		CRANIOFACIAL DEVELOPMENT	5T32 DE07037-02	82,037
LARNER, JOSEPH.		PHARMACOLOGY	3T01 GM02139-05S1	8,831
LARNER, JOSEPH.		PHARMACOLOGY	5T32 GM07055-02	47,798
LAWLESS, KENNETH R.		DENTISTRY—MATERIALS	5T01 DE00115-14	33,210
LAWLESS, KENNETH R.		CHEMICAL AND PHYSICAL PROPERTIES OF DENTAL MATERIALS	1T32 DE07046-01	41,974
MANDELL, GERALD L.		VENEREAL DISEASES	5T22 AI00069-03	17,550
MILLER, OSCAR L., JR.		GENETICS	5T01 GM01450-08	55,504
MURAD, FERID		CLINICAL PHARMACOLOGY	5T22 GM00010-03	58,403
THOMPSON, THOMAS E.		MEMBRANE AND MACROMOLECULAR STRUCTURE	5T32 GM07294-02	55,108
WAGNER, ROBERT R.		CANCER RESEARCH—MOLECULAR BIOLOGY	1T32 CA09109-01	91,904
ORGANIZATION TOTAL	18	1,065,291		
<b>RICHMOND</b>				
VIRGINIA COMMONWEALTH UNIVERSITY		ZIP CODE 23284		
BRADLEY, S. GAYLEN		INFECTION AND IMMUNITY	5T01 AI00382-06	80,580
DEWEY, WILLIAM L.		PHARMACOLOGY AND RELATED DISCIPLINES	5T32 GM07111-02	44,646
FARRAR, JOHN T.		DIGESTIVE AND LIVER DISEASES	1T32 AM07150-01	10,148
GOLDMAN, I. DAVID.		CARDIOVASOLOGY—MULTIDISCIPLINARY	5T32 HL07110-02	83,260
KENNEDY, JAMES F.		BASIC SCIENCES	5T01 DE00008-18	51,972
KING, E. RICHARD		CLINICAL CANCER—MULTIDISCIPLINARY	5T12 CA08123-11	127,535
WATKINS, JIMMIE P.		DENTISTRY—PAIN CONTROL	5T22 DE00116-03	77,398
ORGANIZATION TOTAL	7	475,639		
STATE TOTAL	25	1,540,930		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>WASHINGTON</b>			
<b>PULLMAN</b>			
<b>WASHINGTON STATE UNIVERSITY</b>	<b>ZIP CODE 99163</b>		
KIRSCHNER, LEONARD B.	ZOOPHYSIOLOGY	5T01 GM01276-13	51,953
MC GUIRE, TRAVIS C.	IMMUNOLOGY	1T32 AI07025-01	71,295
PADGETT, GEORGE A.	COMPARATIVE GENETICS-MEDICAL	5T32 GM07125-02	32,590
PADGETT, GEORGE A.	PATHOBIOLOGY	5T32 GM07160-02	56,010
ORGANIZATION TOTAL	4	211,848	
<b>SEATTLE</b>			
<b>UNIVERSITY OF WASHINGTON</b>	<b>ZIP CODE 98195</b>		
ALEXANDER, E RUSSELL	VIROLOGY AND RICKETTSIOLOGY	5T01 AI00206-15	68,281
BENDITT, EARL P.	EXPERIMENTAL PATHOLOGY	5T01 GM00100-19	120,719
BONICA, JOHN J.	ANESTHESIOLOGY	5T01 GM01160-14	112,041
BUTLER, JOHN	RESPIRATORY MEDICINE	5T01 HL05819-09	116,796
CURRERI, P WILLIAM	TRAUMA AND BURNS	5T32 GM07037-02	70,040
DE ROUEN, TIMOTHY A.	CARDIOVASCULAR BIOSTATISTICS	1T32 HL07183-01	43,987
EVERETT, NEWTON B.	ANATOMY	5T01 GM00136-20	85,824
FEIGL, ERIC O.	CARDIOVASOLOGY-MULTIDISCIPLINARY	5T32 HL07090-02	106,161
FINCH, CLEMENT A.	HEMATOLOGY	5T32 HL07093-02	75,452
FOX, JOHN P.	EPIDEMIOLOGY	5T01 GM01935-09	8,266
GALE, JAMES L.	EPIDEMIOLOGY-EYE DISEASES	5T32 EY07017-02	59,837
GORDON, MILTON P.	MOLECULAR AND CELLULAR BIOLOGY	5T32 GM07270-02	71,315
HEINRICH, WILLIAM L.	ENDOCRINOLOGY OF REPRODUCTION	5T01 HD00272-11	149,311
HOLMES, KING K.	VENEREAL DISEASE	5T22 AI00191-03	52,632
HORITA, A.	PHARMACOLOGY TOXICOLOGY	5T01 GM00109-18	85,854
JACKSON, KENNETH L.	RADIOLOGICAL SCIENCES	1T32 CA09081-01	43,901
KALINA, ROBERT E.	VISION RESEARCH-MULTIDISCIPLINARY	5T32 EY07013-02	68,509
KAPLAN, ALEX	BIOCHEMISTRY-CLINICAL CHEMISTRY	5T01 GM00776-13	75,947
KELLER, PATRICIA J.	ORAL BIOLOGY-SALIVARY SECRETIONS	5T32 DE07023-02	69,000
KENNY, GEORGE E.	IMMUNOLOGY OF VENEREAL DISEASE AGENTS	5T22 AI00125-03	21,240
KLEBANOFF, SEYMOUR J.	HOST DEFENSE IN ALLERGY AND INFECTIOUS DISEASE	1T32 AI07044-01	40,019
KLEBANOFF, SEYMOUR J.	MEDICAL SCIENTIST	5T05 GM02103-07	49,077
KLEBANOFF, SEYMOUR J.	MEDICAL SCIENTIST	5T32 GM07266-02	60,518
LAGUNOFF, DAVID	BASIC PATHOBIOLOGY	5T32 GM07187-02	67,818
LEE, JOHN A.	CANCER EPIDEMIOLOGY AND BIOSTATISTICS	5T32 CA09168-02	90,716
MANNIK, MART	RHEUMATOLOGY	5T32 AM07108-02	40,241
MOFFETT, BENJAMIN C, JR.	INTERDISCIPLINARY CRANIOFACIAL RESEARCH	5T22 DE00073-03	147,472
MOTULSKY, ARNO G.	MEDICAL GENETICS	5T22 GM00197-03	48,467
NEURATH, HANS.	BIOCHEMISTRY	3T01 GM00052-19S1	26,841
NEURATH, HANS.	BIOCHEMISTRY	5T01 GM00052-20	165,879
ODLAND, GEORGE F.	DERMATOLOGY	5T32 AM07019-02	39,057
PAGE, ROY C.	PERIODONTAL DISEASES	5T22 DE00026-03	82,535
PAGE, ROY C.	PERIODONTAL DISEASES AND CHRONIC INFLAMMATION	1T32 DE07063-01	21,217
PARKER, ROBERT G.	THERAPEUTIC RADIOLOGY, PHYSICS & BIOLOGY	5T01 CA05198-10	175,525
PATTON, HARRY D.	PHYSIOLOGY	3T01 GM00260-17S1	1,225
PATTON, HARRY D.	PHYSIOLOGY	5T01 GM00260-18	141,509
PATTON, HARRY D.	SYSTEMS AND INTEGRATIVE BIOLOGY	5T32 GM07108-02	46,954
PATTON, HARRY D.	NEUROPHYSIOLOGY	5T01 NS05082-21	152,874
ROMAN, HERSCHEL L.	GENETICS-GENERAL AND MEDICAL	5T01 GM00182-18	171,280
RUSHMER, ROBERT F.	CARDIOVASCULAR PHYSIOLOGY	5T01 HL05147-19	132,876
TELLER, DAVIDA Y.	VISUAL SCIENCES	1T32 EY07031-01	33,435
THOMAS, E DONNALL	ONCOLOGY	5T01 CA05231-07	156,159
THOMPSON, DONOVAN J.	BIOMETRY	3T01 GM01269-12S1	4,536
THOMPSON, DONOVAN J.	BIOMETRY	5T01 GM01269-13	74,919
VOLWILER, WADE	GASTROENTEROLOGY	5T32 AM07113-02	18,921
WARD, ARTHUR A, JR.	NEUROSURGERY	5T01 NS05211-16	3,322

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>WASHINGTON—Con.</b>			
WEDGWOOD, RALPH J .....	ABNORMAL BIOLOGIC DEVELOPMENT AND MENTAL RETARDATION .....	5T01 HD00404-03	83,832
WHITELEY, ARTHUR H .....	DEVELOPMENTAL BIOLOGY-INTERDISCIPLINARY .....	5T01 HD00266-08	95,085
ORGANIZATION TOTAL 48	3,677,222		
STATE TOTAL 52	3,889,070		
<b>WEST VIRGINIA</b>			
<b>MORGANTOWN</b>			
WEST VIRGINIA UNIVERSITY	ZIP CODE 26506		
BURRELL, ROBERT G .....	PULMONARY IMMUNOLOGY .....	1T32 HL07170-01	34,588
FLEMING, WILLIAM W .....	PHARMACOLOGY .....	5T01 GM00076-18	11,880
FLEMING, WILLIAM W .....	PHARMACOLOGICAL SCIENCES .....	5T32 GM07039-02	53,160
ORGANIZATION TOTAL 3	99,628		
STATE TOTAL 3	99,628		
<b>WISCONSIN</b>			
<b>MADISON</b>			
UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON	ZIP CODE 53706		
ALLEN, JAMES R .....	PATHOBIOLOGY .....	5T32 GM07194-02	69,545
AUERBACH, ROBERT .....	DEVELOPMENTAL BIOLOGY .....	5T01 HD00409-05	71,726
BACH, FRITZ H .....	CELLULAR AND TUMOR IMMUNITY .....	1T32 CA09106-01	77,765
BASS, PAUL .....	PHARMACOLOGY AND TOXICOLOGY .....	5T32 GM07107-02	42,238
BEINERT, HELMUT .....	ENZYMOLGY-MAMMALIAN METABOLISM .....	5T32 AM07049-02	26,705
BURRIS, ROBERT H .....	BIOCHEMISTRY .....	5T01 GM00236-17	35,518
CALDWELL, WILLIAM L .....	CANCER-RADIOTHERAPY, PHYSICS, AND BIOLOGY .....	5T01 CA05104-14	14,537
DAVIS, MATTHEW D .....	OPHTHALMOLOGY .....	5T01 EY00039-12	55,463
GOODFRIEND, THEODORE L .....	MEDICAL SCIENCES .....	5T05 GM01932-08	8,147
HANSON, RICHARD S .....	MICROBIOLOGY .....	3T01 GM00686-15S1	4,698
HARPER, ALFRED E .....	NUTRITIONAL SCIENCES .....	5T01 GM02134-06	8,228
HAUSER, ROBERT M .....	METHODOLOGY IN SOCIOLOGY .....	5T01 GM01526-11	16,172
HIND, JOSEPH E .....	SENSORY PHYSIOLOGY AND BIOPHYSICS .....	5T32 NS07026-02	181,304
HINSBILL, RONALD D .....	ENVIRONMENTAL TOXICOLOGY .....	5T32 ES07015-02	122,692
KUMIN, CALVIN M .....	CLINICAL INFECTIOUS DISEASE-BACTERIOLOGY AND MYCOLOGY .....	5T01 AI00432-05	39,526
LOEB, MARTIN B .....	AGING .....	5T01 AG00016-08	120,505
MILLER, ELIZABETH C .....	CARCINOGENESIS .....	5T32 CA09020-02	103,724
MUELLER, GERALD C .....	TUMOR BIOLOGY .....	1T32 CA09230-01	91,990
PITOT, HENRY C .....	EXPERIMENTAL ONCOLOGY .....	5T32 CA09135-02	241,380
RANKIN, JOHN .....	PULMONARY MEDICINE .....	5T32 HL07016-02	101,791
ROWND, ROBERT H .....	MOLECULAR BIOLOGY .....	3T01 GM01874-07S1	13,608
ROWND, ROBERT H .....	MOLECULAR BIOLOGY .....	5T01 GM01874-08	89,876
SMITH, DONALD W .....	MEDICAL MICROBIOLOGY AND IMMUNOLOGY .....	5T01 AI00451-05	63,151
SUSMAN, MILLARD .....	GENETICS .....	5T01 GM00398-17	11,145
SUSMAN, MILLARD .....	MEDICAL GENETICS .....	5T32 GM07131-02	7,584
SUSMAN, MILLARD .....	GENETICS .....	5T32 GM07133-02	226,844
SUTTIE, JOHN W .....	NUTRITION .....	5T32 DE07031-02	101,768
SWEET, JAMES A .....	DEMOGRAPHY AND ECOLOGY .....	5T32 HD07014-02	117,122
TEMIN, HOWARD M .....	VIRAL ONCOLOGY .....	5T32 CA09075-02	151,540
WILSON, JOE B .....	CELLULAR AND MOLECULAR BIOLOGY .....	5T32 GM07215-02	577,811
ORGANIZATION TOTAL 30	2,794,103		

**Table 3.—NIH Training Grants, by Area, Organization, and Program Director, Fiscal Year 1976 and Transition Quarter—Continued**

Program director	General area of training	Grant number	Dollars
<b>WISCONSIN—Con.</b>			
<b>MILWAUKEE</b>			
MEDICAL COLLEGE OF WISCONSIN	ZIP CODE 53233		
ASTER, RICHARD H .....	HEMATOLOGY AND BLOOD BANKING SCIENCES .....	1T32 HL07209-01	38,992
EDELHAUSER, HENRY F .....	EYE PHYSIOLOGY AND BIOCHEMISTRY .....	5T32 EY07016-02	27,289
FINN, JORDAN N .....	ALLERGIC DISEASES .....	5T32 AI07006-02	37,936
LEMANN, JACOB, JR .....	RENAL PHYSIOLOGY, RENAL DISEASE AND HYPERTENSION .....	5T01 HL05949-03	46,724
RYTEL, MICHAEL W .....	INFECTIOUS DISEASES .....	5T01 AI00455-03	25,507
SCHULTZ, RICHARD O .....	OPHTHALMOLOGY .....	5T01 EY00045-09	42,917
ORGANIZATION TOTAL	6	219,365	
STATE TOTAL	36	3,013,468	
<b>PUERTO RICO</b>			
<b>SAN JUAN</b>			
UNIVERSITY OF PUERTO RICO SYSTEM—UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS	ZIP CODE 00936		
PICO, GUILLERMO .....	OPHTHALMOLOGY .....	5T01 EY00019-20	55,564
ORGANIZATION TOTAL	1	55,564	
STATE TOTAL	1	55,564	





**Table 4.—Cancer Research Facilities Construction Grants,  
by Area, Organization, and Responsible Official,  
Fiscal Year 1976 and Transition Quarter**

Responsible official	Construction program	Grant number	Dollars
TOTAL, 18 GRANTS.....			23,500,000
<b>HAWAII</b>			
<b>HONOLULU</b>			
UNIVERSITY OF HAWAII SYSTEM—UNIVERSITY OF HAWAII AT MANOA ZIP CODE 96822			
PIETTE, LAWRENCE H.....	NEW CANCER FACILITY.....	1C06 CA18236-01	2,635,305
ORGANIZATION TOTAL	1	2,635,305	
STATE TOTAL	1	2,635,305	
<b>ILLINOIS</b>			
<b>CHICAGO</b>			
NORTHWESTERN UNIVERSITY ZIP CODE 60611			
BERLIN, NATHANIEL I.....	CANCER FACILITY CONSTRUCTION.....	1C06 CA19774-01	2,206,737
ORGANIZATION TOTAL	1	2,206,737	
STATE TOTAL	1	2,206,737	
<b>MARYLAND</b>			
<b>BALTIMORE</b>			
JOHNS HOPKINS UNIVERSITY ZIP CODE 21210			
OWENS, ALBERT H. JR.....	CANCER FACILITY.....	3C06 CA13798-01A1S1	2,347,625
PRICE, DAVID E.....	REMODELING CANCER RESEARCH FACILITY.....	1C06 CA19803-01	463,774
ORGANIZATION TOTAL	2	2,811,399	
STATE TOTAL	2	2,811,399	
<b>MASSACHUSETTS</b>			
<b>BOSTON</b>			
SIDNEY FARDER CANCER INSTITUTE ZIP CODE 02115			
FREI, EMIL, III.....	NEW CANCER FACILITY.....	3C06 CA13565-01A1S2	6,547,962
ORGANIZATION TOTAL	1	6,547,962	

NOTE: For comments on organizations, see Appendix.

**Table 4.—Cancer Research Facilities Construction Grants,  
by Area, Organization, and Responsible Official,  
Fiscal Year 1976 and Transition Quarter—Continued**

Responsible official	Construction program	Grant Number	Dollars
<b>MASSACHUSETTS—Con.</b>			
<b>CAMBRIDGE</b>			
<b>HARVARD UNIVERSITY      ZIP CODE 02130</b>			
PTASHNE, MARK S.....	CANCER FACILITY SUPPORT.....	1C06 CA18768-01	284,775
ORGANIZATION TOTAL      1	284,775		
<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY      ZIP CODE 02139</b>			
PORTNOY, HARRY P.....	CENTER FOR CANCER RESEARCH.....	1C06 CA19129-01	340,973
ORGANIZATION TOTAL      1	340,973		
STATE TOTAL      3	7,173,710		
<b>MICHIGAN</b>			
<b>ANN ARBOR</b>			
<b>UNIVERSITY OF MICHIGAN      ZIP CODE 48104</b>			
NEIDHARDT, FREDERICK C.....	CANCER FACILITY CONSTRUCTION.....	1C06 CA19984-01	255,702
ORGANIZATION TOTAL      1	255,702		
STATE TOTAL      1	255,702		
<b>NEW YORK</b>			
<b>NEW YORK</b>			
<b>MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES      ZIP CODE 10021</b>			
MC LOUGHLIN, WILLIAM J.....	CANCER FACILITY.....	3C06 CA14628-01S1	268,448
ORGANIZATION TOTAL      1	268,448		
<b>NEW YORK UNIVERSITY      ZIP CODE 10003</b>			
ARAKELIAN, PETER.....	EXPANDING & REMODELING OF EXISTING CANCER FACILITY.....	3C06 CA16241-01S1	2,649,693
ORGANIZATION TOTAL      1	2,649,693		
<b>ROCKEFELLER UNIVERSITY      ZIP CODE 10021</b>			
DARNELL, JAMES E, JR.....	CANCER RESEARCH FACILITY.....	1C06 CA18115-01	89,526
ORGANIZATION TOTAL      1	89,526		
<b>SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH      ZIP CODE 10021</b>			
MC LOUGHLIN, WILLIAM J.....	REMODELING CANCER FACILITY.....	1C06 CA19132-01	81,753
ORGANIZATION TOTAL      1	81,753		
<b>YESHIVA UNIVERSITY      ZIP CODE 10033</b>			
FRIEDMAN, EPHRAIM.....	CANCER FACILITY.....	3C06 CA15023-01S1	1,196,617
ORGANIZATION TOTAL      1	1,196,617		
<b>ROCHESTER</b>			
<b>UNIVERSITY OF ROCHESTER      ZIP CODE 14627</b>			
MC BRIDE, DAVID A.....	CANCER FACILITY CONSTRUCTION.....	1C06 CA18841-01	700,358
ORGANIZATION TOTAL      1	700,358		

**Table 4.—Cancer Research Facilities Construction Grants,  
by Area, Organization, and Responsible Official,  
Fiscal Year 1976 and Transition Quarter—Continued**

Responsible official	Construction program	Grant Number	Dollars
<b>NEW YORK—Con.</b>			
<b>STONY BROOK</b>			
STATE UNIVERSITY OF NEW YORK AT STONY BROOK		ZIP CODE 11794	
KATES, JOSEPH.....	CANCER RESEARCH FACILITY CONSTRUCTION.....	1C06 CA19001-01	206,495
ORGANIZATION TOTAL	1 206,495		
STATE TOTAL	7 5,192,890		
<b>WASHINGTON</b>			
<b>SEATTLE</b>			
FRED HUTCHINSON CANCER RESEARCH CENTER		ZIP CODE 98104	
HUTCHINSON, WILLIAM B.....	CANCER FACILITY .....	3C06 CA14501-01S1	1,977,257
ORGANIZATION TOTAL	1 1,977,257		
STATE TOTAL	1 1,977,257		
<b>WISCONSIN</b>			
<b>MADISON</b>			
UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN—MADISON		ZIP CODE 53706	
PITOT, HENRY C.....	REMODELING CANCER FACILITY .....	1C06 CA20072-01	380,000
RUSCH, HAROLD P.....	CANCER FACILITY CONSTRUCTION .....	1C06 CA19317-01	867,000
ORGANIZATION TOTAL	2 1,247,000		
STATE TOTAL	2 1,247,000		





**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1976 and Transition Quarter**

	Responsible official	Grant No.	Dollars
TOTAL, 42 GRANTS.....			714,988
<b>ALABAMA</b>			
<b>BIRMINGHAM</b>			
UNIVERSITY OF ALABAMA IN BIRMINGHAM		ZIP CODE 35204	
MUELLER, DOROTHY.....		5G08 LM02448-02	10,539
ORGANIZATION TOTAL	1	10,539	
STATE TOTAL	1	10,539	
<b>CALIFORNIA</b>			
<b>BERKELEY</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT BERKELEY		ZIP CODE 94720	
DOUGHERTY, RICHARD M.....		5G08 LM02143-03	22,786
ORGANIZATION TOTAL	1	22,786	
<b>CARMICHAEL</b>			
MERCY SAN JUAN HOSPITAL		ZIP CODE 95000	
FERRIGNO, PAT.....		1G07 LM02853-01	2,950
ORGANIZATION TOTAL	1	2,950	
<b>LOS ANGELES</b>			
UNIVERSITY OF CALIFORNIA SYSTEM—UNIVERSITY OF CALIFORNIA AT LOS ANGELES		ZIP CODE 90024	
CHASE, MICHAEL H.....		5G08 LM02307-02	35,490
DARLING, LOUISE.....		1G08 LM02593-01	47,641
DARLING, LOUISE.....		1G08 LM02772-01	17,463
ORGANIZATION TOTAL	3	100,594	
<b>TORRANCE</b>			
LITTLE COMPANY OF MARY HOSPITAL		ZIP CODE 90503	
BEILKE, THEODORE.....		1G07 LM02781-01	2,279
ORGANIZATION TOTAL	1	2,279	
STATE TOTAL	6	128,609	

NOTE: For comments on organizations, see Appendix.

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1976 and Transition Quarter—Continued**

Responsible official			Grant No.	Dollars
<b>COLORADO</b>				
<b>DENVER</b>				
NATIONAL ASTHMA CENTER			ZIP CODE 80204	
AUSTIN, DAVID J.....			1G07 LM02646-01A1	3,000
ORGANIZATION TOTAL	1	3,000		
STATE TOTAL	1	3,000		
<b>DIST OF COL</b>				
<b>WASHINGTON</b>				
CATHOLIC UNIVERSITY OF AMERICA			ZIP CODE 20017	
WAGNER, LLOYD F.....			5G08 LM01738-02	20,500
ORGANIZATION TOTAL	1	20,500		
STATE TOTAL	1	20,500		
<b>HAWAII</b>				
<b>HONOLULU</b>				
HAWAII MEDICAL LIBRARY			ZIP CODE 96813	
WINTERS, CLYDE J.....			5G04 LM02235-03	44,834
ORGANIZATION TOTAL	1	44,834		
STATE TOTAL	1	44,834		
<b>ILLINOIS</b>				
<b>CHICAGO</b>				
JOHN CRERAR LIBRARY			ZIP CODE 60616	
PLETZKE, CHESTER J.....			3G04 LM02000-03S1	15,888
ORGANIZATION TOTAL	1	15,888		
<b>STERLING</b>				
COMMUNITY GENERAL HOSPITAL			ZIP CODE 61001	
ANDERSON, EDWARD A.....			1G07 LM02932-01	2,667
ORGANIZATION TOTAL	1	2,667		
<b>WINFIELD</b>				
CENTRAL DU PAGE HOSPITAL			ZIP CODE 60190	
ROWE, DOROTHY B.....			1G07 LM02832-01	3,000
ORGANIZATION TOTAL	1	3,000		
STATE TOTAL	3	21,555		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1976 and Transition Quarter—Continued**

	Responsible official		Grant No.	Dollars
<b>INDIANA</b>				
<b>INDIANAPOLIS</b>				
INDIANA UNIVERSITY SYSTEM—INDIANA UNIVERSITY AT INDIANAPOLIS		ZIP CODE 46202		
LAATZ, MARY J.....			3G04 LM02016-03S1	16,673
ORGANIZATION TOTAL	1	16,673		
STATE TOTAL	1	16,673		
<b>IOWA</b>				
<b>IOWA CITY</b>				
UNIVERSITY OF IOWA		ZIP CODE 52242		
CURRY, DAVID S.....			5G04 LM02081-03	39,256
ORGANIZATION TOTAL	1	39,256		
<b>SIOUX CITY</b>				
ST. JOSEPH MERCY HOSPITAL		ZIP CODE 51104		
PELCHAT, EUGENE J.....			1G08 LM02626-01	50,000
ORGANIZATION TOTAL	1	50,000		
ST. LUKE'S MEDICAL CENTER		ZIP CODE 51104		
KNIGHT, BARBARA L.....			1G08 LM02795-01	3,910
ORGANIZATION TOTAL	1	3,910		
STATE TOTAL	3	93,166		
<b>KANSAS</b>				
<b>HUTCHINSON</b>				
HUTCHINSON HOSPITAL CORPORATION		ZIP CODE 67501		
DIAMOND, PATRICIA.....			1G07 LM02674-01	2,500
ORGANIZATION TOTAL	1	2,500		
STATE TOTAL	1	2,500		
<b>KENTUCKY</b>				
<b>LEXINGTON</b>				
UNIVERSITY OF KENTUCKY		ZIP CODE 40506		
STITH, JANET.....			5G08 LM02520-02	42,179
ORGANIZATION TOTAL	1	42,179		
STATE TOTAL	1	42,179		



**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1976 and Transition Quarter—Continued**

Responsible official			Grant No.	Dollars
LOUISIANA				
LAFAYETTE				
LOUISIANA HEALTH AND HUMAN RESOURCES ADMINISTRATION-LAFAYETTE CHARITY HOSPITAL			ZIP CODE 70001	
VOORHIES, DANIEL.....			5G08 LM02363-02	14,700
ORGANIZATION TOTAL	1	14,700		
STATE TOTAL	1	14,700		
MAINE				
AUGUSTA				
AUGUSTA GENERAL HOSPITAL			ZIP CODE 04330	
GOODWIN, CLAIRE K.....			5G08 LM02334-02	24,194
ORGANIZATION TOTAL	1	24,194		
STATE TOTAL	1	24,194		
MARYLAND				
BALTIMORE				
FRANKLIN SQUARE HOSPITAL			ZIP CODE 21237	
HOPKINS, JOAN M.....			5G08 LM02003-03	3,085
ORGANIZATION TOTAL	1	3,085		
JOHNS HOPKINS UNIVERSITY			ZIP CODE 21210	
POLACSEK, RICHARD A.....			5G08 LM02445-02	26,111
ORGANIZATION TOTAL	1	26,111		
COLUMBIA				
HOWARD COUNTY GENERAL HOSPITAL			ZIP CODE 21044	
HUSSEY, THEODORE A.....			1G07 LM02762-01	3,250
ORGANIZATION TOTAL	1	3,250		
SILVER SPRING				
HOLY CROSS HOSPITAL OF SILVER SPRING			ZIP CODE 20910	
MARIE, SISTER HELEN.....			1G07 LM02666-01	2,300
ORGANIZATION TOTAL	1	2,300		
STATE TOTAL	4	34,746		
MICHIGAN				
KALAMAZOO				
MICHIGAN STATE DEPARTMENT OF MENTAL HEALTH-KALAMAZOO STATE HOSPITAL			ZIP CODE 49001	
GRAHAM, CAROL.....			1G07 LM02820-01	1,626
ORGANIZATION TOTAL	1	1,626		
STATE TOTAL	1	1,626		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1976 and Transition Quarter—Continued**

Responsible official			Grant No.	Dollars
<b>MINNESOTA</b>				
<b>CANBY</b>				
CANBY COMMUNITY HOSPITAL DISTRICT ONE			ZIP CODE 56220	
RAMER, LINDA .....			1G07 LM02923-01	2,850
ORGANIZATION TOTAL	1	2,850		
<b>DULUTH</b>				
UNIVERSITY OF MINNESOTA			ZIP CODE 55012	
HAFNER, ARTHUR W .....			5G08 LM02135-03	6,391
ORGANIZATION TOTAL	1	6,391		
<b>MINNEAPOLIS</b>				
UNIVERSITY OF MINNESOTA			ZIP CODE 55455	
BRUDVIG, GLENN L .....			3G04 LM01965-03S1	17,733
ORGANIZATION TOTAL	1	17,733		
STATE TOTAL	3	26,974		
<b>MONTANA</b>				
<b>HELENA</b>				
SHODAIR CRIPPLED CHILDREN'S HOSPITAL			ZIP CODE 59601	
STEEN, RUSSELL .....			1G07 LM02721-01	1,575
ORGANIZATION TOTAL	1	1,575		
STATE TOTAL	1	1,575		
<b>NEBRASKA</b>				
<b>OMAHA</b>				
UNIVERSITY OF NEBRASKA SYSTEM—UNIVERSITY OF NEBRASKA MEDICAL CENTER			ZIP CODE 68105	
BENSCHOTER, REBA A .....			5G08 LM02501-02	48,816
BISHOP, DAVID .....			5G04 LM02080-03	32,600
ORGANIZATION TOTAL	2	81,416		
STATE TOTAL	2	81,416		
<b>NEW JERSEY</b>				
<b>CAMDEN</b>				
SOUTHWEST NEW JERSEY CONSORTIUM FOR HEALTH INFORMATION SERVICES			ZIP CODE 08103	
THOMPSON, MARIE C .....			5G08 LM02132-02	20,025
THOMPSON, MARIE C .....			5G08 LM02132-03	15,295
ORGANIZATION TOTAL	2	35,320		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1976 and Transition Quarter—Continued**

Responsible official			Grant No.	Dollars
<b>NEW JERSEY—Con.</b>				
<b>NEWARK</b>				
COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY			ZIP CODE 07103	
ROSENSTEIN, PHILIP.....			5G08 LM02238-03	44,471
ORGANIZATION TOTAL	1	44,471		
STATE TOTAL	3	79,791		
<b>NORTH DAKOTA</b>				
<b>GRAND FORKS</b>				
UNIVERSITY OF NORTH DAKOTA			ZIP CODE 58201	
BANDY, CHARLES R.....			3G04 LM02010-03S1	6,926
ORGANIZATION TOTAL	1	6,926		
STATE TOTAL	1	6,926		
<b>SOUTH DAKOTA</b>				
<b>MOBRIDGE</b>				
MOBRIDGE COMMUNITY HOSPITAL			ZIP CODE 57001	
O'KEEFE, SHARON.....			1G07 LM02303-01A1	3,070
ORGANIZATION TOTAL	1	3,070		
<b>VERMILLION</b>				
UNIVERSITY OF SOUTH DAKOTA			ZIP CODE 57000	
BRENNEN, PATRICK W.....			5G08 LM02433-02	2,350
ORGANIZATION TOTAL	1	2,350		
STATE TOTAL	2	5,420		
<b>TEXAS</b>				
<b>CORPUS CHRISTI</b>				
MEMORIAL MEDICAL CENTER			ZIP CODE 78405	
WILLIAMS, DOROTHY.....			5G08 LM02519-02	31,115
ORGANIZATION TOTAL	1	31,115		
STATE TOTAL	1	31,115		
<b>VERMONT</b>				
<b>MORRISVILLE</b>				
COPLEY HOSPITAL			ZIP CODE 05601	
YACOVONE, BONNIE.....			1G07 LM02916-01	2,900
ORGANIZATION TOTAL	1	2,900		

**Table 5.—Medical Library Grants, by Area, Organization, and Responsible Official, Fiscal Year 1976 and Transition Quarter—Continued**

	Responsible official		Grant No.	Dollars
<b>VERMONT—Con.</b>				
STATE TOTAL	1	2,900		
<b>WASHINGTON</b>				
<b>BELLINGHAM</b>				
ST. LUKE'S GENERAL HOSPITAL	ZIP CODE 98225			
BARNHART, ROGER A.....			1G07 LM02818-01	3,432
ORGANIZATION TOTAL	1	3,432		
STATE TOTAL	1	3,432		
<b>WISCONSIN</b>				
<b>MADISON</b>				
UNIVERSITY OF WISCONSIN SYSTEM—UNIVERSITY OF WISCONSIN-MADISON	ZIP CODE 53706			
HOLTZ, VIRGINIA H.....			3G04 LM02027-03S1	16,618
ORGANIZATION TOTAL	1	16,618		
STATE TOTAL	1	16,618		





## APPENDIX

### Notes on Selected Organizations

Organizations appearing in more than one geographical location or requiring a clarifying comment are listed below in alphabetic sequence. Comments on certain foundations or on organizations whose names have changed since last year appear after the name of the organization. The tables in which the organizations may be found are shown in parentheses following their locations.

#### United States

Affiliated Hospitals Center--Boston (2 units), Mass. (2,3)  
Boston Health and Hospitals Department (may include awards to Mallory Institute of Pathology Foundation)--Boston (2 units), Mass. (2)  
City University of New York--New York (4 units), N.Y. (2,3)  
College of Medicine and Dentistry of New Jersey--Newark, Piscataway, N.J. (2,3,5)  
Cornell University--Ithaca, New York, N.Y. (2,3)  
Harvard University--Boston, Cambridge, Mass. (2,3,4)  
Indiana University System--Bloomington, Indianapolis, Ind. (2,3,5)  
Louisiana Health and Human Resources Administration (formerly shown as Louisiana Health and Social and Rehabilitative Services Administration)--Lafayette, La. (5)  
Louisiana State University System--Baton Rouge, New Orleans, La. (2,3)  
Mayo Foundation--Rochester (2 units), Minn. (2,3)  
New York State Department of Health (may include awards to Health Research, Inc.)--Albany, Buffalo, N.Y. (2,3)  
New York State Department of Mental Hygiene (may include awards to New York State Research Foundation for Mental Hygiene, Inc.)--Buffalo, N.Y. (2)  
Northwestern University--Chicago, Evanston, Ill. (2,3,4)  
Oregon State Higher Education System--Corvallis, Eugene, Portland, Oreg. (2,3)  
Pennsylvania State University--Hershey, University Park, Pa. (2,3)  
Rush-Presbyterian-St. Luke's Medical Center--Chicago (2 units), Ill. (2,3)  
Rutgers University--New Brunswick, Newark, N.J. (2,3)  
Sidney Farber Cancer Institute (formerly shown as Sidney Farber Cancer Center)--Boston, Mass. (2,3,4)  
State University of Florida System--Gainesville, Tallahassee, Fla. (2,3)  
State University of New York--Albany, Binghamton, Buffalo (2 units), New York, Stony Brook, Syracuse, N.Y. (2,3,4)  
Tulane University--Covington, New Orleans, La. (2,3)  
U.S. Department of Health, Education, and Welfare--Atlanta, Ga.; Baltimore, Bethesda, Rockville (2 units), Md.; Research Triangle Park, N.C. (2)

University of California System--Berkeley, Davis, Irvine, La Jolla, Los Angeles, Riverside, San Francisco, Santa Barbara, Santa Cruz, Calif. The unit in La Jolla may include awards to the Friends of Psychiatric Research of San Diego. (2,3,5)  
 University of Colorado--Boulder, Denver, Colo. (2,3)  
 University of Connecticut--Farmington, Storrs, Conn. (2,3)  
 University of Illinois System--Chicago (2 units), Urbana, Ill. (2,3)  
 University of Kansas--Kansas City, Lawrence, Kans. (2,3)  
 University of Maryland System--Baltimore, College Park, Md. (2,3)  
 University of Massachusetts System--Amherst, Worcester, Mass. (2,3)  
 University of Minnesota--Austin, Duluth, Minneapolis, Saint Paul, Minn. (2,3,5)  
 University of Mississippi--Jackson, University, Miss. (2,3)  
 University of Missouri System--Columbia, Kansas City, Mo. (2,3)  
 University of Nebraska System--Lincoln, Omaha, Nebr. (2,5)  
 University of North Carolina System--Chapel Hill, Raleigh, N.C. (2,3)  
 University of Oklahoma--Norman, Oklahoma City, Okla. (2,3)  
 University of Tennessee System--Knoxville, Memphis, Tenn. (2,3)  
 University of Texas System--Austin, Dallas, Galveston, Houston (2 units), San Antonio, Tex. (2,3)  
 University System of Georgia--Athens, Atlanta, Augusta, Ga. (2,3)  
 Utah State Higher Education System--Logan, Salt Lake City, Utah (2,3)  
 Veterans Administration--Los Angeles, Sepulveda, Calif.; Denver, Colo.; Hines, Ill.; Minneapolis, Minn. (2)

#### Other Countries

Max Planck Society for the Advancement of Science--Gottingen (2 units), Germany, Federal Republic of (2)  
 Medical Research Council--Cambridge (2 units), London, United Kingdom (2)



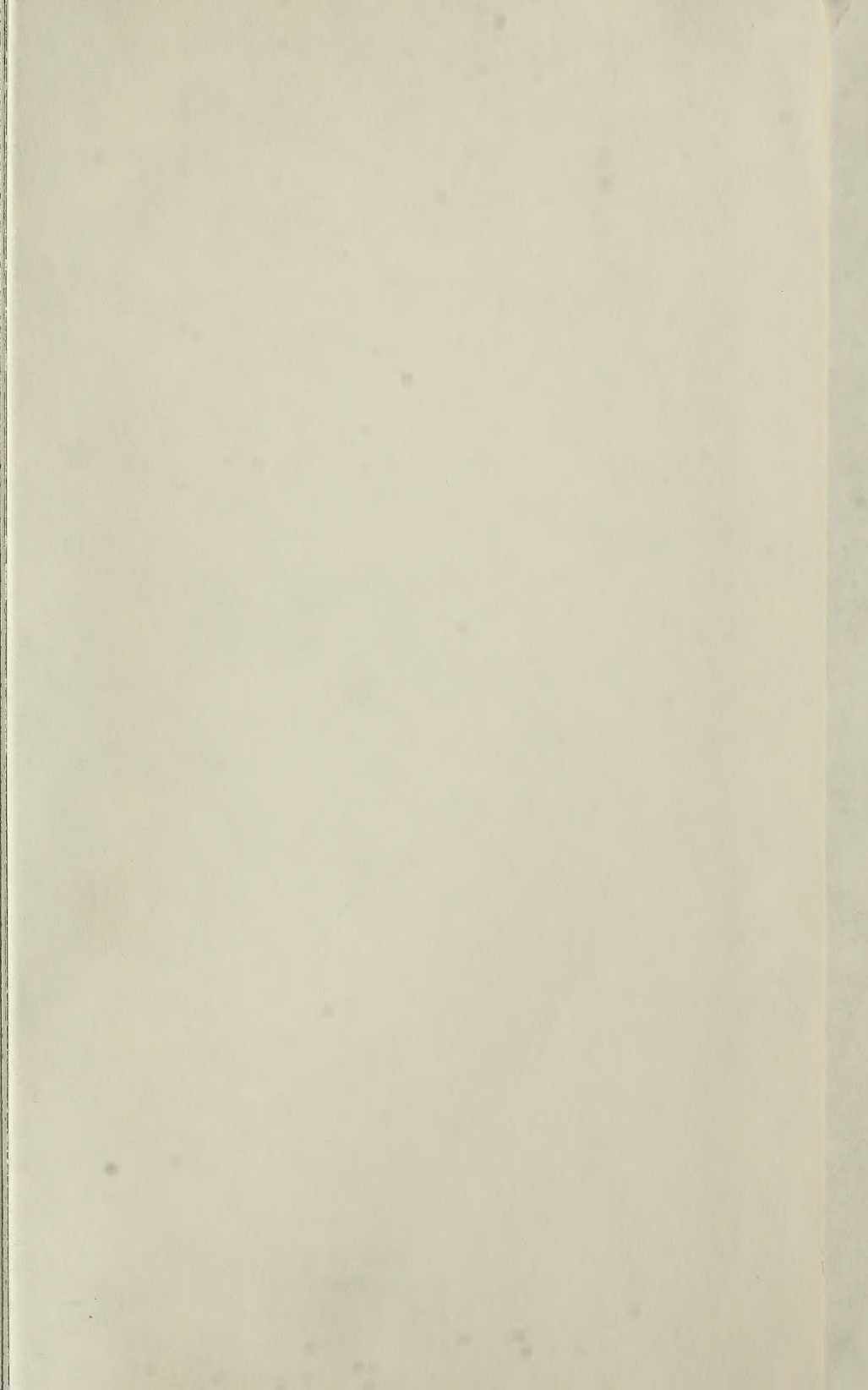




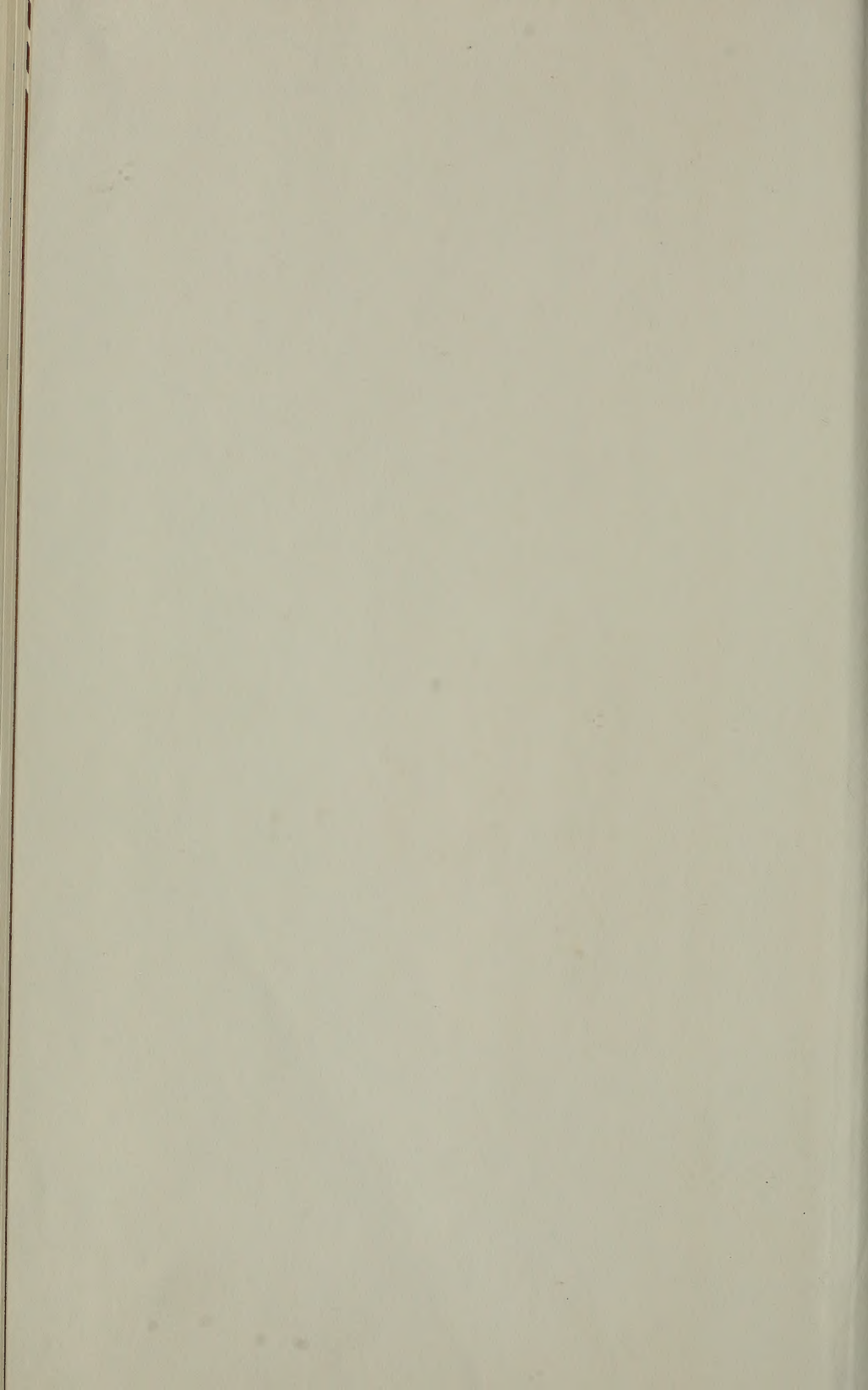
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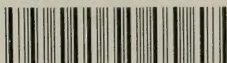
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